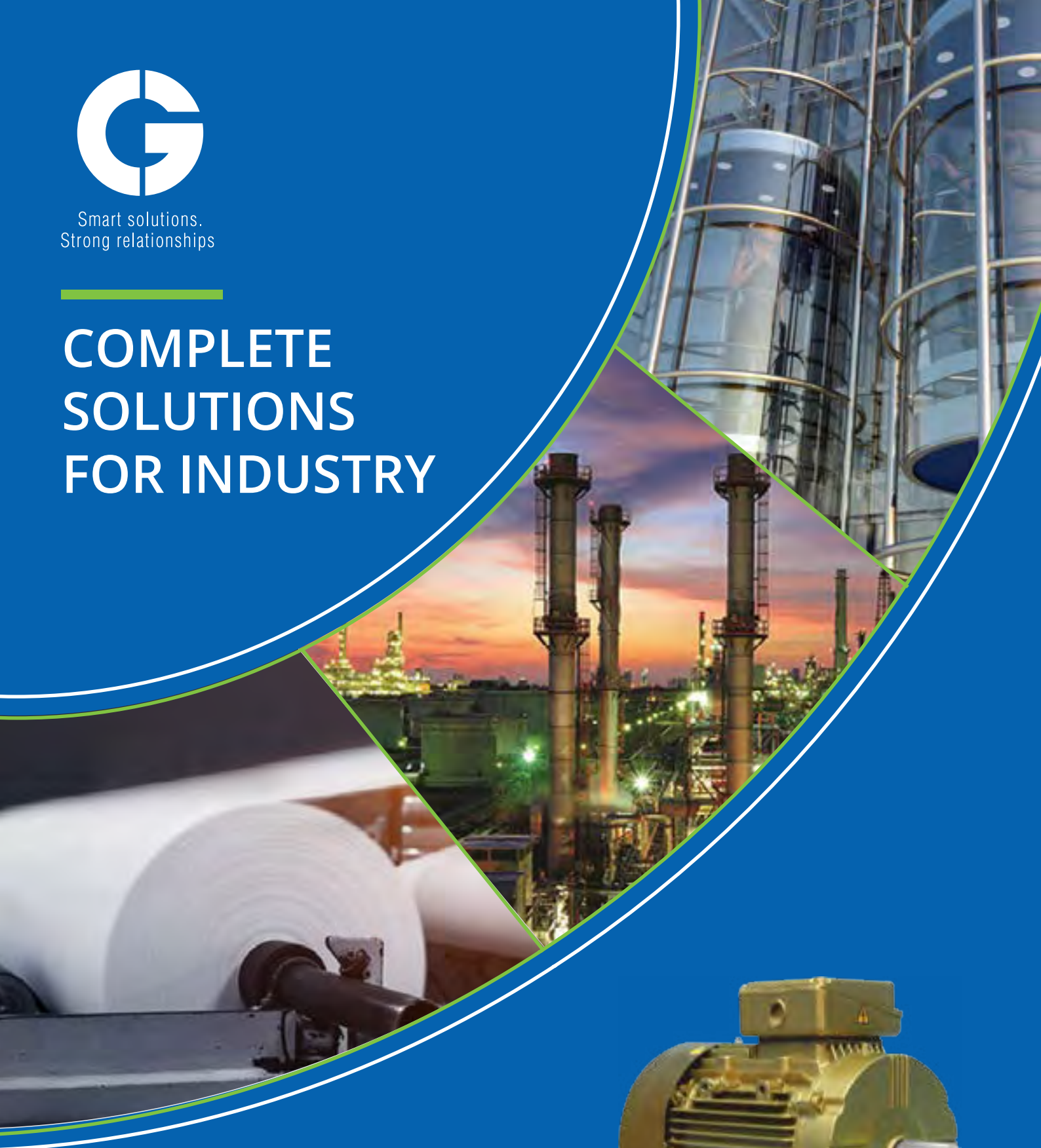




Smart solutions.  
Strong relationships

# COMPLETE SOLUTIONS FOR INDUSTRY



Price List

LTM14 Dt. 01<sup>st</sup> Sept 2020



## Our other optional features

- » Non standard shaft material, diameter & extension
- » Front bearing locking arrangement
- » SS Hardware, canopy, water flinger, non standard
- » Paint & paint shade, cable gland
- » Provision for hollow shaft encoder mounting High temperature grease
- » Reduced & special grades of vibration as per IS 12075 can be provided on request
- » Space heater for 280 frame & above
- » VPI for 280 Frame and above
- » FLP range we covered E80 to E400 frame
- » We have Approvals –UL, CE, ICEX, CSA, PESO, DGMS, BASEEFA



NABL and CSA certified test Lab.



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## SPECIAL FEATURES OFFERED FOR THREE PHASE AC MOTORS WITH CASH EXTRAS

### 1) ELECTRICAL FEATURES

| Sr.No | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Cash Extras in % of ALP or absolute value in INR whichever is Lower |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| 1.1   | <b>VOLTAGE</b><br>Base Voltage 415V/50Hz and 460V/60Hz<br>Other than above voltage (Dual Voltage is not available for 80 frame in FLP enclosure.)<br>Dual voltage: 220Δ/380Y or 380Δ/660Y & (1:√3 ratio)<br>Dual voltage: with ratio 1:2 Eg. 220/440(On Enquiry)<br>Triple voltage: (220/380/440) (On Enquiry)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | No Extras<br>5%<br>5%<br>5%<br>5%                                   |
| 1.2   | <b>FREQUENCY</b><br>Base Frequency of 50Hz or 60Hz<br>50/60 Hz motors for export                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | No Extras<br>No Extras                                              |
| 1.3   | <b>VARIABLE VOLTAGE/VARIABLE FREQUENCY OPERATED MOTORS:</b><br><b>Vacuum Pressure Impregnation Treatment(VPI)</b><br>(Also known as Power House Treatment)<br>63-250<br>280 & above<br><br>For 690V motors - 160 - 280 Frame and above in addition to VPI charges<br>For 690V motors - 315 & above Frame and above in addition to VPI charges<br>A) Variable Torque Operation - Standard frame sizes suitable for following specifications:<br>Variable torque operation, Type of application: pump/fan/blower<br>Load torque speed curve: parabolic. Speed range=10% to 100%<br>Harmonic contents < 5% & temperature rise limited to Class F rise<br><br>B) Constant Torque Operation - Standard frame sizes suitable for following specifications:<br>Speed range 50% to 100%, Temperature rise limited to Class F rise<br>Typical applications-Printing, Packaging, Paper industry or as per customer requirement<br>Frame size logic Double of kW rating<br>E.g. 11kW 4 pole Motor 11kW X 2 = 22kW.<br>Hence frame size is 180L.<br><b>For 315 &amp; Above to make motors suitable for VFD application, insulated bearing is must. Kindly refer cash extras for the same.</b> | 5%<br>No Extras<br><br>5%                                           |
| 1.4   | 9 LEAD / 12 LEADS (Frame ND 90 to 250)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5%                                                                  |
| 1.5   | AMBIENT TEMPERATURE -30 TO +65 C<br>For frame size contact nearest branch office                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | List price as per selected frame                                    |
| 1.6   | <b>NON STANDARD RV/RA FOR SLIPRING MOTORS (PI take prior confirmation for RV/RA)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 7.5%                                                                |

1) All % (percentage) figures are to be loaded on list price

2) All Rs. Figures to be added on net price

3) Inspection charges are subject to GST

4) For any Non-std features / Accessories not explicitly covered in this price list, please contact to nearest branch office.



## SPECIAL FEATURES OFFERED FOR THREE PHASE AC MOTORS WITH CASH EXTRAS

### 2. MECHANICAL FEATURES:

| Sr.NO | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Cash Extras in % of ALP or absolute value in INR whichever is Lower                                                                                |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 2.1   | <b>MOUNTING</b><br>All types of mounting other than B3 (Foot) for all types of motors<br>Extra loading on Foot mounted ALP<br>Frames<br>63 to 160<br>180 to 450<br>for 400 only B3,B35 & V1 is possible to offer<br>For 450/500 only B3 & B35 is possible to offer<br>Please refer catalogue baseline or contact CG branch office                                                                                                                                                                               | 3%<br>5%<br>5%<br>5%                                                                                                                               |
| 2.2   | <b>FORCED COOLING ARRANGEMENT * (ONLY SAFE AREA MOTORS)</b><br><b>NOT APPLICABLE FOR 2 POLE MOTORS</b><br>ND 160 / 180<br>ND 200 / 225<br>ND 250<br>ND 280<br>ND 315 S/M/L<br>ND 355 / NG355<br>ND 400 / NG400 / ND450 / ND500                                                                                                                                                                                                                                                                                  | Rs 6000/-<br>Rs 14500/-<br>Rs 22000/-<br>Rs 27000/-<br>Rs 30000/-<br>Rs 37000/-<br>Rs 50000/-                                                      |
| 2.3   | <b>SPECIAL FIXING DIMENSIONS OTHER THAN IS 1231/2223 / IEC 60072.</b><br>To be offered for TEFC SCR / SR motors for frame 160 and above.<br>(Shall be offered with fabricated stator body).<br>Please refer to CG branch office for concurrence                                                                                                                                                                                                                                                                 | 20 % ALP<br>Extra 4 weeks delivery over STD delivery time                                                                                          |
| 2.4   | <b>Fabricated stator body but fixing dimensions as per IS for frame 160 &amp; above (ND frames only)</b>                                                                                                                                                                                                                                                                                                                                                                                                        | 20%<br>(Delivery 4 weeks extra to STD)                                                                                                             |
| 2.5   | <b>DOUBLE TERMINAL BOX FOR SLIPRING MOTORS</b><br>Frames 315, 355 , 400 & 450 STD TEFC                                                                                                                                                                                                                                                                                                                                                                                                                          | Rs. 7000/-                                                                                                                                         |
| 2.6   | <b>FLYING LEADS ( 1 meter &amp; 6 leads), W/O T. Box</b><br>Frames ND 80 to ND 355<br>For extra TB(Loose)                                                                                                                                                                                                                                                                                                                                                                                                       | 5%<br>3%                                                                                                                                           |
| 2.7   | <b>SPECIAL SHAFT EXTENSION</b><br>Standard double shaft extension (DE/NDE identical)<br>Non standard single / double shaft with diameter and length less than standard dimensions (This feature is not in FLP SR and SPDP SR enclosures)<br>For D or E more than IS, please refer to division<br>Taper single shaft extension taper 1:10<br>Taper double shaft extension taper 1:10<br>For taper other than above,<br>Special shaft material EN 24 grade<br>Stainless steel shaft (Upto & including 180 frames) | 5%<br>10%<br>5%<br>10%<br>Refer to CG Sales office<br>10% extra price & extra delivery of 4 weeks.<br>15% extra price & extra delivery of 4 weeks. |

1) All % (percentage) figures are to be loaded on list price

2) All Rs. Figures to be added on nett price

3) Inspection charges are subject to GST

4) For any Non-std features / Accessories not explicitly covered in this price list, please contact to nearest branch office.

### SPECIAL FEATURES OFFERED FOR THREE PHASE AC MOTORS WITH CASH EXTRAS

## 2. MECHANICAL FEATURES:

| Sr.NO   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Cash Extras in % of ALP or absolute value in INR whichever is Lower                                                                    |             |                       |       |                    |                    |       |                      |                    |       |                    |                     |       |                     |                    |       |       |       |                     |                     |       |                       |                       |         |                     |                     |         |                     |                |         |                     |                                                                                                       |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|-------|--------------------|--------------------|-------|----------------------|--------------------|-------|--------------------|---------------------|-------|---------------------|--------------------|-------|-------|-------|---------------------|---------------------|-------|-----------------------|-----------------------|---------|---------------------|---------------------|---------|---------------------|----------------|---------|---------------------|-------------------------------------------------------------------------------------------------------|
| 2.8     | Degree of protection as per IEC 60034-5<br>IP 66, IP65, IP56 for TEFC SCR motors in frame 63-500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5%                                                                                                                                     |             |                       |       |                    |                    |       |                      |                    |       |                    |                     |       |                     |                    |       |       |       |                     |                     |       |                       |                       |         |                     |                     |         |                     |                |         |                     |                                                                                                       |
| 2.9     | <p><b>CUSTOM SIZE FABRICATED TERMINAL BOX</b><br/>One size higher terminal box can be supplied for TEFC SCR motors as per table below</p> <table border="1"> <thead> <tr> <th>Frame</th><th>with STD TB</th><th>One size higher T Box</th></tr> </thead> <tbody> <tr> <td>ND160</td><td>2R x 3C x 35 sq mm</td><td>2R x 3C x 95 sq mm</td></tr> <tr> <td>ND180</td><td>2R x 3.5C x 35 sq mm</td><td>2R x 3C x 95 sq mm</td></tr> <tr> <td>ND200</td><td>2R x 3C x 95 sq mm</td><td>2R x 3C x 150 sq mm</td></tr> <tr> <td>ND225</td><td rowspan="3">2R x 3C x 150 sq mm</td><td rowspan="3">2R x 3C x 240sq mm</td></tr> <tr> <td>ND250</td></tr> <tr> <td>ND280</td></tr> <tr> <td>ND315</td><td>2R x 3C x 185 sq mm</td><td>2R x 3C x 240 sq mm</td></tr> <tr> <td>ND355</td><td>2R x 3.5C x 240 sq mm</td><td>2R x 3.5C x 300 sq mm</td></tr> <tr> <td>ND355LX</td><td>2R x 3C x 240 sq mm</td><td>2R x 3C x 300 sq mm</td></tr> <tr> <td>ND400LX</td><td>2R x 3C x 400 sq mm</td><td rowspan="2">Not Applicable</td></tr> <tr> <td>NG400LX</td><td>4R x 3C x 400 sq mm</td></tr> </tbody> </table> <p>Refer DPA for 2 size &amp; 3 size higher cable size</p> | Frame                                                                                                                                  | with STD TB | One size higher T Box | ND160 | 2R x 3C x 35 sq mm | 2R x 3C x 95 sq mm | ND180 | 2R x 3.5C x 35 sq mm | 2R x 3C x 95 sq mm | ND200 | 2R x 3C x 95 sq mm | 2R x 3C x 150 sq mm | ND225 | 2R x 3C x 150 sq mm | 2R x 3C x 240sq mm | ND250 | ND280 | ND315 | 2R x 3C x 185 sq mm | 2R x 3C x 240 sq mm | ND355 | 2R x 3.5C x 240 sq mm | 2R x 3.5C x 300 sq mm | ND355LX | 2R x 3C x 240 sq mm | 2R x 3C x 300 sq mm | ND400LX | 2R x 3C x 400 sq mm | Not Applicable | NG400LX | 4R x 3C x 400 sq mm | <p>One size higher to be loaded 3%</p> <p>for two size higher - 5%<br/>For three size higher - 8%</p> |
| Frame   | with STD TB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | One size higher T Box                                                                                                                  |             |                       |       |                    |                    |       |                      |                    |       |                    |                     |       |                     |                    |       |       |       |                     |                     |       |                       |                       |         |                     |                     |         |                     |                |         |                     |                                                                                                       |
| ND160   | 2R x 3C x 35 sq mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2R x 3C x 95 sq mm                                                                                                                     |             |                       |       |                    |                    |       |                      |                    |       |                    |                     |       |                     |                    |       |       |       |                     |                     |       |                       |                       |         |                     |                     |         |                     |                |         |                     |                                                                                                       |
| ND180   | 2R x 3.5C x 35 sq mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2R x 3C x 95 sq mm                                                                                                                     |             |                       |       |                    |                    |       |                      |                    |       |                    |                     |       |                     |                    |       |       |       |                     |                     |       |                       |                       |         |                     |                     |         |                     |                |         |                     |                                                                                                       |
| ND200   | 2R x 3C x 95 sq mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2R x 3C x 150 sq mm                                                                                                                    |             |                       |       |                    |                    |       |                      |                    |       |                    |                     |       |                     |                    |       |       |       |                     |                     |       |                       |                       |         |                     |                     |         |                     |                |         |                     |                                                                                                       |
| ND225   | 2R x 3C x 150 sq mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2R x 3C x 240sq mm                                                                                                                     |             |                       |       |                    |                    |       |                      |                    |       |                    |                     |       |                     |                    |       |       |       |                     |                     |       |                       |                       |         |                     |                     |         |                     |                |         |                     |                                                                                                       |
| ND250   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                        |             |                       |       |                    |                    |       |                      |                    |       |                    |                     |       |                     |                    |       |       |       |                     |                     |       |                       |                       |         |                     |                     |         |                     |                |         |                     |                                                                                                       |
| ND280   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                        |             |                       |       |                    |                    |       |                      |                    |       |                    |                     |       |                     |                    |       |       |       |                     |                     |       |                       |                       |         |                     |                     |         |                     |                |         |                     |                                                                                                       |
| ND315   | 2R x 3C x 185 sq mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2R x 3C x 240 sq mm                                                                                                                    |             |                       |       |                    |                    |       |                      |                    |       |                    |                     |       |                     |                    |       |       |       |                     |                     |       |                       |                       |         |                     |                     |         |                     |                |         |                     |                                                                                                       |
| ND355   | 2R x 3.5C x 240 sq mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2R x 3.5C x 300 sq mm                                                                                                                  |             |                       |       |                    |                    |       |                      |                    |       |                    |                     |       |                     |                    |       |       |       |                     |                     |       |                       |                       |         |                     |                     |         |                     |                |         |                     |                                                                                                       |
| ND355LX | 2R x 3C x 240 sq mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2R x 3C x 300 sq mm                                                                                                                    |             |                       |       |                    |                    |       |                      |                    |       |                    |                     |       |                     |                    |       |       |       |                     |                     |       |                       |                       |         |                     |                     |         |                     |                |         |                     |                                                                                                       |
| ND400LX | 2R x 3C x 400 sq mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Not Applicable                                                                                                                         |             |                       |       |                    |                    |       |                      |                    |       |                    |                     |       |                     |                    |       |       |       |                     |                     |       |                       |                       |         |                     |                     |         |                     |                |         |                     |                                                                                                       |
| NG400LX | 4R x 3C x 400 sq mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                        |             |                       |       |                    |                    |       |                      |                    |       |                    |                     |       |                     |                    |       |       |       |                     |                     |       |                       |                       |         |                     |                     |         |                     |                |         |                     |                                                                                                       |
| 2.10    | <p><b>FAULT LEVEL : 50 kA for 0.25 sec. with certificate</b><br/>Please refer to division for higher fault level (160 &amp; above frame)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Rs. 50000/-                                                                                                                            |             |                       |       |                    |                    |       |                      |                    |       |                    |                     |       |                     |                    |       |       |       |                     |                     |       |                       |                       |         |                     |                     |         |                     |                |         |                     |                                                                                                       |
| 2.11    | <p><b>SPECIAL BEARINGS</b><br/>Online greasing arrangement for frame 160-225 (Our standard bearings are greased for life.) (To be agreed for projects only if Sealed bearings are not acceptable)<br/>Regreasable bearings are provided as a standard for Frame 250 and above.</p> <p>C4 clearance bearing in frame 160-225 ( 2 Pole Only)</p> <p>*For FLP Motors regreasable bearing can be provided from E160 frame and onwards.<br/>Angular contact for 160-450 frames. Please refer to division.</p> <p>Bearing Suitable for 40°C</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <p>Rs. 1000/- per motor and 4 weeks extra delivery</p> <p>Rs. 3300/- per motor and 10 weeks extra delivery</p> <p>VPI Charges +10%</p> |             |                       |       |                    |                    |       |                      |                    |       |                    |                     |       |                     |                    |       |       |       |                     |                     |       |                       |                       |         |                     |                     |         |                     |                |         |                     |                                                                                                       |

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## SPECIAL FEATURES OFFERED FOR THREE PHASE AC MOTORS WITH CASH EXTRAS

### 2. MECHANICAL FEATURES:

| Sr.NO | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Cash Extras in % of ALP or absolute value in INR whichever is Lower           |              |            |        |            |      |       |           |      |      |      |       |          |      |      |      |       |               |      |      |      |       |            |      |      |      |       |         |      |      |      |       |                    |      |      |      |       |         |    |      |      |       |      |      |      |  |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------|------------|--------|------------|------|-------|-----------|------|------|------|-------|----------|------|------|------|-------|---------------|------|------|------|-------|------------|------|------|------|-------|---------|------|------|------|-------|--------------------|------|------|------|-------|---------|----|------|------|-------|------|------|------|--|
| 2.13  | <p>INSULATED BEARINGS AT NON DRIVING END (NDE)<br/>Can be provided for 160-225 frame at 20000/-</p> <p>NDE BEARING Selection</p> <table><tr><th>Type</th><th>Price in Rs.</th><th>Frame</th><th>2 pole</th><th>4Pole &amp; up</th></tr><tr><td>6314</td><td>30000</td><td>ND250M/MX</td><td>6314</td><td>6314</td></tr><tr><td>6315</td><td>30000</td><td>ND280S/M</td><td>6314</td><td>6318</td></tr><tr><td>6316</td><td>30000</td><td>ND315S/M/L/LX</td><td>6315</td><td>6319</td></tr><tr><td>6318</td><td>30000</td><td>ND355S/M/L</td><td>6316</td><td>6319</td></tr><tr><td>6319</td><td>30200</td><td>ND355LX</td><td>6316</td><td>6322</td></tr><tr><td>6322</td><td>38500</td><td>E355/ND400LX/NG355</td><td>6318</td><td>6322</td></tr><tr><td>6324</td><td>55000</td><td>ND450LX</td><td>NA</td><td>6326</td></tr><tr><td>6326</td><td>86500</td><td>E400</td><td>6318</td><td>6324</td></tr></table> | Type                                                                          | Price in Rs. | Frame      | 2 pole | 4Pole & up | 6314 | 30000 | ND250M/MX | 6314 | 6314 | 6315 | 30000 | ND280S/M | 6314 | 6318 | 6316 | 30000 | ND315S/M/L/LX | 6315 | 6319 | 6318 | 30000 | ND355S/M/L | 6316 | 6319 | 6319 | 30200 | ND355LX | 6316 | 6322 | 6322 | 38500 | E355/ND400LX/NG355 | 6318 | 6322 | 6324 | 55000 | ND450LX | NA | 6326 | 6326 | 86500 | E400 | 6318 | 6324 |  |
| Type  | Price in Rs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Frame                                                                         | 2 pole       | 4Pole & up |        |            |      |       |           |      |      |      |       |          |      |      |      |       |               |      |      |      |       |            |      |      |      |       |         |      |      |      |       |                    |      |      |      |       |         |    |      |      |       |      |      |      |  |
| 6314  | 30000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ND250M/MX                                                                     | 6314         | 6314       |        |            |      |       |           |      |      |      |       |          |      |      |      |       |               |      |      |      |       |            |      |      |      |       |         |      |      |      |       |                    |      |      |      |       |         |    |      |      |       |      |      |      |  |
| 6315  | 30000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ND280S/M                                                                      | 6314         | 6318       |        |            |      |       |           |      |      |      |       |          |      |      |      |       |               |      |      |      |       |            |      |      |      |       |         |      |      |      |       |                    |      |      |      |       |         |    |      |      |       |      |      |      |  |
| 6316  | 30000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ND315S/M/L/LX                                                                 | 6315         | 6319       |        |            |      |       |           |      |      |      |       |          |      |      |      |       |               |      |      |      |       |            |      |      |      |       |         |      |      |      |       |                    |      |      |      |       |         |    |      |      |       |      |      |      |  |
| 6318  | 30000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ND355S/M/L                                                                    | 6316         | 6319       |        |            |      |       |           |      |      |      |       |          |      |      |      |       |               |      |      |      |       |            |      |      |      |       |         |      |      |      |       |                    |      |      |      |       |         |    |      |      |       |      |      |      |  |
| 6319  | 30200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ND355LX                                                                       | 6316         | 6322       |        |            |      |       |           |      |      |      |       |          |      |      |      |       |               |      |      |      |       |            |      |      |      |       |         |      |      |      |       |                    |      |      |      |       |         |    |      |      |       |      |      |      |  |
| 6322  | 38500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | E355/ND400LX/NG355                                                            | 6318         | 6322       |        |            |      |       |           |      |      |      |       |          |      |      |      |       |               |      |      |      |       |            |      |      |      |       |         |      |      |      |       |                    |      |      |      |       |         |    |      |      |       |      |      |      |  |
| 6324  | 55000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ND450LX                                                                       | NA           | 6326       |        |            |      |       |           |      |      |      |       |          |      |      |      |       |               |      |      |      |       |            |      |      |      |       |         |      |      |      |       |                    |      |      |      |       |         |    |      |      |       |      |      |      |  |
| 6326  | 86500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | E400                                                                          | 6318         | 6324       |        |            |      |       |           |      |      |      |       |          |      |      |      |       |               |      |      |      |       |            |      |      |      |       |         |      |      |      |       |                    |      |      |      |       |         |    |      |      |       |      |      |      |  |
| 2.14  | <p>ROLLER BEARING ON DE SIDE only for V Belt application (Not applicable up to 132 frame )<br/>For 160 to 225 frames online greasing charges to be added extra over roller bearing cash extras.<br/>FRAMES 160 TO 180<br/>FRAMES 200 TO 250<br/>FRAMES 280 TO 315<br/>FRAME 355<br/>FRAMES 400 TO 500<br/>* For FLP motors roller bearings shall be provided from E160 and above frames.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <p>Rs. 1780/-<br/>Rs. 3300/-<br/>Rs. 4600/-<br/>Rs. 5750/-<br/>Rs. 8640/-</p> |              |            |        |            |      |       |           |      |      |      |       |          |      |      |      |       |               |      |      |      |       |            |      |      |      |       |         |      |      |      |       |                    |      |      |      |       |         |    |      |      |       |      |      |      |  |
| 2.15  | <p>NOISE LEVEL (As per IS 12065.)<br/>As per IS 12065.<br/>&lt;= 85 dB(A) @ 1 m at no load for 4 pole motors and above<br/>&lt;= 90 dB (A) @ 1 m at no load for all 2 pole motors.<br/>For lower noise level please refer to division</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <p>No extra<br/>3%<br/>3%</p>                                                 |              |            |        |            |      |       |           |      |      |      |       |          |      |      |      |       |               |      |      |      |       |            |      |      |      |       |         |      |      |      |       |                    |      |      |      |       |         |    |      |      |       |      |      |      |  |
| 2.16  | <p>Tacho (encoder) mounting arrangement for frame 160- aboveTEFC SCR Motors<br/>For other frames refer to division</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <p>5% OR Rs 7500 whichever is lower</p>                                       |              |            |        |            |      |       |           |      |      |      |       |          |      |      |      |       |               |      |      |      |       |            |      |      |      |       |         |      |      |      |       |                    |      |      |      |       |         |    |      |      |       |      |      |      |  |

1) All % (percentage) figures are to be loaded on list price

2) All Rs. Figures to be added on net price

3) Inspection charges are subject to GST

4) For any Non-std features / Accessories not explicitly covered in this price list, please contact to nearest branch office.

