MMA80-8-AA1

400V_{AC} / **565V**_{DC} **LIQUID COOLED ELECTRIC MOTORS**



PRODUCT DATASHEET





DATASHEET

Performance data were determined with a thermally decoupled motor and a coolant temperature of 60°C at 6 l/min (water/ethylenglycol 50/50)

MMA80 AA1 is specifically designed for auxiliaries and can be proposed with flange inverter emDrive H05.

Parameter	Unit	Value
		400 Vac / 565 Vdc
Power	[kW]	5.2
Torque (rated @ 100°C*)	[Nm]	11.5
Torque (rated @ 120°C*)	[Nm]	16.5
Torque (max @ 100°C*) (60 sec.) **	[Nm]	21.5
Torque (max @ 120°C*) (30 sec.) **	[Nm]	21.5
Speed (rated)	[rpm]	3000
Speed (max)	[rpm]	3800
Freq. (rated)	[Hz]	400
Pole pairs		8
Current (rated) @ rated Torque 120°C*	[ARMS]	11.5
Current (max) @ max. Torque	[ARMS]	15.4
Motor voltage (rated phase to phase)	[VRMS]	400
DC-link voltage	[V]	≥ 560
Phase:		
k _E	[VRMS/krpm]	57
R _{Ph,20}	[Ohm]	0.63
La	[mH]	2.7
Lq	[mH]	2.85
Line to line:		
ke,ll	[VRMS/krpm]	98.7
RLL,20	[Ohm]	1.26
LLL,d	[mH]	5.4
LLL,q	[mH]	5.7
Connection		Υ
Moment of inertia	[kgm²]	0.0020
Weight	[kg]	8.6
Protection class		IP67
Thermal class		н
Thermal protection		PTC (Pt1000 on request)
Cooling type		Water cooled ****
rated flow rate (motor coolant)	[l/min]	6
Pressure drop @ rated flow rate	[bar]	0.015
Coolant		Water/Ethylenglycol 50/50
		or hydraulic oil
Coolant max temperature	[°C]	60
Rotational direction***		Clockwise

^{*}Winding temperature

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^{**}Up to base speed @ max torque speed curve

^{***}The rotational direction is defined according to DIN-EN60034-8 (looking on the motor shaft).

^{****}Technical information about oil cooling on request

EFFICIENCY MAP

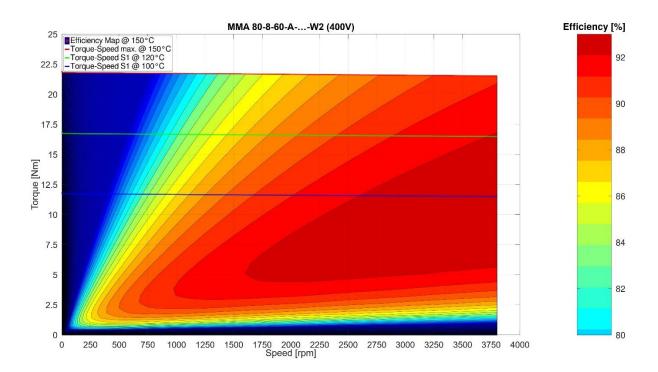


Figure 1 : efficiency map at 565V DC / 400V AC

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