

Data sheet for three-phase motors



MLFB-Ordering data: 1LA8407-2PM70

Client order no.:

Order no.:

Offer no.:

Remarks:

Item no.:

Consignment no.:

Project:

Electrical data:				
Type data:				
Power P	680 kW			
Thermal class / utilisation	155(F) to 155(F)			
Rated voltage U D/Y	690 VD 50 Hz			
Frequency f	50 Hz			
Speed n	2986 1/min			
Motor torque M	2175 Nm			
Current I	VD 640 A			
Rated data:				
Rated power P _N :	680 kW			
Thermal class / utilisation	155(F) to 155(F)			
Service factor	1.00			
Rated speed n _N	2986 1/min			
Rated torque M _N	2175 Nm			
Rated current I _N	VD 640 A			
Starting / rated current I _A /I _N	N/A			
Breakdown/rated torque M _K /M _N	3.00			
Starting / rated torque M _A /M _N	N/A			
Efficiency class in acc. to 60034-30-1/NEMA	none			
Partial load P/P _N	5/4	4/4	3/4	2/4
Efficiency η in % in acc. to IEC 60034-2-1	96.5 %	96.7 %	96.8 %	96.6 %
Power factor cos φ	0.93	0.92	0.91	0.87

Mechanical data:				
Moment of inertia J _{mot}	11.0 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	clockwise			
Relubrication interval/quantity DE NDE	4000 h / 20 g			

Environmental conditions:				
Coolant temperature K _T	40 °C			
Installation altitude	1000 m			

General data:	
Frame size	400
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	3200 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	1XB1 631
Conductor cross section, max. (IEC)	240 mm²
Contact screw thread	M16
Cable diameter from ... to ...	56,0 ... 68,5
Cable entry	4 x M80x2 + 2 x M25x1,5

Special design:	
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* 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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