

LT MOTOR DATA SHEET

| S. NO.    | LT MOTORS                                                                             | Elevator Motor |
|-----------|---------------------------------------------------------------------------------------|----------------|
| <b>A.</b> | <b>GENERAL</b>                                                                        |                |
| 1.        | Quantity                                                                              |                |
| 2.        | Motor Manufacturer & Country of origin.                                               |                |
| 3.        | Motor type                                                                            |                |
| <b>B.</b> | <b>DESIGN AND PERFORMANCE DATA</b>                                                    |                |
| 1.        | Frame size                                                                            |                |
| 2.        | Type of duty                                                                          |                |
| 3.        | Type of enclosure / Method of cooling/ Degree of protection                           |                |
| 4.        | Applicable standard to which motor generally conforms                                 |                |
| 5.        | Efficiency IE3 of IS 12615 or above (vendor to fill up efficiency here)               |                |
| 6.a       | Whether motor is flame proof                                                          |                |
| 6.b       | If yes, the gas group to which it conforms as per IS:2148                             |                |
| 7         | Type of mounting                                                                      |                |
| 8         | Direction of rotation as viewed from DE END                                           |                |
| 9         | Standard continuous rating at 40 deg.C. Ambient temp. as per Indian Standard (KW)     |                |
| 10        | Derated rating for specified normal condition i.e. 50 deg. C ambient temperature (KW) |                |
| 11        | Maximum continuous load demand of driven equipment in KW                              |                |

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|      |                                                       |  |
|------|-------------------------------------------------------|--|
| 12   | Rated Voltage (volts)                                 |  |
| 13   | Permissible variation of :                            |  |
| 13.a | Voltage (Volts)                                       |  |
| 13.b | Frequency (Hz) (+3% to -5%)- vendor to specify        |  |
| 13.c | Combined voltage and frequency 10% -vendor to specify |  |
| 14   | Rated speed in RPM (at rated voltage and frequency)   |  |
| 15   | At rated Voltage and frequency:                       |  |
| 15.a | Full load current                                     |  |
| 15.b | No load current                                       |  |
| 16   | Power Factor at                                       |  |
| 16.a | 100%/75%/50% load                                     |  |
| 16.b | NO load                                               |  |
| 16.c | Starting.                                             |  |
| 17   | Efficiency at rated voltage and frequency,            |  |
| 17.a | 100% load                                             |  |
| 17.b | 75% load                                              |  |
| 17.c | 50% load                                              |  |
| 18   | Starting current (amps) at                            |  |
| 18.a | 100 % voltage                                         |  |
| 18.b | 85% voltage                                           |  |
| 18.c | 80% voltage                                           |  |

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|      |                                                                                                               |  |
|------|---------------------------------------------------------------------------------------------------------------|--|
| 19   | Minimum permissible starting Voltage (Volts) 85% of rated voltage upto 110KW , 80% above 110kw                |  |
| 20   | Starting time with minimum permissible voltage/80%/ 100%/ 110%                                                |  |
| 20.a | Without driven equipment coupled                                                                              |  |
| 20.b | With driven equipment coupled                                                                                 |  |
| 21   | Safe stall time with 100% ,110% & 80% of rated voltage                                                        |  |
| 21.a | From hot condition                                                                                            |  |
| 21.b | From cold condition                                                                                           |  |
| 22   | Torques :                                                                                                     |  |
| 22.a | Starting torque at min. permissible voltage(kg-mtr.)/ rated voltage                                           |  |
| 22.b | Pull up torque at rated voltage                                                                               |  |
| 22.c | Pull out torque                                                                                               |  |
| 22.d | Min accelerating torque (kg.m) available at lowest permissible starting voltage should be 10% of rated torque |  |
| 22.e | Rated torque (kg.m)                                                                                           |  |
| 23   | Stator winding resistance per phase (ohms at 20 Deg.C.)                                                       |  |
| 24   | GD2 value of motors                                                                                           |  |
| 25   | No of permissible successive starts when motor is in hot condition                                            |  |
| 26   | Locked Rotor KVA Input                                                                                        |  |
| 27   | Locked Rotor KVA/KW                                                                                           |  |
| 28   | Vibration limit :Velocity (mm/s)                                                                              |  |

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|           |                                                                                                            |               |
|-----------|------------------------------------------------------------------------------------------------------------|---------------|
| 29        | Noise level limit (dBA)                                                                                    |               |
| <b>C.</b> | <b>CONSTRUCTIONAL FEATURES</b>                                                                             |               |
| <b>1.</b> | <b>Stator winding insulation</b>                                                                           |               |
| 1.a       | Class & Type (minimum 155 F )                                                                              |               |
| 1.b       | Winding Insulation Process                                                                                 |               |
| 1.c       | Tropicalised (Yes/No)                                                                                      |               |
| 1.d       | Temperature rise over specified maximum ambient temperature of 50 deg C                                    |               |
| 1.e       | Method of temperature measurement                                                                          |               |
| 1.f       | Stator winding connection                                                                                  |               |
| <b>2</b>  | <b>Main Terminal Box</b>                                                                                   |               |
| 2.a       | Type                                                                                                       |               |
| 2.b       | Location (viewed from NDE side)                                                                            |               |
| 2.c       | Entry of cables (bottom/side)                                                                              |               |
| 2.d       | Recommended cable size (To be matched with cable size envisaged by owner)                                  |               |
| 2.e       | Fault level (MVA), Fault level duration (sec)                                                              |               |
| 2.f       | Cable glands & lugs details (shall be suitable for power cable recommended by motor vendor (vendor scope ) |               |
| 3         | Type of DE/NDE Bearing                                                                                     |               |
| 4         | Motor Paint shade                                                                                          | RAL 5012 Blue |
| <b>5</b>  | <b>Weight of</b>                                                                                           |               |
| 5.a       | Motor stator (KG)                                                                                          |               |
| 5.b       | Motor Rotor (KG)                                                                                           |               |
| 5.c       | Total weight (KG)                                                                                          |               |

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|           |                                                                             |  |
|-----------|-----------------------------------------------------------------------------|--|
| <b>D.</b> | List of accessories.                                                        |  |
| 1.        | Space Heaters (Nos./Power in watts/supply voltage) for motor 30KW and above |  |
| 2.        | Terminal Box for Space Heater (Yes/No)                                      |  |
| 3.        | Speed switch (Yes/No)<br>No of contacts and contact ratings of speed switch |  |
| 4.        | Insulation of bearing (Yes/No)                                              |  |
| 5.        | Noise reducer(Yes/No)                                                       |  |
| 6.        | Grounding pads                                                              |  |
| 6.a       | No and size on motor body                                                   |  |
| 6.b       | Nos on terminal Box                                                         |  |
| 7.        | Any other fitments                                                          |  |
| <b>E.</b> | <b>List of curves. (All curves to be attached along with offer)</b>         |  |
| 1.        | Torque speed characteristic of the motor (enclosed yes / No )               |  |
| 2.        | Thermal withstand characteristic ((enclosed yes / No )                      |  |
| 3.        | Starting. current Vs. Time ((enclosed yes / No )                            |  |
| 4.        | Starting. current Vs speed (enclosed yes / No )                             |  |
| 5.        | P.F. and Effi. Vs Load<br>(enclosed yes / No )                              |  |

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