



Figure similar

MLFB-Ordering data

1PH8224-2DD23-1BC1

Client order no. :

Item no. :

Order no. :

Consignment no. :

Offer no. :

Project :

Remarks :

Engineering data

		P _N [kW]	M _N [Nm]	I _N [A]	U _N [V]	f _N [Hz]	n _N [rpm]	M _{max} [Nm]	I _{max} [A]	n _{max} [rpm]	M ₀ [Nm]	I ₀ [A]	η
Y	ALM 400V	115.0	955.0	250.0	310	77.0	1150	2400	640.0	3500.0	1007.0	262	0.959
	BLM/SLM 400V	101.0	964.0	255.0	275	67.0	1000	2400	640.0	3500.0	1007.0	262	0.956
	ALM/BLM/SLM 480V	135.0	955.0	250.0	365	90.0	1350	2400	6740.0	3500.0	1007.0	262	0.961

Mechanical data

Motor type	Permanent-magnet synchronous motor
Shaft height	225
Cooling	Water cooling
Vibration severity grade	RIA
Shaft and flange accuracy	R
Degree of protection	IP55
Design acc. to Code I	IM B35 with A550 flange (IM V35)
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Standard
Shaft extension	Feather key with full key balancing
Encoder system	Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm

Connection

Type of electrical connection	Terminal box
Terminal box position	NDE top
Power connection	NDE
Signal connection	right
Terminal box designation	1XB7700-P02

Physical constants

Thermal time constant	16 min
Moment of inertia	1.28000 kgm ²
Weight (approx.)	580 kg



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Cooling data and sound pressure level

Flow rate, min. 25 l/min

Sound pressure level LpA(1m) motor rated load, tolerance + 3dB 70 dB *

Pressure drop 0.9 bar

NDE thread connection 0.375 Inches

Cooling water specification

pH value 6 ... 9

Total hardness 1.7 mmol/l

Electrical conductivity 2000 μ S/cm

Chloride ions 250 mg/l

Sulfate ions 240 mg/l

Nitrate ions 50 mg/l

Dissolved substances 340 mg/l

Maximum particle size 100 μ m

Antifreeze/corrosion protection 20 ... 30 %

* at a rated frequency of 2 kHz and a speed range of up to 4500 rpm