

Data sheet

Ref. no.	1769960	Sales order	SODK-231151
Item no. / Configuration	01 / 2104280-0110-040202-M-027687	Our reference	Thobias Carøe Schacht
Description	HMC2-280MB-4 400/690 V 50 Hz 110 kW	Date	10-11-2025

General data		Mechanical data	
Standard series	IEC 60034	Frame / Shaft height	IEC 280
Type	HMC2 280MB-4	Type of construction	B35
Design	400 VD / 690 VY 50 Hz + 480 VD / 830 VY 60 Hz	Cooling method	IC411
Direction of rotation	CW	Protection class	IP55
Installation max. altitude (m)	1.000	Temp. insulation class	F
Poles	4	Frame material	Cast iron
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 230 V 100 W Terminal board thread M10 Electrical insulation Standard (1350 V @ 0.8 µs) Tropical insulation Yes SPM N/A External grounding Yes Drain hole Yes Rain cap No		Keyway	Closed
		Balancing	Half key
		IEC vibration class	A
		Weight (kg)	811
		Bearing (DE)	6317 / C3 / DGBB
		Bearing (NDE)	6317 / C3 / DGBB
		Fixed bearing	DE
		Moment of inertia (kg×m²)	3
		Painting (color)	RAL 9005
		Corrosion protection	C3L
		Main terminal box pos.	DE top
		Main cable entries	Cable gland 2xM63x1.5 Ø37-44 mm
		Main cable direction	Right from DE
		Main cable material	Nickel plated brass
		Aux. cable entries	Blind cap 2xM20x1.5
		Aux. cable direction	NDE
		Aux. cable material	Nickel plated brass
Classification			
Class society			
Shaft requirement acc. to	Shaft inspection		
Ex. code	No		
Industrial certification	None		

Winding operation variants				
Rated power (kW)	110	107	128	
Frequency (Hz)	50	50	60	
Connection	D/Y	D/Y	D/Y	
Voltage (V)	400 / 690	380 / 660	440 / 762	
Full load current (A)	191 / 110	209 / 121	203 / 117	
No load current (A)	68	79.31	88.28	
Speed (rpm)	1488	1488	1785	
Power factor 100/75/50 (%)	0.88 / 0 / 0	0.89 / 0 / 0	0.88 / 0 / 0	
Efficiency 100/75/50 (%)	94.2 / 93.7 / 92.3	94.2 / 93.7 / 92.3	94.2 / 93.7 / 92.3	
Efficiency class	IE2	IE2	IE1	
Full load torque (Nm)	706	685	685	
Tst/Tn	2.65	2.43	2.65	
Tmax/Tn	3.4	3.12	3.4	
Ist/In	7.5	6.64	7.73	
Temp. rise class	F	F	F	
Duty	S1	S1	S1	
Sound pressure level (dBA)	103	103	106	
Min. ambient temp. (°C)	-20°C	-20°C	-20°C	
Max. ambient temp. (°C)	40°C	45°C	45°C	

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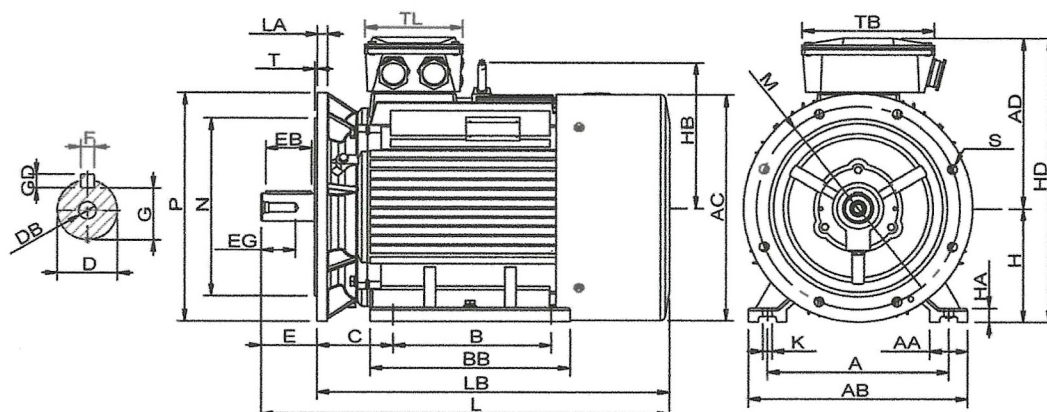
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A 457.00	AA 85.00	AB 542.00	AC 558.00	AD 419.00	B 419.00	BB 536.00	C 190.00	D 75.00	DB 20.00	E 140.00	EB 110.00	EG 56.00	F 20.00	G 67.50	GD 12.00
H 280.00	HA 35.00	HB 407.00	HD 699.00	K 24.00	L 1097.00	LA 22.00	LB 957.00	M 500.00	N 450.00	P 550	S 18.5	T 5.00	TB 305.00	TL 230.00	