## SPECIAL FEATURES OFFERED FOR THREE PHASE AC MOTORS WITH CASH EXTRAS

### 2. MECHANICAL FEATURES:

| Sr.NO                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Cash Extras in % of ALP or absolute value in INR whichever is Lower                            |                    |                     |                     |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |         |     |    |    |       |    |         |     |    |    |       |    |         |     |    |     |       |     |         |     |    |     |       |     |         |                       |  |  |  |  |       |       |            |                   |                     |   |    |   |   |        |   |    |    |    |        |   |     |    |    |        |   |     |    |    |        |   |     |    |     |         |   |      |    |     |         |   |      |    |     |         |   |     |    |     |         |   |     |    |     |         |     |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------|---------------------|---------------------|--|--|--|-------------------|--|--|---------------|--|-------|------------|-----------------|--------------------|-----------------|---------------------|----|----|----|-------|----|---------|-----|----|----|-------|----|---------|-----|----|----|-------|----|---------|-----|----|-----|-------|-----|---------|-----|----|-----|-------|-----|---------|-----------------------|--|--|--|--|-------|-------|------------|-------------------|---------------------|---|----|---|---|--------|---|----|----|----|--------|---|-----|----|----|--------|---|-----|----|----|--------|---|-----|----|-----|---------|---|------|----|-----|---------|---|------|----|-----|---------|---|-----|----|-----|---------|---|-----|----|-----|---------|-----|
| 2.17                  | <p><b>BRAKE MOTORS</b><br/>Brake Mounting Arrangement if brakes in CG scope (Only brake mounting arrangement will not be provided)<br/><b>In addition Refer the following Brake kit prices to be added in respective type of Motor Net Price</b></p> <table><tr><th colspan="6">Flameproof Motors</th></tr><tr><th></th><th colspan="3">Gas Group IIA/IIB</th><th colspan="2">Gas Group IIC</th></tr><tr><th>Frame</th><th>Brake size</th><th>Brake Torque NM</th><th>Brake &amp; kit prices</th><th>Brake Torque NM</th><th>Brake kit Net price</th></tr><tr><td>90</td><td>10</td><td>16</td><td>16000</td><td>16</td><td>20000/-</td></tr><tr><td>100</td><td>12</td><td>32</td><td>21000</td><td>32</td><td>23750/-</td></tr><tr><td>112</td><td>14</td><td>60</td><td>23000</td><td>60</td><td>26250/-</td></tr><tr><td>132</td><td>16</td><td>100</td><td>30000</td><td>100</td><td>33250/-</td></tr><tr><td>160</td><td>16</td><td>100</td><td>31000</td><td>100</td><td>37000/-</td></tr></table> <p><b>CRANE DUTY BRAKE MOTOR</b><br/>Please add Brake kit Price to S4 duty IE2 Prices after discount.</p> <table><tr><th colspan="5">Non-Flameproof Motors</th></tr><tr><th>Sr No</th><th>Frame</th><th>Brake Size</th><th>Brake Torque (Nm)</th><th>Brake Kit Net Price</th></tr><tr><td>1</td><td>80</td><td>8</td><td>8</td><td>4800/-</td></tr><tr><td>2</td><td>90</td><td>10</td><td>16</td><td>6600/-</td></tr><tr><td>3</td><td>100</td><td>12</td><td>32</td><td>8575/-</td></tr><tr><td>4</td><td>112</td><td>14</td><td>60</td><td>9800/-</td></tr><tr><td>5</td><td>132</td><td>16</td><td>100</td><td>13475/-</td></tr><tr><td>6</td><td>160M</td><td>18</td><td>150</td><td>19475/-</td></tr><tr><td>7</td><td>160L</td><td>20</td><td>260</td><td>25200/-</td></tr><tr><td>8</td><td>180</td><td>25</td><td>400</td><td>35150/-</td></tr><tr><td>9</td><td>200</td><td>25</td><td>400</td><td>44220/-</td></tr></table> | Flameproof Motors                                                                              |                    |                     |                     |  |  |  | Gas Group IIA/IIB |  |  | Gas Group IIC |  | Frame | Brake size | Brake Torque NM | Brake & kit prices | Brake Torque NM | Brake kit Net price | 90 | 10 | 16 | 16000 | 16 | 20000/- | 100 | 12 | 32 | 21000 | 32 | 23750/- | 112 | 14 | 60 | 23000 | 60 | 26250/- | 132 | 16 | 100 | 30000 | 100 | 33250/- | 160 | 16 | 100 | 31000 | 100 | 37000/- | Non-Flameproof Motors |  |  |  |  | Sr No | Frame | Brake Size | Brake Torque (Nm) | Brake Kit Net Price | 1 | 80 | 8 | 8 | 4800/- | 2 | 90 | 10 | 16 | 6600/- | 3 | 100 | 12 | 32 | 8575/- | 4 | 112 | 14 | 60 | 9800/- | 5 | 132 | 16 | 100 | 13475/- | 6 | 160M | 18 | 150 | 19475/- | 7 | 160L | 20 | 260 | 25200/- | 8 | 180 | 25 | 400 | 35150/- | 9 | 200 | 25 | 400 | 44220/- | 10% |
| Flameproof Motors     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                |                    |                     |                     |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |         |     |    |    |       |    |         |     |    |    |       |    |         |     |    |     |       |     |         |     |    |     |       |     |         |                       |  |  |  |  |       |       |            |                   |                     |   |    |   |   |        |   |    |    |    |        |   |     |    |    |        |   |     |    |    |        |   |     |    |     |         |   |      |    |     |         |   |      |    |     |         |   |     |    |     |         |   |     |    |     |         |     |
|                       | Gas Group IIA/IIB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                |                    | Gas Group IIC       |                     |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |         |     |    |    |       |    |         |     |    |    |       |    |         |     |    |     |       |     |         |     |    |     |       |     |         |                       |  |  |  |  |       |       |            |                   |                     |   |    |   |   |        |   |    |    |    |        |   |     |    |    |        |   |     |    |    |        |   |     |    |     |         |   |      |    |     |         |   |      |    |     |         |   |     |    |     |         |   |     |    |     |         |     |
| Frame                 | Brake size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Brake Torque NM                                                                                | Brake & kit prices | Brake Torque NM     | Brake kit Net price |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |         |     |    |    |       |    |         |     |    |    |       |    |         |     |    |     |       |     |         |     |    |     |       |     |         |                       |  |  |  |  |       |       |            |                   |                     |   |    |   |   |        |   |    |    |    |        |   |     |    |    |        |   |     |    |    |        |   |     |    |     |         |   |      |    |     |         |   |      |    |     |         |   |     |    |     |         |   |     |    |     |         |     |
| 90                    | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 16                                                                                             | 16000              | 16                  | 20000/-             |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |         |     |    |    |       |    |         |     |    |    |       |    |         |     |    |     |       |     |         |     |    |     |       |     |         |                       |  |  |  |  |       |       |            |                   |                     |   |    |   |   |        |   |    |    |    |        |   |     |    |    |        |   |     |    |    |        |   |     |    |     |         |   |      |    |     |         |   |      |    |     |         |   |     |    |     |         |   |     |    |     |         |     |
| 100                   | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 32                                                                                             | 21000              | 32                  | 23750/-             |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |         |     |    |    |       |    |         |     |    |    |       |    |         |     |    |     |       |     |         |     |    |     |       |     |         |                       |  |  |  |  |       |       |            |                   |                     |   |    |   |   |        |   |    |    |    |        |   |     |    |    |        |   |     |    |    |        |   |     |    |     |         |   |      |    |     |         |   |      |    |     |         |   |     |    |     |         |   |     |    |     |         |     |
| 112                   | 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 60                                                                                             | 23000              | 60                  | 26250/-             |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |         |     |    |    |       |    |         |     |    |    |       |    |         |     |    |     |       |     |         |     |    |     |       |     |         |                       |  |  |  |  |       |       |            |                   |                     |   |    |   |   |        |   |    |    |    |        |   |     |    |    |        |   |     |    |    |        |   |     |    |     |         |   |      |    |     |         |   |      |    |     |         |   |     |    |     |         |   |     |    |     |         |     |
| 132                   | 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 100                                                                                            | 30000              | 100                 | 33250/-             |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |         |     |    |    |       |    |         |     |    |    |       |    |         |     |    |     |       |     |         |     |    |     |       |     |         |                       |  |  |  |  |       |       |            |                   |                     |   |    |   |   |        |   |    |    |    |        |   |     |    |    |        |   |     |    |    |        |   |     |    |     |         |   |      |    |     |         |   |      |    |     |         |   |     |    |     |         |   |     |    |     |         |     |
| 160                   | 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 100                                                                                            | 31000              | 100                 | 37000/-             |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |         |     |    |    |       |    |         |     |    |    |       |    |         |     |    |     |       |     |         |     |    |     |       |     |         |                       |  |  |  |  |       |       |            |                   |                     |   |    |   |   |        |   |    |    |    |        |   |     |    |    |        |   |     |    |    |        |   |     |    |     |         |   |      |    |     |         |   |      |    |     |         |   |     |    |     |         |   |     |    |     |         |     |
| Non-Flameproof Motors |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                |                    |                     |                     |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |         |     |    |    |       |    |         |     |    |    |       |    |         |     |    |     |       |     |         |     |    |     |       |     |         |                       |  |  |  |  |       |       |            |                   |                     |   |    |   |   |        |   |    |    |    |        |   |     |    |    |        |   |     |    |    |        |   |     |    |     |         |   |      |    |     |         |   |      |    |     |         |   |     |    |     |         |   |     |    |     |         |     |
| Sr No                 | Frame                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Brake Size                                                                                     | Brake Torque (Nm)  | Brake Kit Net Price |                     |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |         |     |    |    |       |    |         |     |    |    |       |    |         |     |    |     |       |     |         |     |    |     |       |     |         |                       |  |  |  |  |       |       |            |                   |                     |   |    |   |   |        |   |    |    |    |        |   |     |    |    |        |   |     |    |    |        |   |     |    |     |         |   |      |    |     |         |   |      |    |     |         |   |     |    |     |         |   |     |    |     |         |     |
| 1                     | 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 8                                                                                              | 8                  | 4800/-              |                     |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |         |     |    |    |       |    |         |     |    |    |       |    |         |     |    |     |       |     |         |     |    |     |       |     |         |                       |  |  |  |  |       |       |            |                   |                     |   |    |   |   |        |   |    |    |    |        |   |     |    |    |        |   |     |    |    |        |   |     |    |     |         |   |      |    |     |         |   |      |    |     |         |   |     |    |     |         |   |     |    |     |         |     |
| 2                     | 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 10                                                                                             | 16                 | 6600/-              |                     |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |         |     |    |    |       |    |         |     |    |    |       |    |         |     |    |     |       |     |         |     |    |     |       |     |         |                       |  |  |  |  |       |       |            |                   |                     |   |    |   |   |        |   |    |    |    |        |   |     |    |    |        |   |     |    |    |        |   |     |    |     |         |   |      |    |     |         |   |      |    |     |         |   |     |    |     |         |   |     |    |     |         |     |
| 3                     | 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12                                                                                             | 32                 | 8575/-              |                     |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |         |     |    |    |       |    |         |     |    |    |       |    |         |     |    |     |       |     |         |     |    |     |       |     |         |                       |  |  |  |  |       |       |            |                   |                     |   |    |   |   |        |   |    |    |    |        |   |     |    |    |        |   |     |    |    |        |   |     |    |     |         |   |      |    |     |         |   |      |    |     |         |   |     |    |     |         |   |     |    |     |         |     |
| 4                     | 112                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 14                                                                                             | 60                 | 9800/-              |                     |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |         |     |    |    |       |    |         |     |    |    |       |    |         |     |    |     |       |     |         |     |    |     |       |     |         |                       |  |  |  |  |       |       |            |                   |                     |   |    |   |   |        |   |    |    |    |        |   |     |    |    |        |   |     |    |    |        |   |     |    |     |         |   |      |    |     |         |   |      |    |     |         |   |     |    |     |         |   |     |    |     |         |     |
| 5                     | 132                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 16                                                                                             | 100                | 13475/-             |                     |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |         |     |    |    |       |    |         |     |    |    |       |    |         |     |    |     |       |     |         |     |    |     |       |     |         |                       |  |  |  |  |       |       |            |                   |                     |   |    |   |   |        |   |    |    |    |        |   |     |    |    |        |   |     |    |    |        |   |     |    |     |         |   |      |    |     |         |   |      |    |     |         |   |     |    |     |         |   |     |    |     |         |     |
| 6                     | 160M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 18                                                                                             | 150                | 19475/-             |                     |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |         |     |    |    |       |    |         |     |    |    |       |    |         |     |    |     |       |     |         |     |    |     |       |     |         |                       |  |  |  |  |       |       |            |                   |                     |   |    |   |   |        |   |    |    |    |        |   |     |    |    |        |   |     |    |    |        |   |     |    |     |         |   |      |    |     |         |   |      |    |     |         |   |     |    |     |         |   |     |    |     |         |     |
| 7                     | 160L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 20                                                                                             | 260                | 25200/-             |                     |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |         |     |    |    |       |    |         |     |    |    |       |    |         |     |    |     |       |     |         |     |    |     |       |     |         |                       |  |  |  |  |       |       |            |                   |                     |   |    |   |   |        |   |    |    |    |        |   |     |    |    |        |   |     |    |    |        |   |     |    |     |         |   |      |    |     |         |   |      |    |     |         |   |     |    |     |         |   |     |    |     |         |     |
| 8                     | 180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 25                                                                                             | 400                | 35150/-             |                     |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |         |     |    |    |       |    |         |     |    |    |       |    |         |     |    |     |       |     |         |     |    |     |       |     |         |                       |  |  |  |  |       |       |            |                   |                     |   |    |   |   |        |   |    |    |    |        |   |     |    |    |        |   |     |    |    |        |   |     |    |     |         |   |      |    |     |         |   |      |    |     |         |   |     |    |     |         |   |     |    |     |         |     |
| 9                     | 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 25                                                                                             | 400                | 44220/-             |                     |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |         |     |    |    |       |    |         |     |    |    |       |    |         |     |    |     |       |     |         |     |    |     |       |     |         |                       |  |  |  |  |       |       |            |                   |                     |   |    |   |   |        |   |    |    |    |        |   |     |    |    |        |   |     |    |    |        |   |     |    |     |         |   |      |    |     |         |   |      |    |     |         |   |     |    |     |         |   |     |    |     |         |     |
| 2.18                  | <p><b>ANTI CORROSIVE TREATMENT/PAINT</b><br/>For TEFC SR, SPDP-SCR/SR: Paint Shade - 631 as per IS:5<br/>For Apex Series - IE2 motors : Paint Shade - RAL 7034<br/>For Apex Series - IE3 motors : Paint Shade - RAL 5021<br/>Anti Corrosive Paint (With Above mentioned paint shade)<br/>Paint Shade other than above mentioned shades<br/>For Additional thickness upto 130 microns<br/>C3-M/C4-M/C5-M painting for standard paint shade (Applicable for min order val of 30 Lacks. Not Applicable for IIC)<br/>C3-M/C4-M/C5-M painting for non standard paint shade (Applicable for min order val of 50 Lacks. Not Applicable for IIC)<br/>For any other painting shade, material or procedure, please refer to nearest Branch Office<br/>Confirmation for minimum order quantity to be taken from division<br/><b>Fan cover will be black powder coated for NG (up to 132 Frame) /GD series motors</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | No Extra Charges<br>No Extra Charges<br>3%<br>5% subject to max 15,000/-<br>5%<br>12.5%<br>20% |                    |                     |                     |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |         |     |    |    |       |    |         |     |    |    |       |    |         |     |    |     |       |     |         |     |    |     |       |     |         |                       |  |  |  |  |       |       |            |                   |                     |   |    |   |   |        |   |    |    |    |        |   |     |    |    |        |   |     |    |    |        |   |     |    |     |         |   |      |    |     |         |   |      |    |     |         |   |     |    |     |         |   |     |    |     |         |     |
| 2.19                  | <p><b>JACKING OUT HOLES ON MOTOR FEET</b><br/>Jacking out holes on motor feet are provided as a default for 315 &amp; Above<br/>Jacking out holes on motor feet for 225, 250 &amp; 280 Frames<br/>Soft Foot (Upto 200 Microns)<br/>Consult div for lower than 200 Microns</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | No Extra<br>2%<br>5%                                                                           |                    |                     |                     |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |         |     |    |    |       |    |         |     |    |    |       |    |         |     |    |     |       |     |         |     |    |     |       |     |         |                       |  |  |  |  |       |       |            |                   |                     |   |    |   |   |        |   |    |    |    |        |   |     |    |    |        |   |     |    |    |        |   |     |    |     |         |   |      |    |     |         |   |      |    |     |         |   |     |    |     |         |   |     |    |     |         |     |

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## SPECIAL FEATURES OFFERED FOR THREE PHASE AC MOTORS WITH CASH EXTRAS

### 2. MECHANICAL FEATURES:

| Sr.NO                                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Cash Extras in % of ALP or absolute value in INR whichever is Lower                                               |          |           |       |   |     |     |     |   |     |     |     |                                      |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|----------|-----------|-------|---|-----|-----|-----|---|-----|-----|-----|--------------------------------------|
| 2.20                                       | <p><b>VIBRATION LEVEL</b><br/>Vibration level (mm/sec.) shall be as per normal class as per IEC690034-14 Limits of max vibration magnitude in velocity (mm/sec) for vibration grade is as mentioned in table.</p> <table><tr><th>Shaft Height<br/>H,mm<br/>Vibration<br/>Grade</th><th>56≤H≤132</th><th>132≤H≤280</th><th>H&gt;280</th></tr><tr><td>A</td><td>1.6</td><td>2.2</td><td>2.8</td></tr><tr><td>B</td><td>0.7</td><td>1.1</td><td>1.8</td></tr></table> <p>For any other value please refer to division</p> | Shaft Height<br>H,mm<br>Vibration<br>Grade                                                                        | 56≤H≤132 | 132≤H≤280 | H>280 | A | 1.6 | 2.2 | 2.8 | B | 0.7 | 1.1 | 1.8 | <p>No Charges – A</p> <p>20% – B</p> |
| Shaft Height<br>H,mm<br>Vibration<br>Grade | 56≤H≤132                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 132≤H≤280                                                                                                         | H>280    |           |       |   |     |     |     |   |     |     |     |                                      |
| A                                          | 1.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2.2                                                                                                               | 2.8      |           |       |   |     |     |     |   |     |     |     |                                      |
| B                                          | 0.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1.1                                                                                                               | 1.8      |           |       |   |     |     |     |   |     |     |     |                                      |
| 2.21                                       | <p><b>STAINLESS STEEL HARDWARE –</b><br/>Upto Frame 225<br/>Frame 250and above<br/>*Not available for aluminum motors (GD frame) &amp; FLP Motors<br/><b>Brass Studs</b><br/>Frame 63 to 225<br/>250 to 355<br/>400 &amp; Above</p>                                                                                                                                                                                                                                                                                    | <p>Rs. 1350/-<br/>Rs. 2200/-</p> <p>Rs 5000/-<br/>Rs 10000/-<br/>Refer Division</p>                               |          |           |       |   |     |     |     |   |     |     |     |                                      |
| 2.22                                       | <p><b>TOTALLY ENCLOSED MOTORS WITHOUT FAN:</b><br/>Deration factor = 0.5</p>                                                                                                                                                                                                                                                                                                                                                                                                                                           | <p>ALP as per selected frame</p>                                                                                  |          |           |       |   |     |     |     |   |     |     |     |                                      |
| 2.23                                       | <p><b>AIR STREAM RATED MOTOR:</b> Totally enclosed motor cooled because of fan Directly mounted on motor shaft. Output as per TEFC motors</p>                                                                                                                                                                                                                                                                                                                                                                          | <p>ALP as per TEFC frame</p>                                                                                      |          |           |       |   |     |     |     |   |     |     |     |                                      |
| 2.24                                       | <p><b>MS CANOPY ( FOR MOTORS WITH TERMINAL BOX ON RHS / LHS ONLY FOR SAFE AREA &amp; FLP)</b><br/>FRAMES 80 TO 132<br/>FRAMES 160 TO 200<br/>FRAMES 225 TO 250<br/>FRAMES 280 TO 315<br/>FRAMES 355<br/>FRP CANOPY (WITH TERMINAL BOX ON RHS / LHS ONLY) - FOR SAFE AREA ONLY</p>                                                                                                                                                                                                                                      | <p>Rs. 1420/-<br/>Rs. 1780/-<br/>Rs. 3280/-<br/>Rs. 5750/-<br/>Rs. 7600/-<br/>7.50% sub to max of Rs. 15000/-</p> |          |           |       |   |     |     |     |   |     |     |     |                                      |
| 2.25                                       | <p><b>ENCLOSURE</b><br/>Increased safety type 'e' (Ex e "b" )motors as per IEC 60079-7 with anticorro-<br/>sive paint<br/>Non sparking type 'N' (Ex e "c") motors as per IEC60079-15 with anti corrosive<br/>paint.<br/>(From 90 to 355 CI frames only)<br/>(Price basis-For selected frame size, highest kW ALP to be taken as base)</p>                                                                                                                                                                              | <p>15%</p> <p>7.50%</p>                                                                                           |          |           |       |   |     |     |     |   |     |     |     |                                      |

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## SPECIAL FEATURES OFFERED FOR THREE PHASE AC MOTORS WITH CASH EXTRAS

