

Data sheet

Item no. / Configuration 01 / 2102090-2.20-020101-S-A00411

Description HMA2 90L-2 230/400 V 50 Hz 2,2 kW

General data	
Standard series	IEC 60034
Type	HMA2 90L-2
Design	230 VD / 400 VY 50 Hz + 280 VD / 480 VY 60 Hz
Direction of rotation	CW
Installation max. altitude (m)	1.000
Poles	2

Motor protection	
Winding temp. detector	No
Temp. detector type	None
Bearing detector	No
Winding PTC main	PTC 3 x 155°C
Winding PTC spare	None
Space heater	None
Terminal board thread	M4
Electrical insulation	Standard (1350 V @ 0.8 µs)
Tropical insulation	Yes
SPM	N/A
External grounding	Yes
Drain hole	Yes
Rain cap	No

Classification	
Class society	
Shaft requirement acc. to	None
Ex. code	No

Mechanical data	
Frame / Shaft height	IEC 90
Type of construction	B5
Cooling method	IC411
Protection class	IP55
Temp. insulation class	F
Frame material	Aluminum
Keyway	Closed
Balancing	Half key
IEC vibration class	A
Weight (kg)	17
Bearing (DE)	6205 2Z / C3 / DGBB
Bearing (NDE)	6205 2Z / C3 / DGBB
Fixed bearing	DE
Moment of inertia (kg×m ²)	0.0026
Painting (color)	RAL 9005
Corrosion protection	C3L
Main terminal box pos.	DE top
Main cable entries	Cable gland 1xM20x1.5 Ø6-12 mm
Main cable direction	Right from DE
Main cable material	Nickel plated brass
Aux. cable entries	Blind cap 1xM20x1.5
Aux. cable direction	Right from DE
Aux. cable material	Nickel plated brass

Winding operation variants						
Rated power (kW)	2.2	2.13	2.56			
Frequency (Hz)	50	50	60			
Connection	D/Y	D/Y	D/Y			
Voltage (V)	230 / 400	220 / 380	254 / 440			
Full load current (A)	7.64 / 4.41	8.34 / 4.81	8.11 / 4.69			
No load current (A)	1.99	2.32	2.58			
Speed (rpm)	2873	2873	3448			
Power factor 100/75/50 (%)	0.86 / /	0.87 / /	0.86 / /			
Efficiency 100/75/50 (%)	83.5 / 85 / 84.8	83.5 / 85 / 84.8	83.5 / 85 / 84.8			
Efficiency class	IE2	IE2	IE1			
Full load torque (Nm)	7.31	7.09	7.09			
Tst/Tn	3.18	2.91	3.17			
Tmax/Tn	3.1	2.84	3.1			
Ist/In	7.87	6.97	8.11			
Temp. rise class	B	B	B			
Duty	S1	S1	S1			
Sound pressure level (dBA)	66	66	71			
Min. ambient temp. (°C)	-20°C	-20°C	-20°C			
Max. ambient temp. (°C)	40°C	45°C	45°C			

Data are not binding. Hoyer reserves the right to implement changes without notice. The extent of data are not equivalent to nameplate on the motors.