

Data sheet for three-phase motors



MLFB-Ordering data: 1LA8407-6PM80

Client order no.:
Order no.:
Offer no.:
Remarks:

Item no.:
Consignment no.:
Project:

Electrical data:					General data:				
Type data:					Frame size400				
Power P		545 kW			Method of cooling		IC411 - self ventilated open-circuit cooled		
Thermal class / utilisation		155(F) to 155(F)			Mode of operation		Converter without filter		
Rated voltage U D/Y		400/690 VD/Y 50 Hz			Type of construction		IM B3		
Frequency f		50 Hz			Degree of protection		IP55		
Speed n		993 1/min			Total weight		3200 kg		
Motor torque M		5241 Nm			Coating (paint finish)		Standard paint finish		
Current I		VD 952 A		VY 552 A	Color, paint shade		RAL 7030		
Rated data:					Type of explosion protectionnone				
Rated power P _N :		545 kW			Standards/specifications		IEC, DIN, ISO, VDE, EN		
Thermal class / utilisation		155(F) to 155(F)			Motor protection		PTC thermistor motor protection using 6 integrated temperature sensors for alarm and shutdown		
Service factor		1.00							
Rated speed n _N		993 1/min							
Rated torque M _N		5241 Nm							
Rated current I _N		VD 952 A		VY 552 A					
Starting / rated current I _A /I _N		N/A							
Breakdown/rated torque M _K /M _N		2.70							
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		95.7 %	96.1 %	96.2 %	96.0 %				
Power factor cos φ		0.87	0.86	0.81	0.71				
Mechanical data:									
Moment of inertia J _{mot}		27.0 kg*m²							
Rotor winding material		Al							
Bearing DE	deep-groove ball bearing	6224 C3							
Bearing NDE	deep-groove ball bearing	6224 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							
					* Standard: insulated bearing at NDE - VL0241				

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

* Standard: insulated bearing at NDE - VLO241