### 3) HAZARDOUS AREA MOTORS THAT CAN BE OFFERED:

| 3.1 FOR TYPE 'E' & TYPE 'N' MOTORS |                  |             |                  |                       |
|------------------------------------|------------------|-------------|------------------|-----------------------|
| ZONE                               | GAS GROUP        | TEMP. CLASS | FRAME            | CERTIFICATION OPTIONS |
| 2                                  | IIC              | T1,T2,T3    | ND 90 TO ND 355L | PESO                  |
| 22                                 | IIIC(Dust Group) | T1,T2,T3    | ND 90 TO ND 355L | KARANDIKAR TEST       |

| 3.2 FOR FLAMEPROOF MOTORS-INDIAN APPROVALS |           |               |                                                                                                                                                           |                      |
|--------------------------------------------|-----------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| ZONE                                       | GAS GROUP | TEMP. CLASS   | FRAME                                                                                                                                                     | CERTIFICATES OPTIONS |
| 1                                          | IIA, IIB  | T1, T2 T3, T4 | E80-E400LX                                                                                                                                                | PESO                 |
|                                            | I         |               | E90-E315L                                                                                                                                                 | DGMS (Coal Mine)     |
|                                            | IIA, IIB  |               | E80-E355LX                                                                                                                                                | ERTL (Oil Mine)      |
|                                            | IIC       |               | Refer to division/ Nearest Branch Office<br>Frames Covered E80 to E315M # & E355LX<br>Terminal box will be on TOP only<br># E315M TEMP CLASS UPTO T3 ONLY |                      |

| 3.3 FOR FLAMEPROOF MOTORS - WITH BASEEFA/ATEXIECEX APPROVALS |          |             |                                                                                                 |
|--------------------------------------------------------------|----------|-------------|-------------------------------------------------------------------------------------------------|
| 1                                                            | IIA, IIB | T1,T2,T3,T4 | 10% EXTRA OVER STANDARD FLAMEPROOF MOTORS FRAMES COVERED ARE E 80 TO E315L. E400LX (Only ATEX)  |
| 1                                                            | IIC      | T1,T2,T3,T4 | 10% EXTRA OVER STANDARD FLAMEPROOF MOTORS FRAMES COVERED ARE E 80 TO E315M & E355LX (Only ATEX) |

For IECX Certification in IIA,IIB & IIC refer division

### 4) PRICING POLICY FOR SPECIAL MOTORS:

|     |                                                                                                                                                    |                                    |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| 4.1 | Smart Motor Kit (280 to ND355 Frame)<br>Smart motor kit with PT100(280 to ND355 Frame)<br>(Price only for kit, Monthly subscription charges extra) | Rs 25000/-<br>Rs 30000/-           |
| 4.2 | Dust Proof Motor                                                                                                                                   | 1.4 times of ALP (No discount)     |
| 4.3 | Roller Table Motors available (4,6,8,10 & 12 Poles)                                                                                                | Refer division for Frame Selection |
| 4.4 | For CI Body with Circular Fins (Available in NR160,R250,N-R315L,NR355L Frames)                                                                     | 20% Extra over IE2                 |
| 4.5 | For Fabricated body with Circular Fins (Available in 132,180,200,225,280 Frames)                                                                   | 35% Extra Over IE2                 |

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## SPECIAL FEATURES OFFERED FOR THREE PHASE AC MOTORS WITH CASH EXTRAS

### 5. ACCESSORIES:

| Sr.NO | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Cash Extras in % of ALP or absolute value in INR whichever is Lower                                              |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| 5.1   | <b>SPACE HEATERS -</b><br>Space heaters are terminated in auxiliary terminal box on top of main terminal box (Except for all FLP motors & TEFC motors in 160-180 for which heater terminals are terminated in main terminal box.)<br>(Space heaters are provided as a standard feature for standard DDI TEFC SCR motors in frame 280 and above.)<br><b>For Non FLP Motors</b><br>For frames 160 to 180 TEFC<br>For frames 200 to 250 TEFC<br>For frames 280 to 500 (TEFC)<br><b>FLP (ATEX) /type "e" /type "n"</b><br><b>(Add 2% extra in case separate auxiliary terminal Box required.)</b><br>For frames 160 to 180 FLP<br>For frames 200 to 250 FLP<br>For frames 280 to 315 FLP<br>For frame 355 to 400 terminal box charges for separate Aux box<br>No Space heaters will be provided for frames below 132<br>Space heater for ND132 frame (TEFC) | Rs. 2000/-<br>Rs. 4000/-<br>Nil<br><br>Rs. 8200 / -<br>Rs. 9000/-<br>Rs. 12000/-<br>Rs. 2500/-<br><br>Rs. 1500/- |
| 5.2   | <b>THERMISTORS (Without relays ) 80 frames above(80 frame in FLP not possible)</b><br>varieties : PTC -110, PTC-130, PTC-150<br>3 nos per motor Frame 80- 450<br>6 nos (PTC 130-3 nos & PTC 150- 3 nos) per motor 160-450<br><b>For FLP type "e" Type "n" &amp; "ne"</b><br>PTC 130° C - 3 nos<br>PTC 150° C - 3 nos                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Rs. 2100/-<br>Rs. 4200/-<br><br>Rs. 4500/-<br>Rs. 5400/-                                                         |
| 5.3   | <b>RTD's 160 frames and above (Not applicable for FLP motors)</b><br>3 Wire Simplex RTD PT100- 3 nos.<br>3 Wire Simplex RTD PT100- 6 nos.<br>6 Wire Duplex RTD PT100- 3 nos.<br>160 to 200 - Extra Price for TB due to RTD arrangement<br>6 Wire Duplex RTD PT100- 6 nos. (315 frame & above only). Applicable for Type e & Type n also.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Rs. 7000/-<br>Rs. 12000/-<br>RS.12000/-<br>6%<br>RS.24000/-                                                      |
| 5.3A  | Vibration Probe Mounting Arrangement, 18X25mm (Probe not in CG Scope) Spm Holes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Rs. 5000/-                                                                                                       |
| 5.4   | <b>BEARING TEMPERATURE DETECTOR (2 Nos.) ROD Type (Duplex) without wiring (not possible for FLP motor)</b><br>Frames 160 to 225<br>250 to ND355<br>NG355 & Above<br>Ex'e' & Ex'n' motors BTD<br>BTD Termination in Separate Terminal Box<br>For slip ring motors BTD will be on DE side only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Rs.8000/-<br>Rs.9000/-<br>No Extra<br>Rs. 30000/-<br>Rs.5000/-                                                   |
| 5.5   | <b>Cable sealing box</b> for group I for frame 160-200 flameproof motors<br>For 225-315 frame flameproof motors 1 No. S. Box is provided as standard<br>For frame 90-132 (not available in frame 80)<br>EPDM Gasket                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Rs. 2000/-<br>Rs. 2200/-<br>Rs. 1700/-<br>Rs. 1500/-                                                             |
| 5.6   | Additional nameplates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Rs. 500/-                                                                                                        |
| 5.7   | Direction arrow plate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Rs. 600/-                                                                                                        |

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## SPECIAL FEATURES OFFERED FOR THREE PHASE AC MOTORS WITH CASH EXTRAS

### 5. ACCESSORIES:

| Sr.NO | Description                                                                                                                                                                                                                                                                                                 | Cash Extras in % of ALP or absolute value in INR whichever is Lower                                                                                                                                                       |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5.8   | <b>FLP Plug and socket arrangement : (SAFEX Make)</b><br>30 Amps, 600 volts<br>110 Amps, 600 volts<br>150 Amps, 600 volts<br>Plug and Socket Arrangement for Safe Area                                                                                                                                      | Rs. 19800/-<br>Rs. 23100/-<br>Rs. 28600/-<br>Refer Division                                                                                                                                                               |
| 5.9   | <b>DOUBLE COMPRESSION GLANDS (Per run of Cable) For single Run / Conical Gland / FLP</b><br>Upto frame 160<br>180 to 225<br>250 to 355<br>Space heater gland and thermistors glands<br># Compression glands suitable for gas IIA, IIB and IIC<br>Metallic sealing plug per run<br>EIL Approved Cable Glands | <b>STD / CONICAL / FLP</b><br><br>Rs. 1500 / Rs 2250 / Rs 4500/-<br>Rs. 2500 / Rs 3700 / Rs 9000/-<br>Rs. 3200 / Rs 4800 / Rs 21000/-<br>Rs. 1100 / NA / Rs 1800<br><br>50% of gland Price<br>Same as rates of FLP Glands |
| 5.10  | <b>FINISHING AND PACKING</b><br>Motor to be delivered in unpacked condition<br>Motor to be delivered with only red oxide primer coat<br>Seaworthy/export packing case for home market (Without fumigation certificate)<br>Regular wooden packing case (where CG STD is Steel Frame)                         | No reduction<br>No reduction<br>7.50%<br><br>5%                                                                                                                                                                           |

### 6. SPECIAL MOTORS:

|     |                                                                                                                                                                                                                                       |                                                                                                                                |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 6.1 | <b>INSULATIONS CLASS</b><br>Class 'H' insulation For frame 63-500                                                                                                                                                                     | 10%                                                                                                                            |
| 6.2 | <b>MULTI SPEED MOTORS (Only for Safe Area)</b><br>Single tapped winding type with 2/4, 4/8, 4/6, 6/8 P Motors<br><br>Dual speed motors with separate winding or polarity above 8 pole<br><br>Dual speed motor with more than 2 speeds | 10% additional price for higher polarity<br><br>17.5% of higher price for among polarity<br><br>25% on ALP of highest polarity |
| 6.3 | <b>Motor with higher polarity</b><br>Extra Loading on 8P Motor ALP- (Higher Frame in that KW)<br>10 pole<br>12 pole<br>16 pole                                                                                                        | 10%<br>15%<br>20%                                                                                                              |
| 6.4 | <b>CRANE DUTY MOTORS :</b><br>Intermittent Duty (other than S1)                                                                                                                                                                       | For rating/ frames not covered in price lists please load 7.50% extra over identified frame/rating ALP                         |
| 6.5 | <b>EPOXY GEL COAT(63 to 500 frames)</b>                                                                                                                                                                                               | 2%                                                                                                                             |
| 6.6 | <b>CLEAN FLOW CONSTRUCTION</b> for TEFC SCR textile motors Frames 90 to 132                                                                                                                                                           | Refer AC Textile Motors page given separately                                                                                  |

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## SPECIAL FEATURES OFFERED FOR THREE PHASE AC MOTORS WITH CASH EXTRAS

### 7. TESTING CHARGES:

#### INSPECTION/TEST WITNESSING BY CUSTOMER/ CONSULTANT

Inspection arrangements and third party inspection charges are in customer's scope. In addition following would be inspection charges for witnessing tests:

| Sr.NO | Description                                                                                                                                                                                                                                                           | Cash Extras in % of ALP or absolute value in INR whichever is Lower                                                              |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| 7.1   | Inspection as per CG STD QAP<br>Inspection as per Customer format of QAP<br><b>Routine testing per motor:</b><br>Frames 63 to 160<br>Frames 180 to 250<br>Frames 280 to 500<br>Additional No Load running over routine testin                                         | As per Net Charges given below<br>5% + Net Charges as given below<br>Rs. 2500/-<br>Rs. 3500/-<br>Rs. 4500/-<br>Rs 1000 Per Motor |
| 7.2   | <b>Type testing per motor</b><br>Frames 63 to 160<br>Frames 180 to 250<br>Frames 280 to 315<br>Frame 355<br>Frame 400/ 500(part load testing shall be done depending on test capacity)<br>100% Dimension check (all Qty in a Lot of similar frame) will be Chargeable | Rs. 5500/-<br>Rs. 8250/-<br>Rs. 12650<br>Rs. 15400/-<br>Rs. 27500/-<br>25% of Type test charge per Motor                         |
| 7.3   | <b>FLP Pressure test per motor</b><br>Frame 80 to 160<br>Frame 180 to 400                                                                                                                                                                                             | Rs. 3300/-<br>Rs. 8800/-                                                                                                         |
| 7.4   | IInd numeral IP55 test per motor<br>(Prior confirmation from Division required)                                                                                                                                                                                       | Rs. 5000/-                                                                                                                       |
| 7.5   | <b>Testing with inverter drive</b><br>(with ERTL/ KRANDIKAR witness) Customer to arrange power analyzer along with drive<br>(Without ERTL/KARANDIKAR witness)                                                                                                         | Rs. 1,75,000/- per motor<br>Rs. 55,000/- per motor                                                                               |
| 7.6   | <b>DOCUMENTS CHARGES (technical/ commercial)</b><br>documents for approval/ submission<br>Marine motor documentation: please refer such enquiries to division.                                                                                                        | Rs. 1500/- per rating<br>Rs. 14000/- per rating                                                                                  |

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Smart solutions.  
Strong relationships

# Presenting Next generation Ultra Premium Efficiency **IE5 motors**



- » LSIT technology ensuring high instantaneous Torque
- » Less Torque oscillations & ripples during starting as well as running avoiding tripping of sensitive loads
- » The technology ensures maintaining system efficiency (with VFD), which seen going down in PMSRM or other kind of technology
- » Hybrid Technology:- Induction with Magnet
- » Zero Slip Operation.
- » Fixed Synchronous speed regardless of Load.
- » Higher Power Factor at lower Load.
- » Up to 50% Lower Losses and Energy consumption than IE2.
- » Low Bearing and winding temperature rise.
- » Line Start Permanent Magnet motor. (DOL / VFD Compatible)
- » Suitable for all applications.
- » Replaceable with existing available motor.



# IE4 Motors Safe Area

  
**Apex Series**  
a green solution...

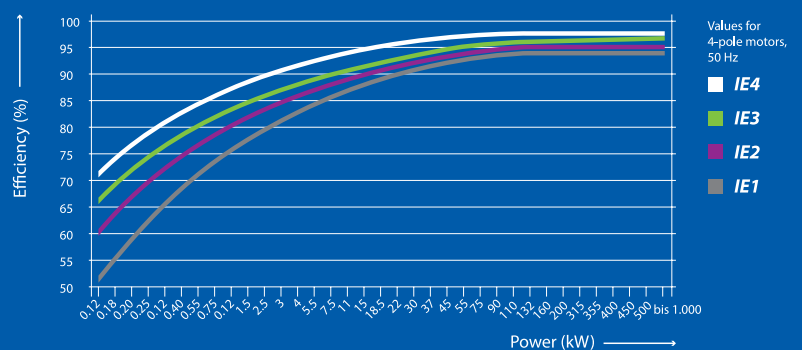
CE



## Super Premium Efficiency Motors

### ► FEATURES

- » Super premium IE4 efficiency class as per IS :12615-2018 and IEC60034-30-01
- » High power factor at all loads
- » Compatible with standard VFD
- » Lossless excitation



|          | IE 4 - Conventional Apex series Motor | IE 4 - LSPM Technology Motor |
|----------|---------------------------------------|------------------------------|
| Output   | 0.55 kW to 500kW                      | 5.5 kW to 37kW               |
| Poles    | 2/4/6/8                               | 4                            |
| Frames   | 80 to 500                             | 132 to 225                   |
| Voltage  | 415V, Other on request                | 415V, Other on request       |
| Mounting | Foot, Other on request                | Foot, other on request       |

## SUPER PREMIUM EFFICIENCY - IE4

### TOTALLY ENCLOSED FAN COOLED SQUIRREL CAGE 3 PH INDUSTION MOTORS - FOOT MOUNTED

Squirrel cage Induction Motors with Enclosure conforming to protection IP 55 Horizontal Foot Mounted (B3), continuously rated (S1) suitable for operation on 415+/- 10% V, 3 Phase 50Hz+/- 5% AC supply with ambient 50°C, Class "F" insulation with temperature rise limited to Class "B" altitude less than 1000 m above m.s.l. Performance Efficiency values are conforming to IS12615 / IS/IEC 60034

| OUTPUT Rating |       | 2 Pole / 3000 RPM |            | 4 Pole / 1500 RPM |            | 6 Pole / 1000 RPM |            |
|---------------|-------|-------------------|------------|-------------------|------------|-------------------|------------|
| KW            | HP    | Frame             | List Price | Frame             | List Price | Frame             | List Price |
| 0.37          | 0.50  | -                 | -          | -                 | -          | PC80              | 15350/-    |
| 0.55          | 0.75  | PC80              | 13650/-    | PC80              | 14500/-    | PC80              | 15800/-    |
| 0.75          | 1.00  | PC80              | 14100/-    | PC80              | 14675/-    | PC90S             | 17775/-    |
| 1.10          | 1.50  | PC80              | 15375/-    | PC90S             | 18125/-    | PC90L             | 19500/-    |
| 1.50          | 2.00  | PC90S             | 17650/-    | PC90L             | 22025/-    | PC100L            | 29900/-    |
| 2.20          | 3.00  | PC90L             | 22650/-    | PC100L            | 26225/-    | PC112M            | 31575/-    |
| 3.70          | 5.00  | PC100L            | 29000/-    | PC112M            | 33250/-    | PC132S            | 46525/-    |
| 5.50          | 7.50  | PC132S            | 45825/-    | PC132S            | 46125/-    | PC132M            | 57175/-    |
| 7.50          | 10.00 | PC132S            | 47450/-    | PC132M            | 54525/-    | PC160M            | 85250/-    |
| 9.30          | 12.50 | PC160M            | 79950/-    | PC160M            | 85025/-    | PC160L            | 92900/-    |
| 11            | 15    | PC160M            | 82875/-    | PC160M            | 87975/-    | PC160L            | 104925/-   |
| 15            | 20    | PC160M            | 97075/-    | PC160L            | 107250/-   | PC180L            | 137050/-   |
| 18.5          | 25    | PC160L            | 124750/-   | PC180M            | 137225/-   | PC200L            | 195725/-   |
| 22            | 30    | PC180M            | 138425/-   | PC180L            | 150300/-   | PC200L            | 215275/-   |
| 30            | 40    | PC200L            | 205800/-   | PC200L            | 207350/-   | PC225M            | 301125/-   |
| 37            | 50    | PC200L            | 249900/-   | PC225S            | 242450/-   | PC250M            | 404950/-   |
| 45            | 60    | PC225M            | 321600/-   | PC225M            | 293900/-   | PC280S            | 485025/-   |
| 55            | 75    | PC250M            | 432900/-   | PC250M            | 403875/-   | PC280M            | 557000/-   |
| 75            | 100   | PC280S            | 519850/-   | PC280S            | 472600/-   | PC315S            | 639225/-   |
| 90            | 120   | PC280M            | 599650/-   | PC280M            | 550475/-   | PC315M            | 799875/-   |
| 110           | 150   | PC315S            | 757450/-   | PC315S            | 666750/-   | PC315M            | 891925/-   |
| 132           | 180   | PC315M            | 930925/-   | PC315M            | 781275/-   | PC315L            | 1041225/-  |
| 160           | 215   | PC315L            | 1019750/-  | PC315L            | 988150/-   | PC315L            | 1084150/-  |
| 180           | 240   | PC315L            | 1073500/-  | PC315L            | 1068125/-  | PC355L            | 1324450/-  |
| 200           | 270   | PC315L            | 1190550/-  | PC315L            | 1112750/-  | PC355L            | 1390650/-  |
| 225           | 300   | PC355L            | 1259850/-  | PC355L            | 1373700/-  | PC355L            | 1449925/-  |
| 250           | 335   | PC355L            | 1333550/-  | PC355L            | 1401175/-  | PC355L            | 1522425/-  |
| 275           | 370   | PC355L            | 1411800/-  | PC355L            | 1484325/-  | PC355L            | 1721025/-  |
| 315           | 425   | PC355L            | 1445750/-  | PC355L            | 1593225/-  | PC355L            | 2130525/-  |

Standard Paint Shade : RAL1036 (Pearl Gold)

For other ratings please contact nearest CG Office

8 Pole motors are available on request

Temperature rise with VFD in same frame shall be limited to class F ; If customer required with rise B, please refer to nearest branch

# IE3 Motors Safe Area



CE



## Premium Efficiency Motors

### ► FEATURES

- » High reliability, long life
- » Low life cycle cost with faster return on investment
- » Compatible with standard VFDs\*
- » Customised offering as per application



**IE3 PREMIUM EFFICIENCY**  
LV motors, is another  
**GREEN INITIATIVE**  
by CG to save energy

\*50-100% Speed Range-Variable Torque



## PREMIUM EFFICIENCY - IE3 (CAST IRON SERIES)

### TOTALLY ENCLOSED FAN COOLED SQUIRREL CAGE 3 PH INDUSTION MOTORS - FOOT MOUNTED

Squirrel cage Induction Motors with Enclosure conforming to protection IP 55 Horizontal Foot Mounted (B3), continuously rated (S1) suitable for operation on 415+/- 10% V, 3 Phase 50Hz+/- 5% AC supply with ambient 50°C, Class "F" insulation with temperature rise limited to Class "B" altitude less than 1000 m above m.s.l. Performance Efficiency values are conforming to IS12615 / IS/IEC 60034

| OUTPUT Rating |       | 2 Pole / 3000 RPM |            | 4 Pole / 1500 RPM |            | 6 Pole / 1000 RPM |            | 8 Pole / 750 RPM |            |
|---------------|-------|-------------------|------------|-------------------|------------|-------------------|------------|------------------|------------|
| KW            | HP    | Frame             | List Price | Frame             | List Price | Frame             | List Price | Frame            | List Price |
| 0.37          | 0.5   | -                 | -          | -                 | -          | NG80              | 11800/-    | ND90S            | 14400/-    |
| 0.55          | 0.75  | NG80              | 10500/-    | NG80              | 10875      | NG80              | 12125/-    | ND90L            | 15750/-    |
| 0.75          | 1.00  | NG80              | 10850/-    | NG80              | 11025      | NG90S             | 13675/-    | ND100L           | 19350/-    |
| 1.10          | 1.50  | NG80              | 11825/-    | NG90S             | 13600      | NG90L             | 14975/-    | ND100L           | 23550/-    |
| 1.50          | 2.00  | NG90S             | 13550/-    | NG90L             | 16550      | NG100L            | 23000/-    | ND112M           | 27300/-    |
| 2.20          | 3.00  | NG90L             | 17400/-    | NG100L            | 19700      | NG112M            | 24275/-    | ND132S           | 36125/-    |
| 3.70          | 5.00  | NG100L            | 22325/-    | NG112M            | 24975      | NG132S            | 35775/-    | ND160M           | 56250/-    |
| 5.50          | 7.50  | NG132S            | 35250/-    | NG132S            | 34650      | NG132M            | 43975/-    | -                | -          |
| 7.50          | 10.00 | NG132S            | 36475/-    | NG132M            | 40950      | ND160M            | 65575/-    | ND160L           | 89100/-    |
| 9.30          | 12.50 | ND160M            | 61475/-    | ND160M            | 63875      | ND160L            | 71450/-    | ND180M           | 115875/-   |
| 11.00         | 15.00 | ND160M            | 63725/-    | ND160M            | 66075      | ND160L            | 80725/-    | ND180L           | 122200/-   |
| 15            | 20    | ND160M            | 74675/-    | ND160L            | 80575      | ND180L            | 105425/-   | ND200L           | 172025/-   |
| 18.5          | 25    | ND160L            | 95950/-    | ND180M            | 103100     | ND200L            | 150550/-   | ND225S           | 220750/-   |
| 22.0          | 30    | ND180M            | 106475/-   | ND180L            | 112925     | ND200L            | 165600/-   | ND225M           | 265375/-   |
| 30            | 40    | ND200L            | 158300/-   | ND200L            | 155775     | ND225M            | 231625/-   | ND250M           | 358325/-   |
| 37            | 50    | ND200L            | 192225/-   | ND225S            | 182150     | ND250M            | 311500/-   | ND280S           | 467300/-   |
| 45            | 60    | ND225M            | 247375/-   | ND225M            | 220800     | ND280S            | 373100/-   | ND280M           | 539925/-   |
| 55            | 75    | ND250MX           | 333000/-   | ND250MX           | 303425     | ND280M            | 428450/-   | ND315S           | 654275/-   |
| 75            | 100   | ND280S            | 415875/-   | ND280S            | 369300     | ND315S            | 511400/-   | ND315M           | 812400/-   |
| 90            | 120   | ND280M            | 479725/-   | ND280M            | 430150     | ND315M            | 639900/-   | ND315L           | 920975/-   |
| 110           | 150   | ND315S            | 605975/-   | ND315S            | 521000     | ND315M            | 713550/-   | ND315LX          | 975000/-   |
| 125           | 170   | ND315M            | 711000/-   | ND315M            | 593500     | ND315LX           | 777725/-   | ND315LX          | 1071200/-  |
| 132           | 180   | ND315M            | 744750/-   | ND315M            | 610475     | ND315LX           | 832975/-   | ND315LX          | 1129600/-  |
| 160           | 215   | ND315LX           | 815800/-   | ND315LX           | 772125     | ND315LX           | 867325/-   | ND355LX          | 1312425/-  |
| 180           | 240   | ND315LX           | 858800/-   | ND315LX           | 834625     | ND355LX           | 1059550/-  | ND355LX          | 1346525/-  |
| 200           | 270   | ND315LX           | 952425/-   | ND315LX           | 869500     | ND355LX           | 1112525/-  | ND355LX          | 1442475/-  |
| 225           | 300   | ND355LX*          | 1007875/-  | ND355LX           | 1073400    | ND355LX           | 1159925/-  | ND355LX          | 2049475/-  |
| 250           | 335   | ND355LX*          | 1066850/-  | ND355LX           | 1094875    | ND355LX           | 1217925/-  | -                | -          |
| 275           | 370   | ND355LX*          | 1129425/-  | ND355LX           | 1159850    | ND355LX           | 1376825/-  | -                | -          |
| 315           | 425   | ND355LX*          | 1156600/-  | ND355LX*          | 1244950    | ND355LX*          | 1704425/-  | -                | -          |
| 355           | 473   | -                 | -          | ND355LX*          | 1512450    | -                 | -          | -                | -          |
| 375           | 500   | -                 | -          | ND355LX*          | 1728250    | -                 | -          | -                | -          |

275KW/2Pole is suitable for 40 Deg C Amb/70 Deg C Temperature rise

Standard Paint Shade : RAL5021 (Water Blue) Epoxy

\*These are suitable to temperature rise limited to class F

Temp rise with VFD in same frame shall be limited to class F .If customer required with rise B please refer to nearest branch.

