

Data sheet for three-phase motors



MLFB-Ordering data: 1LA8357-6PB80

Client order no.:

Order no.:

Offer no.:

Remarks:

Item no.:

Consignment no.:

Project:

Electrical data:				
Type data:				
Power P	400 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	993 1/min			
Motor torque M	3847 Nm			
Current I	VD 699 A	VY 405 A		
Rated data:				
Rated power P _N :	400 kW			
Thermal class / utilisation	155(F) to 155(F)			
Service factor	1.00			
Rated speed n _N	993 1/min			
Rated torque M _N	3847 Nm			
Rated current I _N	VD 699 A	VY 405 A		
Starting / rated current I _A /I _N	N/A			
Breakdown/rated torque M _K /M _N	2.80			
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	95.5 %	96.0 %	96.1 %	95.7 %
Power factor cos φ	0.87	0.86	0.82	0.72
Mechanical data:				
Moment of inertia J _{mot}	16.0 kg*m²			
Rotor winding material	Al			
Bearing DE	deep-groove ball bearing	6220 C3		
Bearing NDE	deep-groove ball bearing	6220 C3 *		
Direction of rotation	Both			
Relubrication interval/quantity DE NDE	6000 h / 40 g			
Environmental conditions:				
Coolant temperature K _T	40 °C			
Installation altitude	1000 m			

General data:	
Frame size	355
Method of cooling	IC411 - self ventilated open-circuit cooled
Mode of operation	Converter with du/dt filter or sine-wave filter
Type of construction	IM B3
Degree of protection	IP55
Total weight	2200 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 621
Conductor cross section, max. (IEC)	240 mm²
Contact screw thread	M16
Cable diameter from ... to ...	56,0 ... 68,5
Cable entry	2 x M80x2 + 2 x M25x1,5
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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