

## Data sheet for three-phase motors



MLFB-Ordering data: 1LA8315-6PM80

Client order no.:

Order no.:

Offer no.:

Remarks:

Item no.:

Consignment no.:

Project:

| Electrical data:                                        |                    |        |             |        |
|---------------------------------------------------------|--------------------|--------|-------------|--------|
| <b>Type data:</b>                                       |                    |        |             |        |
| Power P                                                 | 190 kW             |        |             |        |
| Thermal class / utilisation                             | 155(F) to 155(F)   |        |             |        |
| Rated voltage U D/Y                                     | 400/690 VD/Y 50 Hz |        |             |        |
| Frequency f                                             | 50 Hz              |        |             |        |
| Speed n                                                 | 990 1/min          |        |             |        |
| Motor torque M                                          | 1833 Nm            |        |             |        |
| Current I                                               | VD<br>340 A        |        | VY<br>197 A |        |
| <b>Rated data:</b>                                      |                    |        |             |        |
| Rated power P <sub>N</sub> :                            | 190 kW             |        |             |        |
| Thermal class / utilisation                             | 155(F) to 155(F)   |        |             |        |
| Service factor                                          | 1.00               |        |             |        |
| Rated speed n <sub>N</sub>                              | 990 1/min          |        |             |        |
| Rated torque M <sub>N</sub>                             | 1833 Nm            |        |             |        |
| Rated current I <sub>N</sub>                            | VD<br>340 A        |        | VY<br>197 A |        |
| Starting / rated current I <sub>A</sub> /I <sub>N</sub> | N/A                |        |             |        |
| Breakdown/rated torque M <sub>K</sub> /M <sub>N</sub>   | 2.70               |        |             |        |
| Starting / rated torque M <sub>A</sub> /M <sub>N</sub>  | N/A                |        |             |        |
| Efficiency class in acc. to 60034-30-1/NEMA             | none               |        |             |        |
| Partial load P/P <sub>N</sub>                           | 5/4                | 4/4    | 3/4         | 2/4    |
| Efficiency η in % in acc. to IEC 60034-2-1              | 94.2 %             | 95.0 % | 95.2 %      | 94.8 % |
| Power factor cos φ                                      | 0.85               | 0.85   | 0.79        | 0.70   |

| Mechanical data:                         |                          |               |  |  |
|------------------------------------------|--------------------------|---------------|--|--|
| Moment of inertia J <sub>mot</sub>       |                          | 6.0 kg*m²     |  |  |
| Rotor winding material                   |                          | Al            |  |  |
| Bearing DE                               | deep-groove ball bearing | 6218 C3       |  |  |
| Bearing NDE                              | deep-groove ball bearing | 6218 C3 *     |  |  |
| Direction of rotation                    |                          | Both          |  |  |
| Relubrication interval/quantity DE   NDE |                          | 6000 h / 40 g |  |  |

| Environmental conditions:          |  |        |  |  |
|------------------------------------|--|--------|--|--|
| Coolant temperature K <sub>T</sub> |  | 40 °C  |  |  |
| Installation altitude              |  | 1000 m |  |  |

| General data:                |                                                                                               |
|------------------------------|-----------------------------------------------------------------------------------------------|
| Frame size                   | 315                                                                                           |
| Method of cooling            | IC411 - self ventilated open-circuit cooled                                                   |
| Mode of operation            | Converter without filter                                                                      |
| Type of construction         | IM B3                                                                                         |
| Degree of protection         | IP55                                                                                          |
| Total weight                 | 1300 kg                                                                                       |
| Coating (paint finish)       | Standard paint finish                                                                         |
| Color, paint shade           | RAL 7030                                                                                      |
| Type of explosion protection | none                                                                                          |
| Standards/specifications     | IEC, DIN, ISO, VDE, EN                                                                        |
| Motor protection             | PTC thermistor motor protection using 6 integrated temperature sensors for alarm and shutdown |

| Terminal box:                       |                         |
|-------------------------------------|-------------------------|
| Type of terminal box                | GT640                   |
| Conductor cross section, max. (IEC) | 185 mm²                 |
| Contact screw thread                | M12                     |
| Cable diameter from ... to ...      | 41,0 ... 56,5           |
| Cable entry                         | 2 x M72x2 + 2 x M20x1,5 |

| Special design: |  |
|-----------------|--|
|-----------------|--|

\* Standard: insulated bearing at NDE - VL0241

\* Standard: insulated bearing at NDE - VLO241

Technical data are subject to change! There may be discrepancies between calculated and rating plate values.

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