# Aluminum Motors



CE



## Lighter is Better

### ► FEATURES

- » Light in weight , strong in performance
- » Multi mount construction
- » High torque with smooth operation
- » Corrosion resistant construction
- » High power to weight ratio
- » Maximum reliability and flexibility
- » Low noise and vibration level

### ► APPLICATION

- |               |                |
|---------------|----------------|
| » Pump        | » Textile Mill |
| » Blower      | » Fans         |
| » Compressors | » Packing      |



## PREMIUM EFFICIENCY - IE3 (ALUMINUM SERIES)

### TOTALLY ENCLOSED FAN COOLED SQUIRREL CAGE 3 PH INDUCTION MOTORS - FOOT MOUNTED

Squirrel cage Induction Motors with Enclosure conforming to protection IP 55 Horizontal Foot Mounted (B3), continuously rated (S1) suitable for operation on 415+/- 10% V, 3 Phase 50Hz+/- 5% AC supply with ambient 50°C, Class "F" insulation with temperature rise limited to Class "B" altitude less than 1000 m above m.s.l. Performance Efficiency values are conforming to IS12615 / IS/IEC 60034

| OUTPUT Rating |       | 2 Pole / 3000 RPM |            | 4 Pole / 1500 RPM |            | 6 Pole / 1000 RPM |            |
|---------------|-------|-------------------|------------|-------------------|------------|-------------------|------------|
| KW            | HP    | Frame             | List Price | Frame             | List Price | Frame             | List Price |
| 0.37          | 0.50  | GD71              | 7675/-     | GD71              | 7900/-     | GD80              | 11250/-    |
| 0.55          | 0.75  | GD71              | 10000/-    | GD80              | 10350/-    | GD80              | 11525/-    |
| 0.75          | 1.00  | GD80              | 10325/-    | GD80              | 10500/-    | GD90S             | 13000/-    |
| 1.10          | 1.50  | GD80              | 11275/-    | GD90S             | 12950/-    | GD90L             | 14250/-    |
| 1.50          | 2.00  | GD90S             | 12900/-    | GD90L             | 15750/-    | GD100L            | 21900/-    |
| 2.20          | 3.00  | GD90L             | 16575/-    | GD100L            | 18750/-    | GD112M            | 23125/-    |
| 3.00          | 4.00  | GD100L            | 19575/-    | GD112M            | 21525/-    | GD132S            | 34050/-    |
| 3.70          | 5.00  | GD100L            | 21250/-    | GD112M            | 23775/-    | GD132S            | 34050/-    |
| 4.00          | 5.50  | GD112M            | 26290/-    | GD112M            | 27370/-    | GD132S            | 36545/-    |
| 5.50          | 7.50  | GD132S            | 33575/-    | GD132S            | 33000/-    | GD132M            | 41875/-    |
| 7.50          | 10.00 | GD132S            | 34725/-    | GD132M            | 39000/-    | -                 | -          |
| 9.3*          | 12.50 | GD132M            | 52440/-    | GD132M            | 54165/-    | -                 | -          |

Standard Paint Shade : RAL5021 (Water Blue)

For other ratings please contact nearest CG Office

\* Ratings are with F class Temperature Rise

## PREMIUM EFFICIENCY - IE2 (ALUMINUM SERIES)

### TOTALLY ENCLOSED FAN COOLED SQUIRREL CAGE 3 PH INDUCTION MOTORS - FOOT MOUNTED

Squirrel cage Induction Motors with Enclosure conforming to protection IP 55 Horizontal Foot Mounted (B3), continuously rated (S1) suitable for operation on 415+/- 10% V, 3 Phase 50Hz+/- 5% AC supply with ambient 50°C, Class "F" insulation with temperature rise limited to Class "B" altitude less than 1000 m above m.s.l. Performance Efficiency values are conforming to IS12615 / IS/IEC 60034

| OUTPUT Rating |       | 2 Pole / 3000 RPM |            | 4 Pole / 1500 RPM |            | 6 Pole / 1000 RPM |            |
|---------------|-------|-------------------|------------|-------------------|------------|-------------------|------------|
| KW            | HP    | Frame             | List Price | Frame             | List Price | Frame             | List Price |
| 0.18          | 0.25  | GD63              | 5725/-     | GD63              | 6125/-     | -                 | -          |
| 0.25          | 0.33  | GD63              | 5900/-     | GD71              | 6225/-     | -                 | -          |
| 0.37          | 0.50  | GD71              | 6700/-     | GD71              | 6875/-     | GD80              | 9775/-     |
| 0.55          | 0.75  | GD71              | 8700/-     | GD80              | 9000/-     | GD80M             | 10025/-    |
| 0.75          | 1.00  | GD80              | 8975/-     | GD80              | 9125/-     | GD90S             | 11300/-    |
| 1.10          | 1.50  | GD80              | 9775/-     | GD90S             | 11275/-    | GD90L             | 12400/-    |
| 1.50          | 2.00  | GD90S             | 11225/-    | GD90L             | 13675/-    | GD100L            | 17825/-    |
| 2.20          | 3.00  | GD90L             | 14400/-    | GD100L            | 16300/-    | GD112M            | 19000/-    |
| 3.70          | 5.00  | GD100L            | 17900/-    | GD112M            | 20650/-    | GD132S            | 29625/-    |
| 4.00          | 5.50  | GD112M            | 22860/-    | GD112M            | 23800/-    | GD132S            | 31775/-    |
| 5.50          | 7.50  | GD132S            | 30500/-    | GD132S            | 28700/-    | GD132M            | 36425/-    |
| 7.50          | 10.00 | GD132S            | 33125/-    | GD132M            | 33925/-    | GD132M*           | 58375/-    |
| 9.30          | 12.50 | GD132M*           | 45600/-    | GD132M*           | 47100/-    | -                 | -          |
| 11.00         | 15.00 | GD132M*           | 55690/-    | GD132M*           | 53530/-    | -                 | -          |

For other ratings please contact nearest CG Office  
For MEPS-B2 Performance, 10% additional to above prices

Standard Paint Shade : RAL7034 (Yellow Grey)

\* Ratings are with F class Temperature Rise

# IE2 Motors Safe Area



CE



## High Efficiency Motors

### ► FEATURES

- » High efficiency at low running cost
- » High torque with smooth acceleration
- » Enhanced motor life
- » Efficiency as per IS 12615: 2018 and IEC 60034-30-1

### ► APPLICATION

- » Pumps
- » Blowers
- » Compressors
- » Material Handling Equipment
- » Machine Tools

**SAVE TODAY**  
For Better Tomorrow

## HIGH EFFICIENCY - IE2 (CAST IRON SERIES)

### TOTALLY ENCLOSED FAN COOLED SQUIRREL CAGE 3 PH INDUSTION MOTORS - FOOT MOUNTED

Squirrel cage Induction Motors with Enclosure conforming to protection IP 55 Horizontal Foot Mounted (B3), continuously rated (S1) suitable for operation on 415+/- 10% V, 3 Phase 50Hz+/- 5% AC supply with ambient 50°C, Class "F" insulation with temperature rise limited to Class "B" altitude less than 1000 m above m.s.l. Performance Efficiency values are conforming to IS12615 / IS/IEC 60034

| OUTPUT Rating |       | 2 Pole / 3000 RPM |            | 4 Pole / 1500 RPM |            | 6 Pole / 1000 RPM |            | 8 Pole / 750 RPM |            |
|---------------|-------|-------------------|------------|-------------------|------------|-------------------|------------|------------------|------------|
| KW            | HP    | Frame             | List Price | Frame             | List Price | Frame             | List Price | Frame            | List Price |
| 0.37          | 0.50  | -                 | -          | -                 | -          | ND80              | 10275/-    | ND90S            | 12500/-    |
| 0.55          | 0.75  | -                 | -          | ND80              | 9450/-     | ND80              | 10550/-    | ND90L            | 13675/-    |
| 0.75          | 1.00  | ND80              | 9450/-     | ND80              | 9600/-     | ND90S             | 11875/-    | ND100L           | 16825/-    |
| 1.10          | 1.50  | ND80              | 10275/-    | ND90S             | 11850/-    | ND90L             | 13025/-    | ND100L           | 20475/-    |
| 1.50          | 2.00  | ND90S             | 11800/-    | ND90L             | 14375/-    | ND100L            | 18750/-    | ND112M           | 23725/-    |
| 2.20          | 3.00  | ND90L             | 15150/-    | ND100L            | 17125/-    | ND112M            | 19975/-    | ND132S           | 31400/-    |
| 3.70          | 5.00  | ND100L            | 18800/-    | ND112M            | 21700/-    | ND132S            | 31100/-    | ND160M           | 48900/-    |
| 5.50          | 7.50  | ND112M            | 25400/-    | -                 | -          | -                 | -          | -                | -          |
| 5.50          | 7.50  | ND132S            | 32025/-    | ND132S            | 30150/-    | ND132M            | 38250/-    | ND160M           | 61100/-    |
| 7.50          | 10.00 | ND132S            | 34800/-    | ND132M            | 35625/-    | ND160M            | 58375/-    | ND160L           | 77475/-    |
| 9.30          | 12.50 | ND132M            | 50675/-    | NG132M            | 47100/-    | -                 | -          | ND180M           | 100750/-   |
| 9.30          | 12.50 | ND160M            | 58625/-    | ND160M            | 57575/-    | ND160L            | 63625/-    | -                | -          |
| 11            | 15    | ND160M            | 61875/-    | ND160M            | 59475/-    | ND160L            | 71850/-    | ND180L           | 106250/-   |
| 15            | 20    | ND160M            | 66500/-    | ND160L            | 71725/-    | ND180L            | 93850/-    | ND200L           | 149575/-   |
| 18.5          | 25    | ND160L            | 85450/-    | ND180M            | 91775/-    | ND200L            | 134000/-   | ND225S           | 191950/-   |
| 22            | 30    | ND180M            | 96000/-    | ND180L            | 100525/-   | ND200L            | 144300/-   | ND225M           | 230775/-   |
| 30            | 40    | ND200L            | 140950/-   | ND200L            | 138700/-   | ND225M            | 206225/-   | ND250M           | 311575/-   |
| 37            | 50    | ND200L            | 171125/-   | ND225S            | 162175/-   | ND250M            | 277300/-   | ND280S           | 406325/-   |
| 45            | 60    | ND225M            | 220225/-   | ND225M            | 196575/-   | ND280S            | 332150/-   | ND280M           | 469500/-   |
| 55            | 75    | ND250MX           | 296475/-   | ND250MX           | 270125/-   | ND280M            | 381450/-   | ND315S           | 568900/-   |
| 75            | 100   | ND280S            | 370250/-   | ND280S            | 328775/-   | ND315S            | 465875/-   | ND315M           | 706400/-   |
| 90            | 120   | ND280M            | 427100/-   | ND280M            | 382950/-   | ND315M            | 582925/-   | ND315L           | 800850/-   |
| 110           | 150   | ND315S            | 552000/-   | ND315S            | 474600/-   | ND315M            | 650000/-   | ND315LX          | 847800/-   |
| 125           | 170   | ND315M            | 647700/-   | ND315M            | 540650/-   | ND315LX           | 708500/-   | ND315LX          | 931475/-   |
| 132           | 180   | ND315M            | 678425/-   | ND315M            | 556125/-   | ND315LX           | 758800/-   | ND315LX          | 982250/-   |
| 160           | 215   | ND315LX           | 743150/-   | ND315LX           | 652475/-   | ND315LX           | 790100/-   | ND355LX          | 1141225/-  |
| 180           | 240   | ND315LX           | 782350/-   | ND315LX           | 693975/-   | ND355LX           | 914975/-   | ND355LX          | 1170875/-  |
| 200           | 270   | ND315LX           | 867650/-   | ND315LX           | 792050/-   | ND355LX           | 937000/-   | ND355LX          | 1254325/-  |
| 225           | 300   | ND355LX*          | 976975/-   | ND355LX           | 910975/-   | ND355LX           | 965125/-   | ND355LX          | 1782150/-  |
| 250           | 335   | ND355LX*          | 1000625/-  | ND355LX           | 966575/-   | ND355LX           | 1031925/-  | -                | -          |
| 275           | 370   | ND355LX*          | 1028900/-  | ND355LX           | 1056600/-  | ND355LX*          | 1254250/-  | -                | -          |
| 315           | 425   | ND355LX*          | 1053625/-  | ND355LX*          | 1134100/-  | ND355LX*          | 1552650/-  | -                | -          |
| 355           | 473   | -                 | -          | ND355LX*          | 1377800/-  | -                 | -          | -                | -          |
| 375           | 500   | -                 | -          | ND355LX*          | 1574375/-  | -                 | -          | -                | -          |

\*These are suitable to temperature rise limited to class F

Temp rise with VFD in same frame shall be limited to class F. If cust required with rise B please refer to nearest branch.

For other ratings please contact nearest CG Office

For MEPS-B2 Performance, 10% additional to above prices

Standard Paint Shade : RAL7034 (Yellow Grey)

# Smart Motors



## Future Ready

### ► FEATURES

- » Remote Controlling
- » Communication between various equipment operating with Smart motor
- » Communicate with other smart devices in the Factory
- » Reduce risks related to operation and maintenance

### Maintenance 4.0

#### Proactive Maintenance:

- ♦ 24x7, 365 days motor monitoring with real time alerts
- ♦ No dependency on outside services
- ♦ Extensive peripheral data accumulation & reporting
- ♦ SMS email alarms to all authorized personnel

### Productivity 4.0

- ♦ IIOT based productivity monitoring:
- ♦ Cloud based systems & communication system made data monitoring wireless
- ♦ Location independent control rooms
- ♦ Easy access to MIS
- ♦ Easy to install & economical monitoring made possible

### IIOT READY



Tri-Axial  
Vibration



Pattern  
Learning



FFT  
Spectrum



Productivity



Temperature



Noise



OEE





## SMART MOTOR - HIGHER OUTPUT

### TOTALLY ENCLOSED FAN COOLED SQUIRREL CAGE 3 PH INDUCTION MOTORS-FOOT MOUNTED

Enclosure conforming to protection IP 55 Horizontal Foot Mounted (B3), continuously rated (S1) suitable for operation on 415+/- 10% V, 3 Phase 50Hz+/- 5% AC supply with ambient 45°C with Class "F" insulation and altitude less than 1000 m above m.s.l. Efficiency values are conforming to IS12615 / IS/IEC 60034

### High Efficiency - IE2

| OUTPUT Rating |     | 2 Pole / 3000 RPM |            | 4 Pole / 1500 RPM |            | 6 Pole / 1000 RPM |            | 8 Pole / 750 RPM |            |
|---------------|-----|-------------------|------------|-------------------|------------|-------------------|------------|------------------|------------|
| KW            | HP  | Frame             | List Price | Frame             | List Price | Frame             | List Price | Frame            | List Price |
| 250           | 335 | -                 | -          | -                 | -          | -                 | -          | NG355LX          | 1791700/-  |
| 315           | 422 | -                 | -          | -                 | -          | -                 | -          | NG355LX          | 1856825/-  |
| 355           | 476 | NG355LX           | 1439050/-  | -                 | -          | NG355LX           | 1652500    | NG400LX          | 1970875/-  |
| 375           | 503 | NG355LX           | 1514800/-  | -                 | -          | ND400LX           | 2036000    | NG400LX          | 2068575/-  |
| 400           | 535 | NG355LX           | 1579950/-  | NG355LX           | 1628825/-  | NG400LX           | 2231475    | NG400LX          | 2231475/-  |
| 425           | 570 | NG355LX           | 1645100/-  | ND400LX           | 1905725/-  | -                 | -          | -                | -          |
| 450           | 600 | NG400LX           | 2003425/-  | NG400LX           | 2036000/-  | NG400LX           | 2296625    | ND450LX          | 3241325/-  |
| 500           | 670 | NG400LX           | 2068575/-  | NG400LX           | 2101150/-  | NG400LX           | 2394325    | ND450LX          | 3501925/-  |
| 560           | 750 | NG400LX           | 2133725/-  | NG400LX           | 2231475/-  | NG400LX           | 2459500    | ND450LX          | On Request |
| 630           | 850 | NG400LX           | 2361750/-  | NG400LX           | 2361750/-  | ND450LX           | 3111000    | ND500LX*         | On Request |
| 710#          | 950 | -                 | -          | ND450LX           | On Request | ND500LX*          | 3320150    | -                | -          |
| 710#          | 950 | -                 | -          | ND500LX*          | On Request | -                 | -          | -                | -          |

# Available with 690V Delta for any other voltage on Request.  
Standard Paint Shade : RAL7034 (Yellow Grey)

## SMART MOTOR -HIGHER OUTPUT - IE3

### TOTALLY ENCLOSED FAN COOLED SQUIRREL CAGE 3 PH INDUCTION MOTORS-FOOT MOUNTED

Enclosure conforming to protection IP 55 Horizontal Foot Mounted (B3), continuously rated (S1) suitable for operation on 415+/- 10% V, 3 Phase 50Hz+/- 5% AC supply with ambient 45°C with Class "F" insulation and altitude less than 1000 m above m.s.l. Efficiency values are conforming to IS12615 / IS/IEC 60034

| OUTPUT Rating |     | 2 Pole / 3000 RPM |            | 4 Pole / 1500 RPM |            | 6 Pole / 1000 RPM |            | 8 Pole / 750 RPM |            |
|---------------|-----|-------------------|------------|-------------------|------------|-------------------|------------|------------------|------------|
| KW            | HP  | Frame             | List Price | Frame             | List Price | Frame             | List Price | Frame            | List Price |
| 250           | 335 | -                 | -          | -                 | -          | -                 | -          | NG355LX          | 1970875/-  |
| 315           | 422 | -                 | -          | -                 | -          | -                 | -          | NG355LX          | 2042550/-  |
| 355           | 476 | NG355LX           | On Request | -                 | -          | NG355LX           | 1773800/-  | NG400LX          | 2167975/-  |
| 375           | 503 | NG355LX           | On Request | -                 | -          | ND400LX           | 2239625/-  | NG400LX          | 2275450/-  |
| 400           | 535 | NG355LX           | On Request | NG355LX           | 1791725/-  | NG400LX           | 2454650/-  | NG400LX          | 2454650/-  |
| 425           | 570 | NG355LX           | On Request | ND400LX           | 2096300/-  | -                 | -          | -                | -          |
| 450           | 600 | NG400LX           | On Request | NG400LX           | 2239625/-  | NG400LX           | 2526300/-  | ND450LX          | 3565475/-  |
| 500           | 670 | NG400LX           | 2275450/-  | NG400LX           | 2311300/-  | NG400LX           | 2633800/-  | ND450LX          | 3852150/-  |
| 560           | 750 | NG400LX           | 2347125/-  | NG400LX           | 2454650/-  | NG400LX           | 2705475/-  | ND450LX          | On Request |
| 630           | 850 | NG400LX           | 2597950/-  | NG400LX           | 2597950/-  | ND450LX           | 3422125/-  | ND500LX*         | On Request |
| 710#          | 950 | -                 | -          | ND450LX           | On Request | ND500LX*          | On Request | -                | -          |
| 710#          | 950 | -                 | -          | ND500LX*          | On Request | -                 | -          | -                | -          |

# Available with 690V Delta for any other voltage on Request.  
Standard Paint Shade : RAL5021 (Water Blue) Epoxy

\* ND500LX will be with Fabricated body

**Motors fitted with Smart Motor Kit operates through wireless communication & provides following information on smart phone/Laptop**

Tri-axial Vibration, Noise, Temperature and real time data can be recorded along with real time alerts





## SMART MOTOR -HIGHER OUTPUT (IE3) FOR VFD DUTY APPLICATION

### TOTALLY ENCLOSED FAN COOLED SQUIRREL CAGE 3 PH INDUCTION MOTORS-FOOT MOUNTED

Enclosure conforming to protection IP 55 Horizontal Foot Mounted (B3), continuously rated (S1) suitable for operation on 415+/- 10% V, 3 Phase 50Hz+/- 5% AC supply with ambient 45°C with Class "F" insulation with temperature rise limited to class F and altitude less than 1000 m above m.s.l. Efficiency values are conforming to IS12615 / IS/IEC 60034

### VFD Duty Application Motors - IE3

| OUTPUT Rating |     | 2 Pole / 3000 RPM |            | 4 Pole / 1500 RPM |            | 6 Pole / 1000 RPM |            | 8 Pole / 750 RPM |            |
|---------------|-----|-------------------|------------|-------------------|------------|-------------------|------------|------------------|------------|
| KW            | HP  | Frame             | List Price | Frame             | List Price | Frame             | List Price | Frame            | List Price |
| 250           | 335 | -                 | -          | -                 | -          | -                 | -          | NG355LX          | 2044350/-  |
| 315           | 422 | -                 | -          | -                 | -          | NG355LX           | 1858000/-  | NG355LX          | 2144675/-  |
| 355           | 476 | NG355LX           | On Request | NG355LX           | 1805925/-  | NG355LX           | 2180500/-  | NG400LX          | 2467175/-  |
| 375           | 503 | NG355LX           | On Request | NG355LX           | 1901025/-  | ND400LX           | 2538825/-  | NG400LX          | 2574675/-  |
| 400           | 535 | NG355LX           | On Request | NG355LX           | 2037175/-  | NG400LX           | 2753850/-  | NG400LX          | 2753850/-  |
| 425           | 570 | NG355LX           | On Request | ND400LX           | 2395525/-  | -                 | -          | -                | -          |
| 450           | 600 | NG400LX           | On Request | NG400LX           | 2538825/-  | NG400LX           | 2825500/-  | ND450LX          | 4036675/-  |
| 500           | 670 | NG400LX           | 2382975/-  | NG400LX           | 2610525/-  | NG400LX           | 2933025/-  | ND450LX          | 4323350/-  |
| 560           | 750 | NG400LX           | 2454650/-  | NG400LX           | 2753850/-  | NG400LX           | 3004675/-  | ND450LX          | On Request |
| 630           | 850 | NG400LX           | 2705475/-  | NG400LX           | 2897125/-  | ND450LX           | 3893325/-  | -                | -          |
| 710#          | 950 | -                 | -          | ND450LX           | On Request | ND500LX           | On Request | -                | -          |
| 710#          | 950 | -                 | -          | ND500LX           | On Request | -                 | -          | -                | -          |

#### Notes for VFD Duty Motors :

Above motors are suitable for Variable Torque Application.

Motors can be used for constant Torque Application after getting confirmation from Nearest CG Branch.

