MMA80-8-BA1

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 BA1 is specifically designed for auxiliaries and can be proposed with flange inverter emDrive H05.

Parameter	Unit	Value 400 Vac / 565 Vdc
Torque (rated @ 100°C*)	[Nm]	21.5
Torque (rated @ 120°C*)	[Nm]	25.5
Torque (max @ 100°C*) (60 sec.) **	[Nm]	41.5
Torque (max @ 120°C*) (30 sec.) **	[Nm]	41.5
Speed (rated)	[rpm]	1500
Speed (max)	[rpm]	1500
Freq.	[Hz]	200
Pole pairs		8
Current (rated) @ rated torque 120°C	[A _{RMS}]	8.1
Current (max) @ max torque	[A _{RMS}]	13.5
Motor voltage (rated phase to phase)	[V _{RMS}]	400
DC-link voltage	[V]	>560
Phase:		
k _e	[V _{RMS} /krpm]	125
R _{Ph,20}	[Ohm]	1.63
L _d	[mH]	7.1
Lq	[mH]	8.3
Line to line:		
k _{e,ll}	[V _{RMS} /krpm]	216.5
R _{LL,20}	[Ohm]	3.25
L _{LL,d}	[mH]	14.1
L _{LL,q}	[mH]	16.5
Connection		Y
Moment of inertia	[kgm ²]	0.0030
Weight	[kg]	11
Protection class		IP67
Thermal class		Н
Thermal protection		PTC (Pt1000 on request)
Cooling type		Water cooled ****
rated flowrate (motor coolant)	[l/min]	6
Pressure drop @ rated flow rate	[bar]	0.014
Coolant		Water/Ethylenglycol 50/50
		or hydraulic oil
Max. cooling pressure (motor coolant)	[bar]	3
Coolant max temperature	[°C]	60
Rotational direction***		Clockwise

*Winding temperature

**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

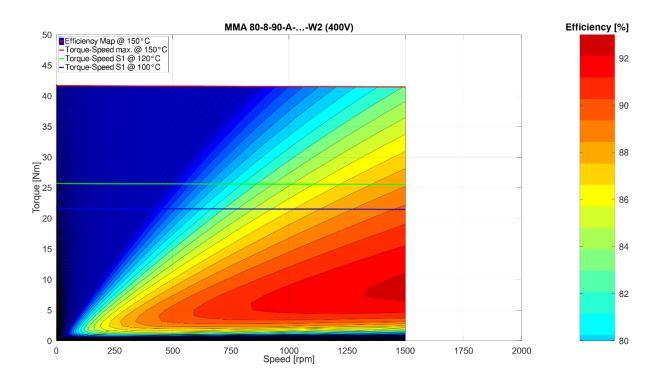


Figure 1 : efficiency map at 565V DC / 400V AC





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