# Available with 690V Delta for any other voltage on Request.

Standard Paint Shade : RAL5021 (Water Blue) Epoxy

Motors are with Insulated bearings, RTD,BTD,Space heater

Motors fitted with Smart Motor Kit operates through wireless communication and provides following information on smart phone/Laptop

Tri-axial Vibration, Noise, Temperature and real time data can be recorded along with real time alerts

**Is Your Machine *Future Ready* ?**

**IIoT**

**Improve Efficiency**

**Avoid Breakdown**

The image shows a blue industrial motor with a Smart Motor Kit attached. To the right of the motor is a green circle with the text 'IIoT' and concentric lines representing wireless communication. Further right is a line graph with two lines: a green line that fluctuates and a blue line that trends upwards. The green line is labeled 'Improve Efficiency' and the blue line is labeled 'Avoid Breakdown'.

# Premium Efficiency IE3 & IE2 Flameproof Motors

  
**Apex Series**  
a green solution...

CE



## Serving Hazardous area with Wide Range

### ► FEATURES

- » High reliability
- » Robust Construction
- » IE2, IE3 as per IS 12615: 2018 and IEC 60034-30-1
- » Gas group I, IIA, IIB, IIC
- » Hazardous location such as Zone1, Zone2 or class 1, division 1 & 2

### ► APPLICATION

- |                   |                   |
|-------------------|-------------------|
| » Chemical Plants | » Petro Chemicals |
| » Oil Industry    | » Fertilizers     |
| » Gas Industry    | » Agro Chemicals  |
| » Coal Mines      |                   |

Over  
**4,50,00,000 UNITS**  
Energy saved every year  
by CG Motors



## FLAMEPROOF MOTORS - IE3

### TOTALLY ENCLOSED FAN COOLED SQUIRREL CAGE FLAME PROOF INDUCTION MOTORS

Enclosure conforming to protection IP 55 Horizontal Foot Mounted (B3), continuously rated (S1) suitable for operation on 415+/- 10% V, 3 Phase 50Hz+/- 5% AC supply with ambient 45°C ambient, Class "F" insulation with temperature rise limited to Class "B" and altitude less than 1000 m above m.s.l. Efficiency values are conforming to IS12615 / IS/IEC 60034, Motors are suitable for Temperature class T4.

| OUTPUT Rating |       | 2 Pole /3000 RPM |            | 4 Pole / 1500 RPM |            | 6 Pole / 1000 RPM |            |
|---------------|-------|------------------|------------|-------------------|------------|-------------------|------------|
| KW            | HP    | Frame            | List Price | Frame             | List Price | Frame             | List Price |
| 0.37          | 0.50  | E80              | 19850/-    | E80               | 19525/-    | E80               | 22650/-    |
| 0.55          | 0.75  | E80              | 22200/-    | E80               | 21525/-    | E80               | 23275/-    |
| 0.75          | 1.00  | E80              | 22875/-    | E80               | 22400/-    | E90L              | 27125/-    |
| 1.10          | 1.50  | E90L             | 25575/-    | E90L              | 24800/-    | E90L              | 27925/-    |
| 1.50          | 2.00  | E90L             | 26150/-    | E90L              | 27775/-    | E100L             | 40425/-    |
| 2.20          | 3.00  | E90L             | 35750/-    | E100L             | 35325/-    | E112M             | 46975/-    |
| 3.70          | 5.00  | E100L            | 45425/-    | E112M             | 44750/-    | E132M             | 62225/-    |
| 5.50          | 7.50  | E132M            | 64450/-    | E132M             | 61525/-    | E132M             | 75400/-    |
| 7.50          | 10.00 | E132M            | 71150/-    | E132M             | 70075/-    | E160L             | 116675/-   |
| 9.30          | 12.50 | E160L            | 128900/-   | E160L             | 108325/-   | E160L             | 136500/-   |
| 11            | 15    | E160L            | 128900/-   | E160L             | 108325/-   | E160L             | 142875/-   |
| 15            | 20    | E160L            | 144800/-   | E160L             | 131725/-   | E180L             | 182775/-   |
| 18.5          | 25    | E160L            | 164450/-   | E180L             | 149575/-   | E200L             | 227300/-   |
| 22            | 30    | E180L            | 195075/-   | E180L             | 177775/-   | E200L             | 246550     |
| 30            | 40    | E200L            | 262625/-   | E200L             | 238525/-   | E225M             | 404200/-   |
| 37            | 50    | E200L            | 340150/-   | E225S             | 310675/-   | E250M             | 496400/-   |
| 45            | 60    | E225M            | 431750/-   | E225M             | 392850/-   | E280M             | 576525/-   |
| 55            | 75    | E250M            | 528650/-   | E250M             | 481325/-   | E280M             | 621850/-   |
| 75            | 100   | E280M            | 649825/-   | E280M             | 589850/-   | E315M             | 729175/-   |
| 90            | 120   | E280M            | 702675/-   | E280M             | 601275/-   | E315M             | 855050/-   |
| 110           | 150   | E315M            | 814125/-   | E315M             | 717875/-   | E315L             | 937450/-   |
| 132           | 180   | E315M            | 965275/-   | E315M             | 868800/-   | E315L             | 1136325/-  |
| 160           | 215   | E315L#           | 1094350/-  | E315L#            | 912325/-   | E315L#            | 1431650/-  |
| 180           | 240   | E315L#           | 1312075/-  | E315L#            | 1092050/-  | E355LX            | 1552350/-  |
| 200           | 270   | E315L#           | 1630225/-  | E315L#            | 1302025/-  | E355LX            | 1634075/-  |
| 225           | 300   | E355LX#          | 2037800/-  | E355LX*           | 1721125/-  | -                 | -          |
| 250           | 335   | E355LX#          | 2139675/-  | E355LX*           | 1773525/-  | -                 | -          |

Motors with gas group I & IIC can also be offered on request with extra price ( Please refer special features section )

Gas group IIA, IIB E80, E315L & E355LX will be with T/B on TOP only

For all frames of Gas group IIC , terminal box position will be on top (no other option is available )

Gas Group IIC in not availbale in E315L frame

For E80 & E355LX-DGMS certificate is not available

# Suitable for 40 degree amd/80 degree Temp rise.

\*These are suitable to temperaturerise limited to class F

Temp rise with VFD in same frame shall be limited to class F .If customer required with rise B please refer to nearest branch.

160 to 250KW in 2 Pole AND 160&180KW 4 Pole are suitable for 40 degree amb/80 degree Temp rise

Standard paint shade : RAL 5021 ( Water Blue)

## FLAME PROOF IE2

### TOTALLY ENCLOSED FAN COOLED SQUIRREL CAGE FLAME PROOF INDUCTION MOTORS

Enclosure conforming to protection IP 55 Horizontal Foot Mounted (B3), continuously rated (S1) suitable for operation on 415+/- 10% V, 3 Phase 50Hz+/- 5% AC supply with ambient 45°C ambient, Class "F" insulation with temperature rise limited to Class "B" and altitude less than 1000 m above m.s.l. Efficiency values are conforming to IS12615 / IS/IEC 60034, Motors are suitable for Temperature class T4.

| OUTPUT Rating |       | 2 Pole /3000 RPM |            | 4 Pole / 1500 RPM |            | 6 Pole / 1000 RPM |            | 8 Pole /750 RPM |            |
|---------------|-------|------------------|------------|-------------------|------------|-------------------|------------|-----------------|------------|
| KW            | HP    | Frame            | List Price | Frame             | List Price | Frame             | List Price | Frame           | List Price |
| 0.37          | 0.50  | E80              | 17725/-    | E80               | 17425/-    | E80               | 20225/-    | E90L            | 24275/-    |
| 0.55          | 0.75  | E80              | 19825/-    | E80               | 19250/-    | E80               | 20800/-    | E90L            | 26275/-    |
| 0.75          | 1.00  | E80              | 20425/-    | E80               | 20000/-    | E90L              | 24225/-    | E100L           | 31800/-    |
| 1.10          | 1.50  | E90L             | 22850/-    | E90L              | 22850/-    | E90L              | 24950/-    | E100L           | 37000/-    |
| 1.50          | 2.00  | E90L             | 23350/-    | E90L              | 24800/-    | E100L             | 36100/-    | E112M           | 44375/-    |
| 2.20          | 3.00  | E90L             | 31925/-    | E100L             | 31525/-    | E112M             | 41950/-    | E132M           | 58650/-    |
| 3.70          | 5.00  | E100L            | 40575/-    | E112M             | 39950/-    | E132M             | 55575/-    | E160L           | 94875/-    |
| 5.50          | 7.50  | E132M            | 57550/-    | E132M             | 54950/-    | E132M             | 67350/-    | E160L           | 111500/-   |
| 7.50          | 10.00 | E132M            | 63550/-    | E132M             | 62575/-    | E160L             | 106675/-   | E160L           | 136000/-   |
| 9.30          | 12.50 | E160L            | 120025/-   | E160L             | 99025/-    | E160L             | 125500/-   | E180L           | 172875/-   |
| 11            | 15    | E160L            | 120025/-   | E160L             | 99025/-    | E160L             | 130650/-   | E180L           | 182100/-   |
| 15            | 20    | E160L            | 132400/-   | E160L             | 120450/-   | E180L             | 167100/-   | E200L           | 246150/-   |
| 18.5          | 25    | E160L            | 150350/-   | E180L             | 136750/-   | E200L             | 207825/-   | E225S           | 305575/-   |
| 22            | 30    | E180L            | 178375/-   | E180L             | 162550/-   | E200L             | 225450/-   | E225M           | 402175/-   |
| 30            | 40    | E200L            | 240125/-   | E200L             | 218100/-   | E225M             | 369575/-   | E250M           | 493925/-   |
| 37            | 50    | E200L            | 311000/-   | E225S             | 284050/-   | E250M             | 453875/-   | E280M           | 633850/-   |
| 45            | 60    | E225M            | 394775/-   | E225M             | 359200/-   | E280M             | 527125/-   | E280M           | 647300/-   |
| 55            | 75    | E250M            | 483375/-   | E250M             | 440075/-   | E280M             | 568575/-   | E315M           | 788700/-   |
| 75            | 100   | E280M            | 594150/-   | E280M             | 539325/-   | E315M             | 666700/-   | E315M           | 923750/-   |
| 90            | 120   | E280M            | 642475/-   | E280M             | 549775/-   | E315M             | 781800/-   | E315L           | 1011100/-  |
| 110           | 150   | E315M            | 744375/-   | E315M             | 656375/-   | E315L             | 857125/-   | E315L           | 1182500/-  |
| 125           | 170   | E315M            | 869150/-   | E315M             | 762600/-   | E315L             | 1018725/-  | E355LX          | 1209375/-  |
| 132           | 180   | E315M            | 882575/-   | E315M             | 794375/-   | E315L             | 1038975/-  | E355LX          | 1228975/-  |
| 150           | 200   | E315L            | 958450/-   | E315L             | 822375/-   | E315L             | 1136025/-  | E355LX          | 1290000/-  |
| 160           | 215   | E315L#           | 1000600/-  | E315L#            | 834175/-   | E315L#            | 1309025/-  | E355LX          | 1418025/-  |
| 180           | 240   | E315L#           | 1199650/-  | E315L#            | 998500/-   | E355LX            | 1419375/-  | E355LX          | 1478125/-  |
| 200           | 270   | E315L#           | 1490575/-  | E315L#            | 1190500/-  | E355LX            | 1494075/-  | E355LX          | 1610875/-  |
| 225           | 300   | E355LX#          | 1863225/-  | E355LX#           | 1680625/-  | E355LX            | 1720000/-  | E355LX          | 1773750/-  |
| 250           | 335   | E355LX#          | 1956375/-  | E355LX#           | 1731775/-  | E355LX            | 1843650/-  | E400LX          | 2742875/-  |
| 275           | 370   | E355LX#          | 2054175/-  | E355LX#           | 1771700/-  | E355LX            | 1854375    | -               | -          |
| 315           | 425   | E355LX#          | 2156925/-  | E355LX#           | 1945525/-  | -                 | -          | -               | -          |
| 325           | 435   | E355LX#          | 2212075/-  | E355LX#           | 1980700/-  | -                 | -          | -               | -          |
| 355           | 476   | E400LX*          | 3047625/-  | E400LX*           | 2742875/-  | -                 | -          | -               | -          |
| 375           | 503   | E400LX*          | 3278750/-  | E400LX*           | 2950875/-  | -                 | -          | -               | -          |
| 400           | 535   | E400LX*          | 3606625/-  | E400LX*           | 3245975/-  | -                 | -          | -               | -          |

#### Features of Flameproof Motors (IE2) :

In 400 frame - 6pole and above on request

Motors with gas group I & IIC can also be offered on request with extra price ( Please refer special features section )

For all frames of Gas group IIC, terminal box position will be on top (no other option is available)

Gas group IIA, IIB E80, E315L, E355LX & E400LX will be with T/B on TOP only

Gas Group IIC is not available in E315L & E400LX frame

For E80, E355LX & E400LX -DGMS certificate is not available

Smart Kit feature is not a default feature

#These are suitable for 40 degree amb/80 degree Temp rise.

\*These are suitable to temperature rise limited to class F.

Standard paint shade : RAL 7034 (Yellow Grey)Epoxy

Temp rise with VFD in same frame shall be limited to class F .If customer required with rise B please refer to nearest branch.



## UL Listed Motors



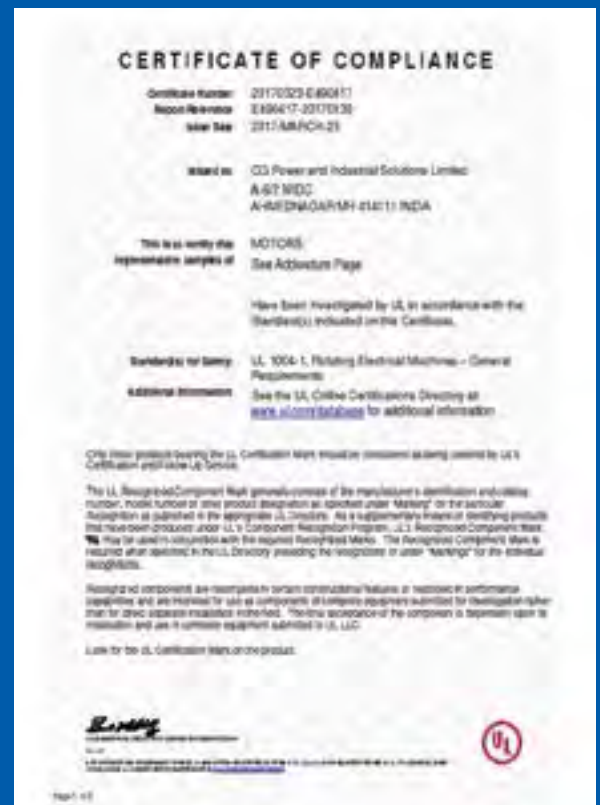
UL (Underwriters Laboratories) is a global independent safety science company to promote safe living and working environments around the world.

- **The certificate proves that the motors are according to the following standards for safety:**
  - » UL 1004-1 Rotating Electrical Machines - General Requirements
  - » UL 1004-5 – Fire fighting motors
  - » UL listed fire fighting motors with special paint :post box Red ACP-536 , ACP -538

## ► APPLICATION

- » Oil Well pump
- » HVAC & Refrigeration
- » Atomic power station
- » Power generation plant
- » Paint factories
- » Fire fighting pumps

**UL Listed Certified**





## UL LISTED HIGH EFFICIENCY - IE2

### TOTALLY ENCLOSED FAN COOLED SQUIRREL CAGE 3 PH INDUSTION MOTORS - FOOT MOUNTED

Squirrel cage Induction Motors with Enclosure conforming to protection IP 55 Horizontal Foot Mounted (B3), continuously rated (S1) suitable for operation on 415+/- 10% V, 3 Phase 50Hz+/- 5% AC supply with ambient 50°C, Class "F" insulation with temperature rise limited to Class "B" altitude less than 1000 m above m.s.l. Performance Efficiency values are conforming to IS12615 / IS/IEC 60034

| OUTPUT Rating |       | 2 Pole / 3000 RPM |            | 4 Pole / 1500 RPM |            | 6 Pole / 1000 RPM |            | 8 Pole / 750 RPM |            |
|---------------|-------|-------------------|------------|-------------------|------------|-------------------|------------|------------------|------------|
| KW            | HP    | Frame             | List Price | Frame             | List Price | Frame             | List Price | Frame            | List Price |
| 0.37          | 0.50  | -                 | -          | -                 | -          | -                 | -          | ND90S            | 13450/-    |
| 0.55          | 0.75  | -                 | -          | -                 | -          | -                 | -          | ND90L            | 14725/-    |
| 0.75          | 1.00  | ND80              | 10425/-    | ND80              | 10825/-    | ND90S             | 13075/-    | ND100L           | 18100/-    |
| 1.10          | 1.50  | ND80              | 11325/-    | ND90S             | 13375/-    | ND90L             | 14325/-    | ND100L           | 22025/-    |
| 1.50          | 2.00  | ND90S             | 13000/-    | ND90L             | 16200/-    | ND100L            | 20625/-    | ND112M           | 25525/-    |
| 2.20          | 3.00  | ND90L             | 16675/-    | ND100L            | 19300/-    | ND112M            | 22000/-    | ND132S           | 33775/-    |
| 3.70          | 5.00  | ND100L            | 20675/-    | ND112M            | 24450/-    | ND132S            | 34225/-    | ND160M           | 52575/-    |
| 4.00          | 5.50  | ND112M            | 27950/-    | -                 | -          | -                 | -          | -                | -          |
| 5.50          | 7.50  | ND132S            | 35250/-    | ND132S            | 33950/-    | ND132M            | 42100/-    | ND160M           | 65700/-    |
| 7.50          | 10.00 | ND132S            | 38275/-    | ND132M            | 36475/-    | ND160M            | 64250/-    | ND160L           | 83300/-    |
| 9.30          | 12.50 | ND132M            | 55750/-    | NG132M            | 53075/-    | -                 | -          | -                | -          |
| 9.30          | 12.50 | ND160M            | 64500/-    | ND160M            | 64850/-    | ND160L            | 70000/-    | ND180M           | 108325/-   |
| 11            | 15    | ND160M            | 68075/-    | ND160M            | 65450/-    | ND160L            | 79050/-    | ND180L           | 114225/-   |
| 15            | 20    | ND160M            | 73175/-    | ND160L            | 80800/-    | ND180L            | 103275/-   | ND200L           | 160800/-   |
| 18.5          | 25    | ND160L            | 94000/-    | ND180M            | 103375/-   | ND200L            | 147425/-   | ND225S           | 206350/-   |
| 22            | 30    | ND180M            | 105625/-   | ND180L            | 113200/-   | ND200L            | 158725/-   | ND225M           | 248100/-   |
| 30            | 40    | ND200L            | 155050/-   | ND200L            | 156200/-   | ND225M            | 226875/-   | ND250M           | 334950/-   |
| 37            | 50    | ND200L            | 188250/-   | ND225S            | 182650/-   | ND250M            | 305050/-   | ND280S           | 436800/-   |
| 45            | 60    | ND225M            | 242275/-   | ND225M            | 221375/-   | ND280S            | 365375/-   | ND280M           | 504725/-   |
| 55            | 75    | ND250MX           | 326150/-   | ND250MX           | 304200/-   | ND280M            | 419600/-   | ND315S           | 611575/-   |
| 75            | 100   | ND280S            | 407275/-   | ND280S            | 370275/-   | ND315S            | 512475/-   | ND315M           | 759400/-   |
| 90            | 120   | ND280M            | 469850/-   | ND280M            | 431275/-   | ND315M            | 641225/-   | ND315L           | 860925/-   |
| 110           | 150   | ND315S            | 607200/-   | ND315S            | 534500/-   | ND315M            | 715025/-   | ND315LX          | 911400/-   |
| 125           | 170   | ND315M            | 712475/-   | ND315M            | 608900/-   | ND315LX           | 779350/-   | ND315LX          | 1001350/-  |
| 132           | 180   | ND315M            | 746275/-   | ND315M            | 626300/-   | ND315LX           | 834700/-   | ND315LX          | 1055925/-  |
| 160           | 215   | ND315LX           | 817500/-   | ND315LX           | 734825/-   | ND315LX           | 869125/-   | ND355LX          | 1226825/-  |
| 180           | 240   | ND315LX           | 860575/-   | ND315LX           | 781575/-   | ND355LX           | 958575/-   | ND355LX          | 1258700/-  |
| 200           | 270   | ND315LX           | 954425/-   | ND315LX           | 892025/-   | ND355LX           | 1030725/-  | ND355LX          | 1348400/-  |
| 225           | 300   | ND355LX*          | 1074700/-  | ND355LX           | 1025950/-  | ND355LX           | 1061650/-  | ND355LX          | 1915825/-  |
| 250           | 335   | ND355LX*          | 1100700/-  | ND355LX           | 1088550/-  | ND355LX           | 1135125/-  | -                | -          |
| 275           | 370   | ND355LX*          | 1131800/-  | ND355LX           | 1189950/-  | ND355LX*          | 1379675/-  | -                | -          |
| 315           | 425   | ND355LX*          | 1159000/-  | ND355LX*          | 1277225/-  | ND355LX*          | 1707950/-  | -                | -          |
| 355           | 473   | -                 | -          | ND355LX*          | 1551675/-  | -                 | -          | -                | -          |
| 375           | 500   | -                 | -          | ND355LX*          | 1773075/-  | -                 | -          | -                | -          |

\*These are suitable to temperature rise limited to class F.

For other ratings please contact nearest CG Office

Standard Paint Shade : RAL7034 (Yellow Grey)

For UL Listed Fire Fighting Motors, contact nearest branch office.

## NEEMA MOTORS - PREMIUM SERIES

### TOTALLY ENCLOSED FAN COOLED SQUIRREL CAGE 3 PH INDUCTION MOTORS-FOOT MOUNTED

208-230/460 Volt or 575 V 60 Hz, Ambient 40 degree ,class F insulation with class B temp rise. As per NEMA MG-1

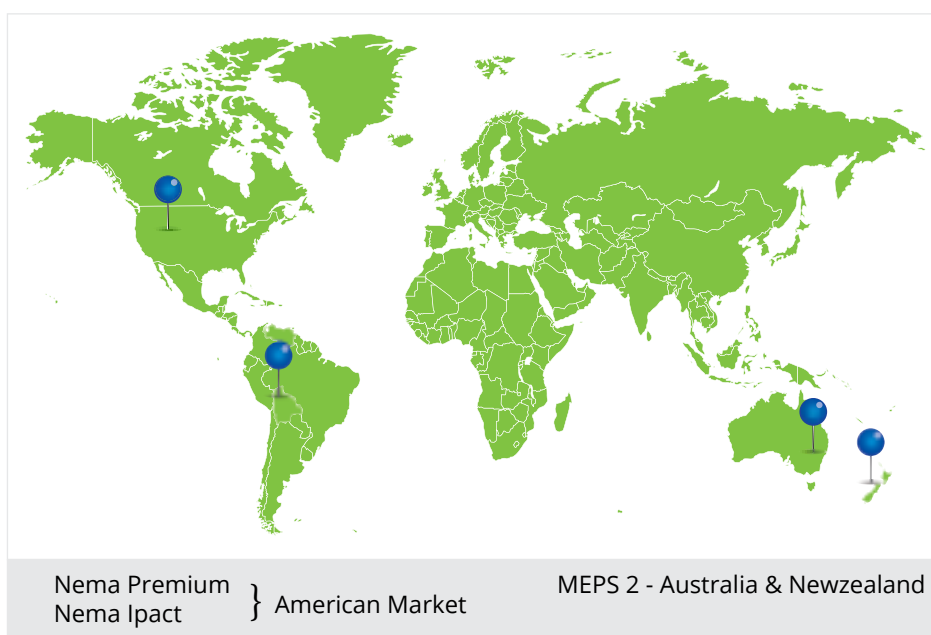
| OUTPUT Rating |       | 2 Pole / 3600 RPM |            | 4 Pole / 1800 RPM |            | 6 Pole / 1200 RPM |            |
|---------------|-------|-------------------|------------|-------------------|------------|-------------------|------------|
| KW            | HP    | Frame             | List Price | Frame             | List Price | Frame             | List Price |
| 0.75          | 1.00  | 143T              | 14900/-    | 143T              | 16725/-    | 145T              | 17550/-    |
| 1.10          | 1.50  | 143T              | 17675/-    | 145T              | 17150/-    | 182T              | 31250/-    |
| 1.50          | 2.00  | 145T              | 18125/-    | 145T              | 19025/-    | 184T              | 32800/-    |
| 2.20          | 3.00  | 182T              | 31800/-    | 182T              | 32125/-    | 213T              | 50650/-    |
| 3.70          | 5.00  | 184T              | 34550/-    | 184T              | 35050/-    | 215T              | 55025/-    |
| 5.50          | 7.50  | 213T              | 49000/-    | 213T              | 54025/-    | 254T              | 91125/-    |
| 7.50          | 10.00 | 215T              | 52600/-    | 215T              | 58175/-    | 256T              | 103325/-   |
| 11.00         | 15.00 | 254T              | 80750/-    | 254T              | 86950/-    | 284T              | 147875/-   |
| 15.00         | 20.00 | 256T              | 87575/-    | 256T              | 96675/-    | 286T              | 151175/-   |
| 18.50         | 25.00 | 284TS             | 133600/-   | 284T              | 147225/-   | 324T              | 202850/-   |
| 22            | 30    | 286TS             | 135200/-   | 286T              | 153825/-   | 326T              | 212850/-   |
| 30            | 40    | 324TS             | 203000/-   | 324T              | 224825/-   | 364T              | 325275/-   |
| 37            | 50    | 326TS             | 214050/-   | 326T              | 251175/-   | 365T              | 364825/-   |
| 45            | 60    | 364TS             | 301775/-   | 364T              | 316275/-   | 404T              | 403200/-   |
| 55            | 75    | 365TS             | 336925/-   | 365T              | 347050/-   | 405T              | 429550/-   |
| 75            | 100   | 405TS             | 432025/-   | 405T              | 432750/-   | -                 | -          |

Standard paint shade : RAL 5021 (Water Blue )

NEMA- C Flange in addition to foot 8 %

NEMA- C Flange without foot 5 %

| NEMA FRAME | EQUIVALENT IEC FRAME |
|------------|----------------------|
| 143T       | 90S                  |
| 145T       | 90L                  |
| 184T       | 112M                 |
| 213T       | 132S                 |
| 215T       | 132M                 |
| 254T       | 160M                 |
| 256T       | 160L                 |
| 284T       | 180M                 |
| 286T       | 180L                 |
| 324T       | 200L                 |
| 364T       | 225S                 |
| 365T       | 225M                 |
| 405T       | 250M                 |
| 444T       | 280S                 |
| 447T       | 280M                 |



# Slip Ring Motors



## Reliability with High Torque

### ► FEATURES

- » High starting torque
- » Low starting current
- » RV/RA as per customer requirement
- » High reliability & interchangeability
- » Ease of maintenance
- » Dust proof slipring enclosure
- » With cover for inspection
- » Epoxy moulded slipring

## TEFC SLIPRING MOTORS

### TOTALLY ENCLOSED FAN COOLED 3 PH SLIP RING INDUCTION MOTORS

Enclosure conforming to protection IP 55 Horizontal Foot Mounted (B3), continuously rated (S1) suitable for operation on 415+/- 10% V, 3 Phase 50Hz+/- 5% AC supply with ambient 45°C, Class "F" insulation with temperature rise limited to Class "B" and altitude less than 1000 m above m.s.l. conforming to IS12615 / IS/IEC 60034

| OUTPUT Rating |        | 4 Pole / 1500 RPM |            | 6 Pole / 1000 RPM |            | 8 Pole / 750 RPM |            |
|---------------|--------|-------------------|------------|-------------------|------------|------------------|------------|
| KW            | HP     | Frame             | List Price | Frame             | List Price | Frame            | List Price |
| 2.20          | 3.00   | -                 | -          | DW132S            | 77350/-    | -                | -          |
| 3.00          | 4.00   | DW132S            | 74925/-    | DW132S            | 81375/-    | NDW160M          | 111500/-   |
| 3.70          | 5.00   | DW132S            | 76625/-    | DW132M            | 85475/-    | NDW160M          | 115475/-   |
| 5.50          | 7.50   | DW132M            | 78225/-    | NDW160M           | 104275/-   | NDW160L          | 129425/-   |
| 7.50          | 10.00  | NDW160M           | 103575/-   | NDW160L           | 130075/-   | NDW180L          | 176000/-   |
| 11.00         | 15.00  | NDW160L           | 129600/-   | NDW180L           | 168900/-   | NDW200L          | 230600/-   |
| 15.00         | 20.00  | NDW180L           | 171525/-   | NDW200L           | 220450/-   | NDW225M          | 296500/-   |
| 18.50         | 25.00  | NDW200L           | 197325/-   | NDW225M           | 284275/-   | NDW225M          | 342875/-   |
| 22.00         | 30.00  | NDW200L           | 219225/-   | NDW225M           | 339700/-   | NDW250M          | 447525/-   |
| 30.00         | 40.00  | NDW225M           | 270800/-   | NDW250M           | 449225/-   | NDW280S          | 516325/-   |
| 37            | 50     | NDW250M           | 371325/-   | NDW280S           | 508625/-   | NDW280M          | 592225/-   |
| 45            | 60     | NDW250M           | 443825/-   | NDW280M           | 552650/-   | NDW315S          | 727925/-   |
| 55            | 75     | NDW280S           | 489150/-   | NDW315S           | 616275/-   | NDW315M          | 842475/-   |
| 75            | 100    | NDW280M           | 543125/-   | NDW315M           | 778425/-   | NDW315LX         | 927475/-   |
| 90            | 120    | NDW315S           | 677125/-   | NDW315LX          | 863150/-   | NDW315LX         | 1096975/-  |
| 110           | 150    | NDW315M           | 782375/-   | NDW315LX          | 1024475/-  | NDW355LX         | 1168350/-  |
| 125           | 170    | NDW315LX          | 860600/-   | NDW315LX          | 1112500/-  | NDW355LX         | 1299625/-  |
| 132.00        | 180.00 | NDW315LX          | 907125/-   | -                 | -          | -                | -          |
| 150           | 200    | NDW315LX          | 1029225/-  | NDW355LX          | 1192650/-  | NDW355LX         | 1430425/-  |
| 160           | 215    | NDW315LX          | 1051400/-  | NDW355LX          | 1272125/-  | NDW355LX         | 1449325/-  |
| 180           | 240    | NDW355L           | 1112350/-  | NDW355LX          | 1351625/-  | NDW400LX         | 2353400/-  |
| 200           | 270    | NDW355L           | 1235950/-  | NDW355LX*         | 1464275/-  | NDW400LX         | 2614675/-  |
| 225           | 300    | NDW355LX          | 1302375/-  | NDW400LX          | 2872500/-  | NDW400LX *       | 2941525/-  |
| 250           | 335    | NDW355LX          | 1318525/-  | NDW400LX          | 3191650/-  | NDW450LX*        | 4400000/-  |
| 275           | 370    | NDW355LX          | 1398325/-  | NDW400LX          | 3510825/-  | NDW450LX*        | 4840000/-  |
| 300           | 402    | NDW400LX          | 2660425/-  | NDW400LX          | 3829925/-  | NDW450LX*        | 5324000/-  |
| 315           | 436    | NDW400LX          | 2793450/-  | NDW400LX          | 4149100/-  | NDW450LX*        | 5856400/-  |
| 350           | 470    | NDW400LX          | 3103825/-  | NDW450LX*         | 4436000/-  | NDW450LX*        | 6324912/-  |
| 370           | 500    | NDW400LX *        | On Request | NDW450LX*         | 4879600/-  | NDW450LX*        | 6830905    |
| 450           | 600    | -                 | 0          | NDW450LX*         | 5367560/-  | NDW450LX*        | 7377377/-  |

\*These are suitable for temperature rise limited to class F.  
Standard Paint Shade -631 (IS 5) Light Green.

## SPDP SLIPRING MOTORS

### SCREEN PROTECTED DRIP PROOF SLIP RING INDUCTION MOTORS

Enclosure conforming to protection IP 21 /23 Horizontal Foot Mounted (B3),continuously rated (S1) suitable for operation on 415+/- 10% V,3 Phase 50Hz+/- 5% AC supply with ambient 45°C,Class "F" insulation with temperature rise limited to Class "B" and altitude less than 1000 m above m.s.l. conforming to IS12615 / IS/IEC 60034

| OUTPUT Rating |     | 4 Pole / 1500 RPM |            | 6 Pole / 1000 RPM |            | 8 Pole / 750 RPM |            |
|---------------|-----|-------------------|------------|-------------------|------------|------------------|------------|
| KW            | HP  | Frame             | List Price | Frame             | List Price | Frame            | List Price |
| 3.7           | 5   | -                 | -          | -                 | -          | CW160M           | 96925/-    |
| 5.5           | 7.5 | -                 | -          | CW160M            | 94975/-    | CW160L           | 103225/-   |
| 7.5           | 10  | CW160M            | 95525/-    | CW160L            | 110800/-   | CW180M           | 142400/-   |
| 11            | 15  | CW160L            | 106400/-   | CW180M            | 142350/-   | CW180L           | 166750/-   |
| 15            | 20  | CW180M            | 141400/-   | CW180L            | 156875/-   | CW200M           | 206325/-   |
| 18.5          | 25  | CW180M            | 145200/-   | CW200M            | 212725/-   | CW200L           | 216950/-   |
| 22            | 30  | CW180L            | 156075/-   | CW200L            | 222050/-   | CW225M           | 285550/-   |
| 30            | 40  | CW200M            | 199225/-   | CW225M            | 282400/-   | CW225M           | 316975/-   |
| 37            | 50  | CW200L            | 216600/-   | CW225M            | 303125/-   | CW250S           | 399725/-   |
| 45            | 60  | CW225M            | 264425/-   | CW250S            | 393925/-   | CW250M           | 458850/-   |
| 55            | 75  | CW250S            | 356475/-   | CW250M            | 439150/-   | CW280S           | 556800/-   |
| 75            | 100 | CW250S            | 374325/-   | CW280S            | 534450/-   | CW280M           | 608150/-   |
| 90            | 120 | CW250MX           | 456300/-   | CW280M            | 638650/-   | CW315S*          | 774850/-   |
| 110           | 150 | CW280M            | 510075/-   | CW315S*           | 746200/-   | CW315MX*         | 838475/-   |
| 125           | 170 | CW280MX*          | 633750/-   | CW315MX*          | 837025/-   | CW355L           | 882550/-   |
| 132           | 180 | CW280MX*          | 665450/-   | CW315MX*          | 859000/-   | CW355L           | 931950/-   |
| 150           | 200 | CW315S*           | 778075/-   | CW315MX*          | 938475/-   | CW355L           | 1157125/-  |
| 160           | 215 | CW315M*           | 719925/-   | CW315MX*          | 951975/-   | CW355L           | 1303625/-  |
| 180           | 240 | CW315MX*          | 905650/-   | CW355L            | On Request | CW355L           | 1379750/-  |
| 200           | 270 | CW315MX*          | 1045250/-  | CW355L            | On Request | CW355L           | 1492950/-  |
| 225           | 300 | CW315MX*          | 1046100    | CW355L            | On Request | CW400LX          | 2292650/-  |
| 250           | 335 | CW355L            | On Request | CW355L            | On Request | CW400LX          | 2405475/-  |
| 275           | 369 | CW355L            | On Request | CW355L            | On Request | -                | -          |
| 300           | 402 | CW355L            | On Request | CW400LX           | On Request | -                | -          |
| 325           | 435 | CW355L            | On Request | CW400LX           | On Request | -                | -          |
| 350           | 470 | CW355L            | On Request | -                 | -          | -                | -          |

| OUTPUT Rating |     | 10 Pole / 600 RPM |            |
|---------------|-----|-------------------|------------|
| KW            | HP  | Frame             | List Price |
| 110           | 150 | CW315MX*          | 1248425/-  |
| 125           | 170 | CW355L            | 1611025/-  |
| 150           | 200 | CW355L            | 1836500/-  |
| 160           | 215 | CW355L            | 1917500/-  |
| 180           | 240 | CW355L            | 1999400/-  |
| 200           | 270 | CW400LX           | 2315200/-  |
| 225           | 300 | CW400LX           | 2558050/-  |

\* These are with fabricated body. Charge 20% Over above given LP

Motors are with roller bearing as inbuilt feature from frame 225 and above

Position of terminal box on RHS when viewed from from DE  
Standard Paint Shade : 631 (IS 5) Light Green



# Crane Duty Motors



## Optimize Crane Productivity

### ► FEATURES

- » Higher output
- » Suitable for 50° C ambient
- » Higher pullout torque
- » Lowest vibration level

### ► APPLICATION

- » Rolling mill
- » Material handling
- » Hoisting application

## TOTALLY ENCLOSED FAN COOLED SQUIRREL CAGE CRANE DUTY IE2 MOTORS

### TOTALLY ENCLOSED FAN COOLED SQUIRREL CAGE CRANE DUTY IE2 MOTORS

MOUNTING : FOOT

VOLTAGE : 415 V  $\pm$  10%FREQUENCY: 50 Hz  $\pm$  5%

COMBINED : 10% (ABSOLUTE SUM)

AMBIENT : 50 °C

Applicable Standards : IS/IEC 60034-30-1, IS 12615 : 2018; IS1231, IS2223

PROTECTION : IP55

RATING : S3/S4 (AS PER IEC 60034)

DUTY : INTERMITTENT

INSULATION : CLASS F, TEMP RISE - CLASS B

40% CDF, 150 Starts stops per Hr

| OUTPUT Rating |       | 4 Pole / 1500 RPM |            | 6 Pole / 1000 RPM |            | 8 Pole / 750 RPM |            |
|---------------|-------|-------------------|------------|-------------------|------------|------------------|------------|
| KW            | HP    | Frame             | List Price | Frame             | List Price | Frame            | List Price |
| 0.37          | 0.50  | GD71              | 6875/-     | ND80              | 10275/-    | ND90S            | 12500/-    |
| 0.55          | 0.75  | ND80              | 9450/-     | ND80              | 10550/-    | ND90L            | 13675/-    |
| 0.75          | 1.00  | ND80              | 9600/-     | ND90S             | 11875/-    | ND100L           | 16825/-    |
| 1.10          | 1.50  | ND90S             | 11850/-    | ND90L             | 13025/-    | ND100L           | 20475/-    |
| 1.50          | 2.00  | ND90L             | 14375/-    | ND100L            | 18750/-    | ND112M           | 23725/-    |
| 2.20          | 3.00  | ND100L            | 17125/-    | ND112M            | 19975/-    | ND132S           | 31400/-    |
| 3.70          | 5.00  | ND112M            | 21700/-    | ND132S            | 31100/-    | ND160M           | 48900/-    |
| 5.50          | 7.50  | ND132S            | 30150/-    | ND132M            | 38250/-    | ND160M           | 61100/-    |
| 7.50          | 10.00 | ND132M            | 35625/-    | ND160M            | 58375/-    | ND160L           | 77475/-    |
| 9.30          | 12.50 | NG132M            | 47100/-    | -                 | -          | ND180M           | 100750/-   |
| 9.30          | 12.50 | ND160M            | 57575/-    | ND160L            | 63625/-    | -                | -          |
| 11            | 15    | ND160M            | 59475/-    | ND160L            | 71850/-    | ND180L           | 106250/-   |
| 15            | 20    | ND160L            | 71725/-    | ND180L            | 93850/-    | ND200L           | 149575/-   |
| 18.5          | 25    | ND180M            | 91775/-    | ND200L            | 134000/-   | ND225S           | 191950/-   |
| 22            | 30    | ND180L            | 100525/-   | ND200L            | 144300/-   | ND225M           | 230775/-   |
| 30            | 40    | ND200L            | 138700/-   | ND225M            | 206225/-   | ND250M           | 311575/-   |
| 37            | 50    | ND225S            | 162175/-   | ND250M            | 277300/-   | ND280S           | 406325/-   |
| 45            | 60    | ND225M            | 196575/-   | ND280S            | 332150/-   | ND280M           | 469500/-   |



## TOTALLY ENCLOSED FAN COOLED SLIPRING CRANE DUTY MOTORS

### TOTALLY ENCLOSED FAN COOLED SLIPRING CRANE DUTY MOTORS

MOUNTING: FOOT

VOLTAGE: 415 V  $\pm$  10%

FREQUENCY: 50Hz  $\pm$  5%

COMBINED: 10% (ABSOLUTE SUM)

AMBIENT: 50°C 40% CDF, 150 Starts Stops per Hr

PROTECTION: IP55

RATING: S3 / S4 (AS PER IEC 60034)

DUTY : INTERMITTENT

INSULATION: CLASS F, TEMP RISE-CLASS

| OUTPUT Rating |       | 6 Pole / 1000 RPM |            |
|---------------|-------|-------------------|------------|
| KW            | HP    | Frame             | List Price |
| 1.8           | 2.41  | NDW112M           | 54850/-    |
| 2.6           | 3.50  | DW132S            | 72225/-    |
| 4.5           | 6.03  | DW132M            | 86275/-    |
| 6.7           | 9.00  | NDW160M           | 97900/-    |
| 9.0           | 12.07 | NDW160L           | 121100/-   |
| 13.2          | 17.50 | NDW180L           | 182225/-   |
| 17.6          | 23.60 | NDW200L           | 239575/-   |
| 24.6          | 33.00 | NDW225S           | 296300/-   |
| 30.5          | 41.00 | NDW225M           | 365650/-   |
| 36.0          | 48.28 | NDW250S           | 457025/-   |
| 42.0          | 56    | NDW250M           | 551600/-   |
| 53.5          | 72    | NDW280S           | 606750/-   |
| 66.5          | 89    | NDW280M           | 709175/-   |
| 93.0          | 126   | NDW315S           | 847825/-   |
| 116.0         | 156   | NDW315M           | 961300/-   |

| OUTPUT Rating |       | 8 Pole / 750 RPM |            |
|---------------|-------|------------------|------------|
| KW            | HP    | Frame            | List Price |
| 1.7           | 2.3   | DW132S           | 77550/-    |
| 2.5           | 3.4   | DW132M           | 104200/-   |
| 4.8           | 6.4   | NDW160M          | 112900/-   |
| 6.7           | 9.00  | NDW160L          | 140600/-   |
| 9.30          | 11.00 | NDW180L          | 188700/-   |
| 13.5          | 18.0  | NDW200L          | 245850/-   |
| 20.2          | 27.2  | NDW225S          | 319625/-   |
| 26.0          | 35.0  | NDW225M          | 365650/-   |
| 31.5          | 42.2  | NDW250S          | 445200/-   |
| 37            | 50    | NDW250MX         | 554400/-   |
| 48.0          | 64.0  | NDW280S          | 619350/-   |
| 59.0          | 79.0  | NDW280M          | 674500/-   |
| 72.0          | 96.0  | NDW315S          | 904575/-   |
| 86.0          | 115.3 | NDW315M          | 981800/-   |

| OUTPUT Rating |       | 10 Pole / 600 RPM |            |
|---------------|-------|-------------------|------------|
| KW            | HP    | Frame             | List Price |
| 15            | 20    | NDW225S           | 299925/-   |
| 18.5          | 25    | NDW225M           | 351450/-   |
| 22.00         | 30.00 | NDW250M           | 449225/-   |
| 38.00         | 51.00 | NDW280S           | 669775/-   |
| 46.50         | 62.00 | NDW280M           | 732800/-   |
| 60.00         | 80.00 | NDW315S           | 932950/-   |
| 66.00         | 88.00 | NDW315M           | 977525/-   |

Terminal position in on TOP as a standard for this series  
 On Request terminal box position can be given on LHS/  
 RHS (Not applicable for DW132S & DW132M)  
 Standard Paint Shade : RAL7034 (Yellow Grey)  
 For other ratings, please refer pricing guideline section



## TEXTILE APPLICATION MOTORS

### TOTALLY ENCLOSED FAN COOLED SQUIRREL CAGE INDUCTION MOTORS FOR TEXTILE APPLICATIONS

Enclosure conforming to protection IP 54 Horizontal Foot Mounted (B3), continuously rated (S1) suitable for operation on 415+/- 10% V, 3 Ph 50Hz+/- 5% AC supply with ambient 45°C, Class "F" insulation with temp. rise limited to Class "B" and altitude less than 1000 m above m.s.l. conforming to IS12615 / IS/IEC 60034 with clean flow construction.

#### FOR LOOM / WEAVING APPLICATION ( TE ) / TB ON RHS

| OUTPUT Rating |      | 6 Pole / 1000 RPM |            | 8 Pole / 750 RPM |            |
|---------------|------|-------------------|------------|------------------|------------|
| KW            | HP   | Frame             | List Price | Frame            | List Price |
| 0.75          | 1.00 | NR90L             | 14075      | R112M            | 15475/-    |
| 1.10          | 1.50 | R112M             | 16375      | R112M            | 20375/-    |
| 1.50          | 2.00 | R112M             | 18800      | R132S            | 21650/-    |

#### CARD APPLICATION ( TE ) / TB ON TOP

| OUTPUT Rating |      | 6 Pole / 1000 RPM |            |
|---------------|------|-------------------|------------|
| KW            | HP   | Frame             | List Price |
| 0.75          | 1.00 | NR90L             | 11525/-    |
| 1.10          | 1.50 | R112M             | 21275/-    |
| 1.50          | 2.00 | R112M             | 25850/-    |

#### GINNING APPLICATION ( TEFC ) / TB ON RHS

| OUTPUT Rating |       | 4 Pole / 1500 RPM |            |
|---------------|-------|-------------------|------------|
| KW            | HP    | Frame             | List Price |
| 2.20          | 3.00  | ND100L            | 17500/-    |
| 3.00          | 4.00  | ND112M            | 20500/-    |
| 3.70          | 5.00  | ND132S            | 25210/-    |
| 5.50          | 7.50  | ND132S            | 30130/-    |
| 7.50          | 10.00 | ND132M            | 35890/-    |

**RING FRAME, TEXTILE MOTOR :** TB TOP, AMBIENT :45°C, RISE 75°C , IS12615 / IS/IEC 60034  
ROLLER BEARING AT DE FOR 160 FR. AND ABOVE TO SUSTAIN HIGHER RADIAL LOAD

| OUTPUT Rating |       | 4 Pole / 1500 RPM |            |
|---------------|-------|-------------------|------------|
| KW            | HP    | Frame             | List Price |
| 3.70          | 5.00  | ND112M            | 26400/-    |
| 5.50          | 7.50  | ND132S            | 36175/-    |
| 7.50          | 10.00 | ND132M            | 42375/-    |
| 9.30          | 12.50 | ND160M            | 66900/-    |
| 11.00         | 15.00 | ND160M            | 69000/-    |
| 13.00         | 17.50 | ND160L            | 83425/-    |
| 15.00         | 20.00 | ND160L            | 85750/-    |
| 18.50         | 25.00 | ND180M            | 120725/-   |
| 22.00         | 30.00 | ND180L            | 128625/-   |
| 30.00         | 40.00 | ND200L            | 173525/-   |
| 37.00         | 50.00 | ND225S            | 223100/-   |
| 45.00         | 60.00 | ND225M            | 270425/-   |

| OUTPUT Rating |      | 6 POLE : 1000 RPM |            |
|---------------|------|-------------------|------------|
| KW            | HP   | Frame             | List Price |
| 3.70          | 5.00 | ND132S            | 38500/-    |
| 5.50          | 7.50 | ND132M            | 42950/-    |



Standard Paint Shade : RAL7034 (Yellow Grey)



# Crusher Duty Motors



## Design for Outdoor Application

### ► FEATURES

- » Robust with better performance.
- » Energy efficient, meets the requirements of IS12615:2018
- » High grade material & stronger construction
- » EN24 forged shaft caters higher impact loads
- » Special TB for dust protection
- » Stronger stator body with higher thickness
- » Labyrinth seal to arrest dust entry

### ► APPLICATION

- » Mining
- » Crushing (Cone crusher, Gyratory crusher, Jaw crusher, Roller crusher, Impactors, Pulverisers, etc.)
- » Construction Equipment



## CRUSHER DUTY

### TOTALLY ENCLOSED FAN COOLED CRUSHER DUTY MOTORS

MOUNTING : FOOT  
 VOLTAGE: 415 V  $\pm$  10%  
 FREQUENCY : 50Hz  $\pm$  5%  
 AMBIENT : 50°C

operation on  
 class "B" and

PROTECTION :IP55  
 RATING: S1  
 DUTY : CONTINUOUS  
 INSULATION : CLASS F, TEMP RISE-CLASS B  
 EFFICIENCY CLASS : IE2

| OUTPUT Rating |     | 4 Pole / 1500 RPM |            | 6 Pole / 1000 RPM |            |
|---------------|-----|-------------------|------------|-------------------|------------|
| KW            | HP  | Frame             | List Price | Frame             | List Price |
| 45            | 60  | ND225M            | 223600/-   | -                 | -          |
| 55            | 75  | ND250M            | 307300/-   | ND280M            | 423825/-   |
| 75            | 100 | ND280S            | 374000/-   | ND315S            | 517625/-   |
| 90            | 120 | ND280M            | 435625/-   | ND315M            | 647700/-   |
| 110           | 150 | ND315S            | 539900/-   | ND315M            | 722250/-   |
| 125           | 175 | ND315M            | 615050/-   | ND315L            | 787225/-   |
| 132           | 180 | ND315M            | 632625/-   | ND315LX           | 843125/-   |
| 160           | 215 | ND315LX           | 742250/-   | ND315LX           | 877900/-   |
| 180           | 240 | ND315LX           | 789475/-   | ND355LX           | 968250/-   |
| 200           | 270 | ND315LX           | 901025/-   | ND355LX           | 1041125/-  |
| 225           | 300 | ND355LX           | 1068525/-  | ND355LX           | 1072375/-  |
| 250           | 335 | ND355LX           | 1099550/-  | ND355LX           | 1146600/-  |

#### Non-Std Features

EN24 Shaft  
 Roller bearing at DE (for 4 & 6 Pole)  
 Space Heater (280 Frame & Above)  
 PTC150C-3 Nos (280 Frame & Above)  
 VPI & Epoxy gel coat on overhang  
 Standard Paint Shade : RAL7034 (Yellow Grey)





## Safety at its Best

### ► FEATURES

- » External brakes for easy maintenance
- » DC & AC brake options
- » S4 duty brake motor available
- » Flameproof brake motors can be offered
- » Higher safety factor

All standard brake motors are provided with external DC spring applied fail safe brake "normally on" Which is having excellent features:

- |                                      |                                      |
|--------------------------------------|--------------------------------------|
| 1 Power saver                        | 2 Fast engagement and dis-engagement |
| 3 Low heating of brake               | 4 Enhanced liner life                |
| 5 Dust protecting seal               | 6 Compact size                       |
| 7 Rust protection to all metal parts | 8 Coil with F class insulation       |

Because of all above excellent features, DC fail safe brake provide following advantage during its operation :

- Lower heating of the brake
- Very fast engagement of the brake
- The booster coil provides very fast release of the brake

### ► APPLICATION

- » Gearbox
- » Cranes
- » Textile machinery

## BRAKE - KIBOSH SERIES (CI)

### TOTALLY ENCLOSED FAN COOLED SQUIRREL CAGE DC BRAKE MOTORS

MOUNTING: FOOT  
 VOLTAGE: 415 VOLTS  $\pm$  10%  
 FREQUENCY: 50Hz  $\pm$  5%  
 COMBINED: 10% (ABSOLUTE SUM)  
 AMBIENT: 50°C

PROTECTION: IP55

EFFICIENCY: IE2

DUTY: S1 ( CONTINUOUS)

INSULATION: CLASS F, TEMP RISE-CLASS B

BRAKE TYPE: DC

| OUTPUT Rating |      | 4 Pole / 1500 RPM |            |            | 6 Pole / 1000 RPM |            |            |
|---------------|------|-------------------|------------|------------|-------------------|------------|------------|
| KW            | HP   | Frame             | Brake Size | List Price | Frame             | Brake Size | List Price |
| 0.37          | 0.50 | -                 | -          | -          | NG80              | 8          | 22920/-    |
| 0.55          | 0.75 | NG80              | 8          | 22390/-    | NG80              | 8          | 23180/-    |
| 0.75          | 1.0  | NG80              | 8          | 22460/-    | NG90S             | 10         | 29890/-    |
| 1.1           | 1.5  | NG90S             | 10         | 29200/-    | NG90L             | 10         | 31010/-    |
| 1.5           | 2.0  | NG90L             | 10         | 30170/-    | NG100L            | 12         | 36720/-    |
| 2.2           | 3.0  | NG100L            | 12         | 36220/-    | NG112M            | 14         | 40950/-    |
| 3.0           | 4.0  | NG100L            | 12         | 37020/-    | NG132S            | 16         | 57220/-    |
| 3.7           | 5.0  | NG112M            | 14         | 41710/-    | NG132S            | 16         | 58520/-    |
| 5.5           | 7.5  | NG132S            | 16         | 56670/-    | NG132M            | 16         | 61920/-    |
| 7.5           | 10.0 | NG132M            | 16         | 61240/-    | ND160M            | 18         | 99600/-    |
| 9.3           | 12.5 | NG132M            | 16         | 73360/-    | ND160L            | 20         | 123610/-   |
| 9.3           | 12.5 | ND160M            | 18         | 97660/-    | -                 | -          | -          |
| 11            | 15   | ND160M            | 20         | 98000/-    | ND160L            | 20         | 126930/-   |
| 15.0          | 20   | ND160L            | 20         | 124820/-   | ND180L            | 25         | 188920/-   |
| 18.5          | 25   | ND180M            | 25         | 184250/-   | ND200L            | 25         | 228660/-   |
| 22            | 30   | ND180L            | 25         | 194100/-   | ND200L            | 25         | 238630/-   |
| 30            | 40   | ND200L            | 25         | 241250/-   | ND225M            | 25         | on request |
| 37            | 50   | ND225S            | 25         | On Request | -                 | -          | -          |
| 45            | 60   | ND225M            | 25         | On Request | -                 | -          | -          |

ALP for Separate Brakes for Brake Motors - refer special feature

Standard Paint Shade : RAL7034 (Yellow Grey)



## BRAKE - KIBOSH SERIES (ALUMINUM SERIES)

Being Flameproof construction, flameproof enclosure to brake is also necessary. This needs special approval too. This FLP enclosure and approval makes the motors special . CG is having capability to supply these motors in wide range.

### TOTALLY ENCLOSED FAN COOLED SQUIRREL CAGE DC BRAKE MOTORS

AMBIENT: 50°C

MOUNTING: FOOT

VOLTAGE: 415 VOLTS  $\pm$  10%

FREQUENCY: 50Hz  $\pm$  5%

COMBINED: 10% (ABSOLUTE SUM)

APPLICABLE STANDARDS: IS/IEC 60034-30-1, IS 12615 : 2018; IS1231, IS2223

PROTECTION: IP55

EFFICIENCY: IE2

RATING: S1 (CONTINUOUS)

INSULATION: CLASS F, TEMP RISE-CLASS B

BRAKE TYPE: DC

| OUTPUT Rating |      | 4 Pole / 1500 RPM |            |            | 6 Pole / 1000 RPM |            |            |
|---------------|------|-------------------|------------|------------|-------------------|------------|------------|
| KW            | HP   | Frame             | Brake Size | List Price | Frame             | Brake Size | List Price |
| 0.37          | 0.50 | GD71              | 6          | 19500/-    | GD80              | 8          | 22180/-    |
| 0.55          | 0.75 | GD80              | 8          | 21665/-    | GD80              | 8          | 22430/-    |
| 0.75          | 1.0  | GD80              | 8          | 21735/-    | GD90S             | 10         | 28925/-    |
| 1.1           | 1.5  | GD90S             | 10         | 28255/-    | GD90L             | 10         | 30010/-    |
| 1.5           | 2.0  | GD90L             | 10         | 29195/-    | GD100L            | 12         | 35530/-    |
| 2.2           | 3.0  | GD100L            | 12         | 38940/-    | GD112M            | 14         | 39625/-    |
| 3.7           | 5.0  | GD112M            | 14         | 40360/-    | GD132S            | 16         | 56620/-    |
| 5.5           | 7.5  | GD132S            | 16         | 60925/-    | GD132M            | 16         | 66565/-    |
| 7.5           | 10.0 | GD132M            | 16         | 65835/-    | -                 | -          | -          |

ALP for Separate Brakes for Brake Motors - refer special feature

Standard Paint Shade : RAL7034 (Yellow Grey)





## Fire Fighting Series

### TOTALLY ENCLOSED FAN COOLED FIRE FIGHTING MOTORS

MOUNTING: FOOT

VOLTAGE: 415 VOLTS  $\pm$  10%

FREQUENCY: 50Hz  $\pm$  5%

COMBINED: 10% (ABSOLUTE SUM)

AMBIENT: 50°C

PROTECTION: IP55

RATING: S1

DUTY: Continuous

INSULATION: CLASS F, TEMP RISE-CLASS F

PAINT: RED

| Fire Fighting |         |          |
|---------------|---------|----------|
| FF Catref     | Frame   | ALP      |
| 5.50KNE2-FF   | ND112M  | 28825/-  |
| 9.30KNE2-FF   | ND132M  | 45625/-  |
| 11KNE2-FF     | ND132M  | 55700/-  |
| 15KE2-FF      | ND160M  | 66,500/- |
| 22KE2-FF      | ND160L  | 86400/-  |
| 30KE2-FF      | ND180L  | 126875/- |
| 45KE2-FF      | ND200L  | 198225/- |
| 55KE2-FF      | ND225M  | 266850/- |
| 60KE2-FF      | ND225M  | 292500/- |
| 75KE2-FF      | ND250MX | 333225/- |
| 90KE2-FF      | ND280M  | 384400/- |



Temp.Rise will be Limited to F class  
For Ratings apart from above kindly contact division



# Compressor Series



## ► FEATURES

- » IE2 / IE3 Efficiency Class available
- » Range :: 5.5KW to 300KW
- » Service Factor 1.2 Maximum
- » Class F to F temperature class at negative voltage and positive voltage.
- » Frame size 160 and above, flying leads and online greasing are standard features.
- » Frame size 225 and above, RTD and BTD can be provided on request.
- » B5 mounting motors single point support will be provided on request (160 frame and above).
- » Below 160 frame, B34 MOUNTING is standard mounting.
- » SPM arrangement will be provided on request for 200 frame and above.
- » 200 frame and above, C4 bearing and below 132 frame WT bearing (High Temperature Bearing ) will be provided on request.
- » RDSO approved range available. (Contact Division Marketing team for more details).

## COMPRESSOR SERIES

### TOTALLY ENCLOSED FAN COOLED MOTORS FOR COMPRESSOR APPLICATION

MOUNTING: FOOT

VOLTAGE: 415 VOLTS  $\pm$  10%

FREQUENCY: 50Hz  $\pm$  5%

COMBINED: 10% (ABSOLUTE SUM)

AMBIENT: 50°C

PROTECTION: IP55

RATING: S1

DUTY: Continuous

INSULATION: CLASS F, TEMP RISE-CLASS F

SERVICE FACTOR: 1.2

EFFICIENCY - IE2

| Compressor Series |      |         |            |
|-------------------|------|---------|------------|
| KW                | Pole | Frame   | List Price |
| 7.5               | 2    | NG132M  | 56810/-    |
| 11                | 2    | PC132M  | 68095/-    |
| 15                | 2    | ND160L  | 79370/-    |
| 22                | 2    | ND160L  | 101405/-   |
| 30                | 2    | ND200L  | 197850/-   |
| 37                | 2    | ND200L  | 208255/-   |
| 45                | 2    | ND200L  | 231570/-   |
| 55                | 2    | ND250MX | 332485/-   |
| 75                | 2    | ND250MX | 350120/-   |
| 150               | 2    | ND315LX | 866245/-   |
| 11                | 4    | ND160M  | 89305/-    |
| 15                | 4    | ND160L  | 98240/-    |
| 18.5              | 4    | ND180L  | 124200/-   |
| 22                | 4    | ND180L  | 151740/-   |
| 55                | 4    | ND250MX | 386450/-   |
| 75                | 4    | PC250M  | 433910/-   |
| 90                | 4    | ND280M  | 511285/-   |
| 132               | 4    | ND315LX | 840000/-   |
| 160               | 4    | ND315LX | 960000/-   |
| 200               | 4    | ND355LX | 1240000/-  |

Temp.Rise will be Limited to F class

For Ratings apart from above kindly contact division

# Smoke Extraction Motors



## ► FEATURES

- » Smoke extraction motors are provided with the state of the art insulation system which withstands the high temperature during accidental fire conditions
- » High temperature bearing along with high temp grease for increased reliability and suitability at elevated temperature
- » Special insulation and impregnation process adapted to the respective temperature/time classes
- » Dual function motors provide standard ventilation in normal working conditions and smoke extraction in emergencies
- » Special painting material protects motor during high temperature also from corrosion due to chemical contents of smoke
- » Motors with TEAO configuration as a standard and TEFC available on request
- » Specially design flying leads provide uninterrupted power supply even in accidental conditions also flexibility of connection as lead length is one meter

## ► APPLICATION

Our smoke extraction motor are specially engineered for following application :

- |                             |             |                                   |
|-----------------------------|-------------|-----------------------------------|
| » Tunnels                   | » Air ports | » Subways                         |
| » parking area              | » Factories | » Underground stations            |
| » Shopping malls *Warehouse | » Theater   | » Enclosed passages & stair cases |

## SMOKE EXTRACTION MOTORS

### TOTALLY ENCLOSED AIR OVER SMOKE EXTRACTION MOTORS

MOUNTING: FOOT

VOLTAGE: 415 VOLTS  $\pm$  10%

FREQUENCY: 50Hz  $\pm$  5%

Paint: RAL7032 (PEBBLE GREY)

CI B3 IE2 TEAO ND Series Motor. T.BOX at TOP and 1m Flying leads

PROTECTION: IP55

RATING: S1/S2

Temperature: 300°C – 2Hrs

Insulation: H Class

| OUTPUT |       | 2 POLE : 3000 RPM |                   |            |
|--------|-------|-------------------|-------------------|------------|
| KW     | HP    | Frame             | Catref            | List Price |
| 0.75   | 1.00  | ND80              | 0.75KNE2TOP_SM3TE | 11585/-    |
| 1.10   | 1.50  | ND80              | 1.1KNE2TOP_SM3TE  | 12610/-    |
| 1.5    | 2.00  | ND90S             | 1.5KNE2TOP_SM3TE  | 14490/-    |
| 2.2    | 3.00  | ND90L             | 2.2KNE2TOP_SM3TE  | 18580/-    |
| 3.7    | 5.00  | ND100L            | 3.7KNE2TOP_SM3TE  | 23070/-    |
| 5.5    | 7.50  | ND132S            | 5.5KNE2TOP_SM3TE  | 37620/-    |
| 7.5    | 10.00 | ND132S            | 7.5KNE2TOP_SM3TE  | 42705/-    |
| 18.5   | 25    | ND160L            | 18.5KE2TOP_SM3TE  | 104910/-   |
| 22     | 30    | ND180M            | 22KE2TOP_SM3TE    | 117880/-   |
| 30     | 40    | ND200L            | 30KE2TOP_SM3TE    | 173055/-   |
| 37     | 50    | ND200L            | 37KE2TOP_SM3TE    | 210115/-   |

| OUTPUT |       | 6 POLE : 1000 RPM |                   |            |
|--------|-------|-------------------|-------------------|------------|
| KW     | HP    | Frame             | Catref            | List Price |
| 0.75   | 1.00  | ND90S             | 0.75KNE6TOP_SM3TE | 14555/-    |
| 1.10   | 1.50  | ND90L             | 1.1KNE6TOP_SM3TE  | 15975/-    |
| 1.50   | 2.00  | ND100L            | 1.5KNE6TOP_SM3TE  | 23005/-    |
| 2.20   | 3.00  | ND112M            | 2.2KNE6TOP_SM3TE  | 24520/-    |
| 3.70   | 5.00  | ND132S            | 3.7KNE6TOP_SM3TE  | 38185/-    |
| 5.50   | 7.50  | ND132M            | 5.5KNE6TOP_SM3TE  | 46960/-    |
| 7.50   | 10.00 | ND160M            | 7.5KE6TOP_SM3TE   | 71680/-    |
| 11     | 15    | ND160L            | 11KE6TOP_SM3TE    | 88210/-    |
| 15     | 20    | ND180L            | 15KE6TOP_SM3TE    | 115240/-   |
| 18.5   | 25    | ND200L            | 18.5KE6TOP_SM3TE  | 164540/-   |
| 22     | 30    | ND200L            | 22KE6TOP_SM3TE    | 177180/-   |

| OUTPUT |       | 2 POLE : 3000 RPM |                   |            |
|--------|-------|-------------------|-------------------|------------|
| KW     | HP    | Frame             | Catref            | List Price |
| 0.55   | 0.75  | ND80              | 0.55KNE4TOP_SM3TE | 11880/-    |
| 0.75   | 1.00  | ND80              | 0.75KNE4TOP_SM3TE | 12045/-    |
| 1.10   | 1.50  | ND90S             | 1.10KNE4TOP_SM3TE | 14885/-    |
| 1.50   | 2.00  | ND90L             | 1.50KNE4TOP_SM3TE | 18055/-    |
| 2.20   | 3.00  | ND100L            | 2.20KNE4TOP_SM3TE | 21520/-    |
| 3.70   | 5.00  | ND112M            | 3.70KNE4TOP_SM3TE | 27260/-    |
| 5.50   | 7.50  | ND132S            | 5.50KNE4TOP_SM3TE | 37885/-    |
| 7.50   | 10.00 | ND132M            | 7.50KNE4TOP_SM3TE | 44785/-    |
| 11     | 15    | ND160M            | 11KE4TOP_SM3TE    | 73030/-    |
| 15     | 20    | ND160L            | 15KE4TOP_SM3TE    | 90160/-    |
| 18.5   | 25    | ND180M            | 18.5KE4TOP_SM3TE  | 115370/-   |
| 22     | 30    | ND180L            | 22KE4TOP_SM3TE    | 126360/-   |
| 30     | 40    | ND200L            | 30KE4TOP_SM3TE    | 174340/-   |



Temp.Rise will be Limited to F class

For Ratings apart from above kindly contact division



# Presenting Electric Vehicle Motor

EV Motor converts your vehicle into an electric vehicle resulting into high efficiency at optimal usage of resource. By switching to an electric motor, you will not only save on the growing cost of fuel, but your electric vehicle will be powered by a 'clean energy source' meaning your vehicle will not be producing harmful emissions. EV Motor provides an excellent low maintenance, zero emissions and reduces noise pollution solution to your vehicle.



# Alternators



## Power when Required

### ► FEATURES

- » Ease of maintenance with integrated components and outboard
- » Exciter/Rotating Rectifier
- » A reliable long life with superior class 'H' insulation
- » Compact, light and sturdy die cast aluminum stator for frames Upto 250, offer superior finish

### ► APPLICATION

- » Defense
- » Agriculture
- » Marine
- » Trailer mounted mobile sets for Air Force
- » Railways

## ALTERNATORS

### CG Alternator -Brushless Type--1500 RPM

Screen Protected Drip Proof with enclosure conforming to protection IP 23 , Horizontal Foot Mounted (B3) , 1500 RPM , 4P , 0.8 PF(lag) , Voltage Regulation +/-1% , Single Bearing suitable for operations upto 40 Deg C Amb Temp & 1000 mtr altitude

| 3 Phase, 415 V |           |            |
|----------------|-----------|------------|
| KVA            | FRAME     | List Price |
| 5.0            | G1R132MR  | 53600/-    |
| 7.5            | G1R160C1F | 55653/-    |
| 10.0           | G1R160C1E | 59700/-    |
| 12.5           | G1R160C2A | 63660/-    |
| 15.0           | G1R160C2B | 69120/-    |
| 20.0           | G1R160C3B | 80900/-    |
| 25.0           | G1R160C4C | 92150/-    |
| 30.0           | G1R160C5A | 104680/-   |
| 35.0           | G1R200SE  | 113180/-   |
| 40.0           | G1R200SE  | 122520/-   |
| 45             | G1R200SA  | 133900/-   |
| 50             | G1R200SB  | 138990/-   |
| 62.5           | G1R200SC  | 163470/-   |
| 63             | G1R200SC  | 163470/-   |
| 75             | G1R200MB  | 179560/-   |
| 82.5           | G1R200MD  | 183340/-   |
| 90             | G1R200MDX | 216240/-   |
| 100            | G1R250SB  | 216980/-   |
| 110            | G1R250SD  | 229260/-   |
| 125            | G1R250SD  | 239240/-   |
| 140            | G1R250MA  | 262840/-   |
| 160            | G1R250MB  | 285630/-   |
| 180            | G1R250LB  | 300450/-   |
| 200            | G1R250LD  | 320080/-   |
| 225            | G1R315SE  | 358220/-   |
| 250            | G1R315SE  | 385750/-   |
| 275            | G1R315SA  | 411050/-   |
| 300            | G1R315SB  | 439620/-   |
| 320            | G1R315SB  | 463560/-   |
| 380            | G1R315MB  | 532810/-   |
| 400            | G1R355SB  | 579680/-   |
| 415            | G1R355SB  | 581090/-   |
| 437.5          | G1R355SE  | 585980/-   |

| 3 Phase, 415 V |          |            |
|----------------|----------|------------|
| KVA            | FRAME    | List Price |
| 450            | G1R355SE | 616680/-   |
| 500            | G1R355SE | 671990/-   |
| 550            | G1R355ME | 716100/-   |
| 600            | G1R355MA | 778320/-   |
| 625            | G1R355MA | 790470/-   |
| 650            | G1R355MB | 882640/-   |
| 680            | G1R400SB | 1169750/-  |
| 750            | G1R400SC | 1184980/-  |
| 1010           | G1R400MA | 1413840/-  |
| 1250           | G1R400MB | 1641150/-  |
| 1400           | G1R450SB | 2080720/-  |
| 1500           | G1R450SC | 2103960/-  |
| 1750           | G1R450MA | 2741250/-  |
| 1900           | G1R450MB | 2784730/-  |
| 2000           | G1R450LA | 2848640/-  |
| 2250           | G1R450LB | 3057350/-  |

| 1 Phase, 240 V |           |            |
|----------------|-----------|------------|
| KVA            | Frame     | List Price |
| 5              | G1R160C1F | 54370/-    |
| 7.5            | G1R160C1E | 62380/-    |
| 10             | G1R160C2A | 69690/-    |
| 12.5           | G1R160C3B | 81270/-    |
| 15             | G1R160C4C | 92000/-    |
| 17.5           | G1R160C5C | 100000/-   |
| 20             | G1R160C5A | 105180/-   |
| 25             | G1R200SF  | 124080/-   |
| 30             | G1R200SA  | 136550/-   |
| 35             | G1R200SC  | 154950/-   |
| 40             | G1R200SD  | 168580/-   |
| 45             | G1R200MB  | 191370/-   |
| 50             | G1R200MD  | 214170/-   |
| 63             | G1R250SD  | 258380/-   |
| 82.5           | G1R250LB  | 312340/-   |

## ALTERNATORS

### CG Alternator -Brushless Type--3000 RPM

Screen Protected Drip Proof with enclosure conforming to protection IP 23, Horizontal Foot Mounted (B3), 3000 RPM, 2 Pole, 0.8 PF (lag), Voltage Regulation +/-1%, Single Bearing suitable for operations upto 40 Deg C Ambient Temperature & 1000 mtr altitude. Temp rise limited to class 'H' limits

| 3 Phase, 415 V |             |            |
|----------------|-------------|------------|
| KVA            | Frame       | List Price |
| 5              | G1R132MR/2  | 54860/-    |
| 7.5            | G1R132MA/2  | 55650/-    |
| 10             | G1R132MC/2  | 58340/-    |
| 12.5           | G1R160S1A/2 | 62210/-    |
| 15             | G1R160S1A/2 | 69120/-    |
| 20             | G1R160SB/2  | 80890/-    |
| 25             | G1R160SC/2  | 92150/-    |
| 30             | G1R160MA/2  | 104680/-   |

| 1 Phase, 240 V |             |            |
|----------------|-------------|------------|
| KVA            | Frame       | List Price |
| 5              | G1R132MR/2  | 54330/-    |
| 6              | G1R132MA/2  | 57750/-    |
| 7.5            | G1R132MC/2  | 62380/-    |
| 10             | G1R160S1A/2 | 69040/-    |
| 12.5           | G1R160SB/2  | 81280/-    |
| 15             | G1R160SC/2  | 92000/-    |

**CG Dual Regulation Alternators - Brushless Type ---1500 RPM - D - Series Alternators** for Mini hydro & emergency application. Screen Protected Drip Proof with enclosure conforming to protection IP 23, Horizontal Foot Mounted (B3), 1500 RPM, 4 Pole, 0.8 PF (lag), Dual Voltage Regulation +/-2.5%, Double Bearing suitable for operations upto 40 Deg C Ambient Temperature & 1000 mtr altitude, with H class insulation & class F temp rise

| 3 Phase, 415 V |           |            |
|----------------|-----------|------------|
| KVA            | Frame     | List Price |
| 12.5           | G2R160SB  | 81160/-    |
| 15.0           | G2R160SB  | 89550/-    |
| 20             | G2R160MC  | 145550/-   |
| 25.0           | G2R160M2A | 162320/-   |
| 30             | G2R200SE  | 179100/-   |
| 35             | G2R200SE  | 186120/-   |
| 40             | G2R200SB  | 193130/-   |
| 50             | G2R200SC  | 207170/-   |
| 63             | G2R200MB  | 208290/-   |
| 75             | G2R250SB  | 246300/-   |
| 100            | G2R250SD  | 284330/-   |
| 110            | G2R250MA  | 299020/-   |
| 125            | G2R250MB  | 316780/-   |
| 145            | G2R250LB  | 343940/-   |
| 160            | G2R250LD  | 371080/-   |
| 180            | G2R315SE  | 407110/-   |
| 200            | G2R315SE  | 443140/-   |





## ALTERNATORS

### CG Alternators - Slip Ring Type USTAD Series ---1500 RPM

Screen Protected Drip Proof with enclosure conforming to protection IP 23, Horizontal Foot Mounted (B3), 1500 RPM, 4 Pole, 0.8 PF (lag), Voltage Regulation +/-5%, Double Bearing suitable for operations upto 40 Deg C Ambient Temperature & 1000 mtr altitude

| 3 Phase, 415 V |           |            |
|----------------|-----------|------------|
| KVA            | Frame     | List Price |
| 5              | G2S132MR  | 34650/-    |
| 6.5            | G2S132MR  | 34910/-    |
| 7.5            | G2S132MA  | 44190/-    |
| 10             | G2S132MC  | 49400/-    |
| 12.5           | G2S132MD  | 54450/-    |
| 15             | G2S160S1B | 58470/-    |
| 20             | G2S160SC  | 79470/-    |
| 25             | G2S160MC  | 86870/-    |
| 30             | G2S160M2R | 97580/-    |
| 32.5           | G2S160M2R | 100130/-   |
| 35             | G2S200SE  | 105750/-   |
| 40             | G2S200SE  | 112760/-   |
| 45             | G2S200SB  | 125560/-   |
| 50             | G2S200SB  | 129230/-   |
| 63             | G2S200SD  | 152740/-   |
| 75             | G2S200MD  | 170660/-   |
| 82.5           | G2S200MD  | 176950/-   |

| 1 Phase, 240 V |           |            |
|----------------|-----------|------------|
| KVA            | Frame     | List Price |
| 5              | G2S132MA  | 39890/-    |
| 6              | G2S132MC  | 45450/-    |
| 7.5            | G2S160S1E | 49450/-    |
| 10             | G2S160S1B | 56250/-    |
| 12.5           | G2S160SC  | 68840/-    |
| 15             | G2S160MC  | 81180/-    |
| 20             | G2S200SE  | 110090/-   |

| UPF ALTERNATORS - 1 Phase, 240V |           |            |
|---------------------------------|-----------|------------|
| KVA                             | Frame     | List Price |
| 5                               | G2S132MA  | 41500/-    |
| 6                               | G2S132MC  | 46400/-    |
| 7.5                             | G2S132MD  | 49450/-    |
| 10                              | G2S160S1E | 56250/-    |
| 15.0                            | G2S160S1B | 77500/-    |



## CASH EXTRA FOR SPECIAL FEATURES : ALTERNATORS

| CASH EXTRA FOR SPECIAL FEATURES : ALTERNATORS |             |           |         |         |          |           |         |           |     |
|-----------------------------------------------|-------------|-----------|---------|---------|----------|-----------|---------|-----------|-----|
| 1 ) Additional prices for accessories         |             |           |         |         |          |           |         |           |     |
| Frame                                         | 132         | 160       | 200     | 250     | 315      | 355       | 400SC   | 400MA/E/B | 450 |
| SCM Aux Winding                               | Not Offered | 2400/-    | 6000/-  | STD     | STD      | STD       | STD     | STD       | STD |
| Spaceheater                                   | Not Offered | 3000/-    | 4000/-  |         | 6000/-   | 7200/-    |         | STD       | STD |
| RTD ( 2 per phase)                            | Not Offered |           |         | 10000/- | 20000/-  |           |         | STD       | STD |
| Thermister                                    | Not Offered |           | 13500/- |         |          | 16500/-   |         |           |     |
| BTD Rs. Each                                  | Not Offered |           |         |         | 10000/-  |           |         | STD       | STD |
| Digital AVR                                   | Not Offered |           |         |         | 190000/- |           |         |           |     |
| Digital AVR + 1 Auto on plate                 | Not Offered |           |         |         | 290000/- |           |         |           |     |
| External PMG                                  | Not Offered |           |         |         | 40000/-  |           |         |           |     |
| Supply side CT's                              | Not Offered |           | 5000/-  |         | 10000/-  |           | 20000/- |           |     |
| No Of leads : 12                              | Not Offered | 5% on Net |         |         |          |           |         |           |     |
| Special Voltage                               | Not Offered | 5% on Net |         |         |          |           |         |           |     |
| Marine treatment                              | 2% on Net   |           |         |         |          | 5% on Net |         |           |     |
| Epoxy Paint                                   | 5000/-      |           | 6000/-  |         | STD      | STD       | STD     | STD       | STD |
| RFI Kit                                       | 4400/-      |           |         |         |          |           |         |           |     |
| AVR filter                                    | 5000/-      |           |         |         |          |           |         |           |     |
| AVR droop CT                                  | Not Offered | 3500/-    |         |         |          | STD       | STD     | STD       | STD |
| AVR with Analogue input                       | Not Offered |           | 4000/-  | STD     | STD      | STD       | STD     | STD       | STD |

Note:

RTD , BTD, Space Heaters are without controls.

DC Injection Parallel operation Facility standard from 100 kVA And Above

Droop CT facility 100 kVA to 380 kVA and 400 kVA to 2250 kVA Factory fitted CT

For supply side CT's customer needs to give rating of the CT's

Upto 250 Frame alternators are with AL shell construction

## 2) Inspection Charges

|              |        |        |         |         |         |
|--------------|--------|--------|---------|---------|---------|
| Type Test    | 6000/- | 9600/- | 12000/- | 15000/- | 20000/- |
| Routine Test | 2400/- | 4800/- | 6000/-  | 8000/-  |         |

\* Type Test : Upto 355 Frame direct loading method and 400/450 Frame indirect loading method. Before Offering Get the QAP for Type test and routine test . Indirect loading method testing without regulation and dip and rise test.

Notes:

- 1) For Prices of other accessories and spares we have separate Price List.
- 2) All prices are valid delivery ex-our godown.
- 3) All Alternators comply with IS 13364, IS 4722:1992 for specifications of rotating electric machines .
- 4) GST extra at actual.
- 5) Inspection charges are for standard Alternators .
- 6) Upto 200kVA Alternators are in Aluminium Stator frames.
- 7) For non-standard, marine duty Alternators , please contact our nearest Branch Office.
- 8) For 2P Alternators - contact division before taking the order .
- 9) The list prices are maximum recommended prices. However, prices lower than this can be charged.
- 10) The list prices are subject to change without prior notice.

# DC Motors



## Wide Range

### ► FEATURES

DC Motors can also be offered Laminated Yoke Motors, Solid Yoke Motors, Mill Duty Motors with totally enclosed protection with appropriate cooling arrangement like surface cooled, heat exchangers etc. to enhance motor performance in duty environment, with an expertise in design we manufacture custom built motors matching specification, dimensions and applications specific requirement. Motors confirms to IEC: 60034-, BS5000 part99 & IS4722.

- » Excellent control behaviour
- » Full torque from zero torque
- » Wide field weakening field

### ► APPLICATION

- » Printing machines
- » Pulp & Paper industries
- » Shear drives
- » Plastic exchangers
- » Sugar centrifuges
- » Steel industries
- » Rubber industries

## DC MOTOR

**Laminated Yoke DC Motors :** Screen protected Drp Proof with enclosure confirming to protection IP 23, Horizontal foot mounted (B3), base speed 1500 RPM, Blower cooled (IC06) suitable for operations upto 40 Degree C Ambient Temperature & 1000 mtr altitude, Insulation class F with temperature rise limited to class 'F' limits for Frame 100S to 132L, Insulation class H with temperature rise limited to class 'H' for Frame 160A to 280M, Armature voltage 440V & Field voltage 220V for frame 100S to 280M

| Laminated Yoke DC motors |            |            |
|--------------------------|------------|------------|
| KW                       | ASBG Frame | List Price |
| 2.2                      | 100S       | 42710/-    |
| 3.7                      | 100M       | 45130/-    |
| 5.5                      | 100L       | 51840/-    |
| On enquiry               | 112S       | 67730/-    |
| 7.5                      | 112M       | 70020/-    |
| On enquiry               | 112L       | 77500/-    |
| 11.0                     | 132S       | 78900/-    |
| 15.0                     | 132M       | 93160/-    |
| 22.5                     | 132L       | 102700/-   |
| 30.0                     | 160A       | 161650/-   |
| 40.0                     | 160S       | 179260/-   |
| 50.0                     | 160M       | 202670/-   |
| 56.0                     | 160M       | 213110/-   |
| 60.0                     | 160L       | 232440/-   |
| On enquiry               | 180A       | 242606/-   |
| 75.0                     | 180S       | 280360/-   |
| 100.0                    | 180M       | 297300/-   |
| On enquiry               | 200A       | 321480/-   |
| 115.0                    | 200S       | 351900/-   |
| On enquiry               | 200SX      | 403720/-   |
| 150.0                    | 200M       | 440370/-   |
| On enquiry               | 225A       | 466070/-   |
| 180.0                    | 225S       | 521750/-   |
| On enquiry               | 225SX      | 576580/-   |
| 225.0                    | 225M       | 596900/-   |
| On enquiry               | 250A       | 674000/-   |
| 295.0                    | 250S       | 737200/-   |
| On enquiry               | 250SX      | 758250/-   |
| 325.0                    | 250M       | 776710/-   |
| On enquiry               | 250MX      | 780780/-   |
| On enquiry               | 250L       | 802410/-   |
| 400.0                    | 280S       | On Request |
| 450.0                    | 280M       | On Request |
| On enquiry               | 280MX      | 986030/-   |
| On enquiry               | 280L       | 1032620/-  |
| On enquiry               | 280LX      | 1075590/-  |

| Laminated Yoke DC motors |            |            |
|--------------------------|------------|------------|
| KW                       | ASBG Frame | List Price |
| On enquiry               | 280LY      | 1129700/-  |
| On enquiry               | 315S       | 1151500/-  |
| On enquiry               | 315M       | 1179520/-  |
| On enquiry               | 315L       | 1298240/-  |
| On enquiry               | 315LX      | 1388840/-  |
| On enquiry               | 315LL      | 1505000/-  |
| On enquiry               | 355S       | 1650550/-  |
| On enquiry               | 355M       | 1672660/-  |
| On enquiry               | 355L       | 1762640/-  |
| On enquiry               | 355LX      | 1859220/-  |
| On enquiry               | 400S       | 1909050/-  |
| On enquiry               | 400M       | 1952940/-  |
| On enquiry               | 400L       | 2121460/-  |

| Solid Yoke DC Motors |            |
|----------------------|------------|
| Frame Size           | List Price |
| AES160U              | 153240/-   |
| AES160A              | 165940/-   |
| AES160S              | 198820/-   |
| AES160M              | 240630/-   |
| AFS180U              | 177320/-   |
| AFS180A              | 196300/-   |
| AFS180S              | 227960/-   |
| AFS180M              | 269740/-   |
| AFS180SPL-S          | 273010/-   |
| AFS180SPL-M          | 292530/-   |
| AFS180SPL-L          | 299500/-   |
| AFS180SPL-X          | 338000/-   |
| AFS225S              | 363450/-   |
| AFS225M              | 443250/-   |
| AFS225L              | 487550/-   |
| AFS225LX             | 563940/-   |
| AFS225X              | 559750/-   |
| AFS250S              | 619680/-   |
| AFS250M              | 653920/-   |
| AFS250L              | 661500/-   |



## DC MOTOR

| Solid Yoke DC Motors |            |
|----------------------|------------|
| Frame Size           | List Price |
| AFS280A              | 683870/-   |
| AFS280S              | 719320/-   |
| AFS280M              | 825680/-   |
| AFS315SX             | 1048450/-  |

| Solid Yoke DC Motors |            |
|----------------------|------------|
| Frame Size           | List Price |
| AFS315S              | 1131350/-  |
| AFS315M              | 1188480/-  |
| AFS315L              | 1252970/-  |

## MILL DUTY DC MOTORS ( NON SPLIT TYPE )

| Mill Duty DC Motors ( Non Split Type ) |            |                    |
|----------------------------------------|------------|--------------------|
| Frame Size                             | List Price | LP (Forced Cooled) |
| ABS802                                 | 324750/-   | 381880/-           |
| ABS803                                 | 402650/-   | 463700/-           |
| ABS804                                 | 506560/-   | 586450/-           |
| ABS806                                 | 740360/-   | 818270/-           |
| ABS808                                 | 870210/-   | 981930/-           |
| ABS810                                 | 1000120/-  | 1118310/-          |
| ABS812                                 | 1683280/-  | 1854720/-          |
| ABS814                                 | 1995000/-  | 2195690/-          |
| ABS816                                 | 2317100/-  | 2523000/-          |



| CASH EXTRAS FOR SPECIAL FEATURES       |                    |            |            |                  |            |           |     |     |             |     |
|----------------------------------------|--------------------|------------|------------|------------------|------------|-----------|-----|-----|-------------|-----|
| 1 . Additional Prices for Accessories: |                    |            |            |                  |            |           |     |     |             |     |
| Frame                                  | 100-132            | 160        | 180        | 200              | 225        | 250       | 280 | 315 | 355         | 400 |
| Shaft Extn                             | 5% of List Price   |            |            |                  |            |           |     |     |             |     |
| DE Flange                              | 7.5% of List Price |            |            | 5% of List Price |            |           |     |     | Not Offered |     |
| RTD                                    | Rs.7000/-          |            |            | Rs 10000/-       |            |           |     |     | Rs 12000/-  |     |
| BTD                                    | Not offered        |            | Rs 12000/- |                  |            |           |     |     |             |     |
| Thermisters                            | RS.2100/-          | Rs. 4200/- |            |                  |            |           |     |     |             |     |
| Space Heater                           | Rs.2000/-          | Rs.4000/-  |            |                  |            |           |     |     |             |     |
| Blower Filter                          | Rs. 6000/-         |            | Rs.10000/- |                  | Rs.14000/- |           |     |     |             |     |
| Non Std Paint                          | Rs.5000/-          | Rs.6000/-  |            |                  |            |           |     |     | Rs.13500/-  |     |
| Cab Glands/Run                         | Rs.1500/-          |            | Rs.2500/-  |                  |            | Rs.3200/- |     |     |             |     |

### 2) Inspection Charges

|              |            |             |
|--------------|------------|-------------|
| Frame        | 220        | 250 & above |
| Routine Test | Rs. 4000/- | Rs.8000/-   |
| Type Test    | Rs.8000/-  | Rs.16000/-  |

RTD , BTD , Space Heaters and Thermisters are without controls .

Notes:

- 1) List prices are valid for delivery for delivery ex-godown.
- 2) GST extra as applicable.
- 3) Prices are subject to change without prior notice.
- 4) The list prices are maximum recommended prices, However, prices lower than this can be charged.
- 5) Condition for sales : The price list is subjected to our standard ' General terms and conditions of Tender & Sale ' .
- 6) For more details contact our nearest office.

## TERMS & CONDITIONS

### TERMS OF SALE

- 1) This price list supersedes all our Pricelist issued before.
- 2) For any extra feature not approved please contact nearest CG sales office and refer spare price list for other accessories and spares.
- 3) Delivery : List Prices are ex-works/ex-godown and excluding GST which will be charged extra at actuals.
- 4) Conditions for Sales : The Price List is subjected to our standard "General Terms and Conditions of Tender and Sale" and prices are subject to revision without prior notice.
- 5) Prices are in INR ( )
- 6) **General:**
  - a) Due to improvement being made from time, frame sizes indicated above are provisional and subject to change without prior notice.
  - b) The list prices are maximum recommended prices. However prices lower then this can be charged.
  - c) The list prices are subjected to change without prior notice.
  - d) Motor outputs are given in kW & HP. However KW is binding & HP is approximate
  - e) For more details please contact us CG sales office.

## SERVICE PLUS PERFORMANCE

### Customer Service A Responsiveness

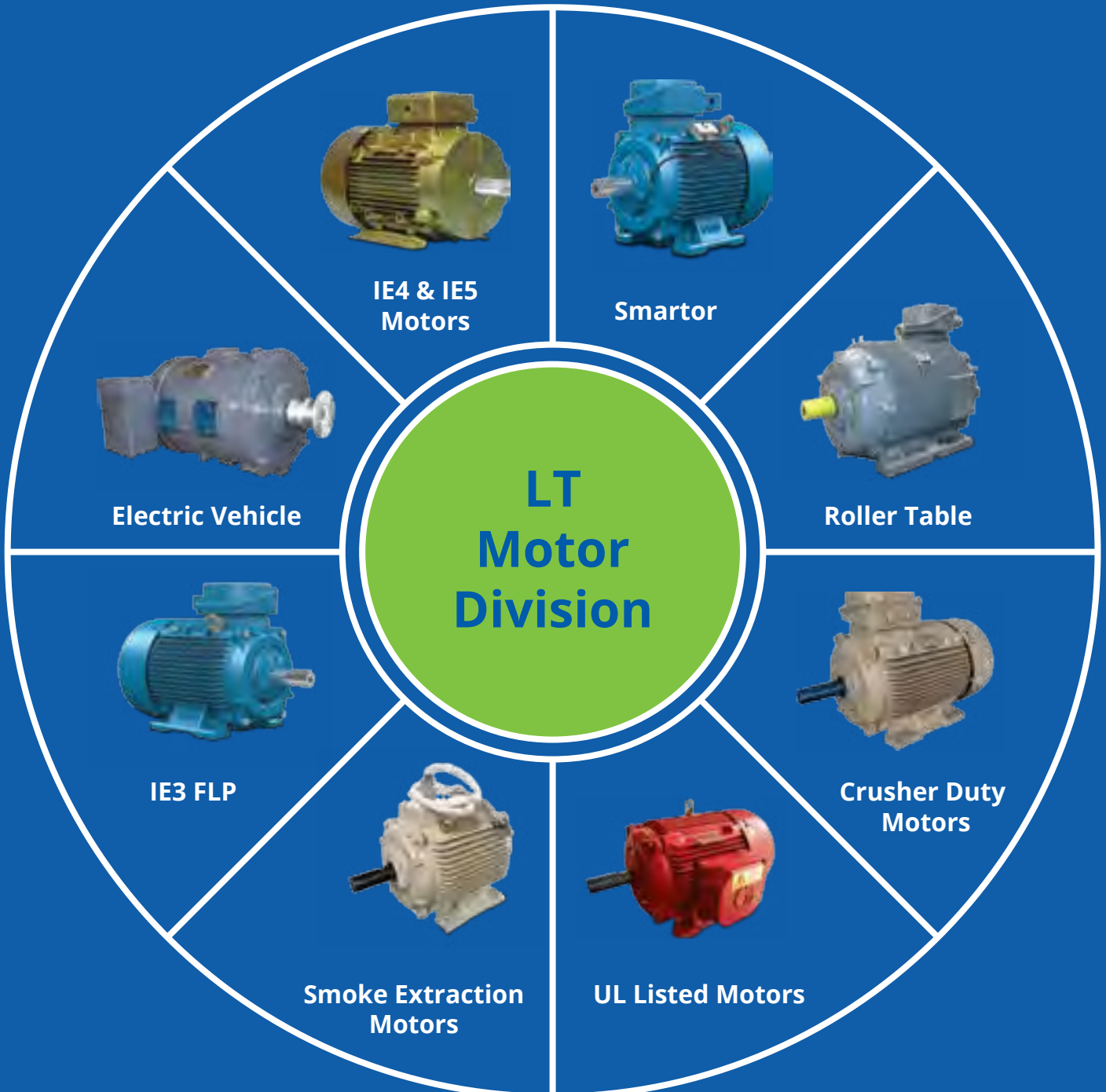


### Leveraging After Sales Service

- Repair & Refurbishment
- Spares Supply / Management
- Diagnostic Services & Conditional Monitoring
- Annual Maintenance Contract (AMC)
- Training
- Response is 24 hours - service backed by wide trained more than 250 authorised service contractors and 18 service stations
- Availability of CG genuine spares at service dealers outlets
- Service facility at Europe, Africa, Middle East, South East Asia Regions



Smart solutions.  
Strong relationships



# SALES AND SERVICE INDIA REGION

## NORTHERN REGION SALES OFFICE

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4<sup>th</sup> Floor, Discovery Tower, Plot No.17, Block A, Institutional Area, Sector 62, Noida, Uttar Pradesh 201 309.  
Phone: (120) 6861900

### Jalandhar:

SC0 No. 18, 3<sup>rd</sup> Floor, Ladowali Road, Puda Complex, Near Danik Bhaskar, Jalandhar 144001. Phone: (0181) 5044606

### Lucknow:

Saran Chambers II, 3<sup>rd</sup> floor  
5 Park Road, Lucknow 226 001, Uttar Pradesh. Phone: (0522) 3321564

### Jaipur:

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Phone: (0141) 3018801

## WESTERN REGION SALES OFFICE

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909-916, Sakar-II, Near Ellis Bridge police Station  
Ahmedabad 380 006, Gujarat.  
Phone: (079) 26587481

### Pune:

Argade Heights, 2<sup>nd</sup> Floor, CTS No. 1303,  
Above Fab-India Showroom, J M Road,  
Shivajinagar, Pune 411 005, Maharashtra.

### Indore:

108-110, Apollo Trade centre Geeta Bhawan  
Square, A. B. Road Indore 452 010.  
T: +91 731 2496204  
Mail Id: wrind.mktg@cgglobal.com

### Nagpur:

Global Trade, 2nd Floor, plot no-31A, Ramkrishna  
Nagar, Khamla Road, Nagpur 440 015.  
T: +91 712 6662902  
Mail Id: wrrpr.mktg@cgglobal.com

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## EASTERN REGION SALES OFFICE

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Bhubaneshwar 751 009, Orissa.  
Phones: 9776009188

### Jamshedpur:

2<sup>nd</sup> Floor, Part A, Amber Tower, Bistupur 831 001,  
Jamshedpur, Jharkhand.  
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## SOUTHERN REGION SALES OFFICE

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### Bangalore:

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5th Main, Chamarajapet, Bangalore 560 018.  
Phones: (080) 46642828

### Secunderabad:

4<sup>th</sup> floor Minerva Complex, 94, Sarojini Devi Rd,  
Secunderabad - 500 003.  
Phones: (040) 40002306

### Cochin:

1<sup>st</sup> Floor, Door No. 46/3386, Cochin House, Arakakadavu Rd,  
Vennala, Cochin 682 028.  
Phones: (484) 2807240  
Phones: (0771) 4019201

### Export

A 6/2, MIDC, Ahmednagar 414 111  
Maharashtra, India.  
Phone: (0241) 6626211  
Email: ltm.marketing@cgglobal.com

### NOTE:

Due to continuous improvement in the products, the specifications | dimensions given in this catalogue are subject to change without any prior notice. Users are requested to obtain specific confirmation from CG for the products they intend to use.