

Technical data sheet



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Motor Type: AZ 220-100-P140B-ACVI
Motor Code: 749.3.678
Motor voltage: 3 x 400-480 VAC

Characteristics:

Rated Speed	1410	[min ⁻¹]
Max. Speed	2100	[min ⁻¹]
Max. Power	6,6	[kW]
Rated Torque	44	[Nm]
Max. Torque	33	[Nm]
Speed at Max. Torque	1910	[min ⁻¹]
Max. Frequency	175,0	[Hz]
Efficiency at rated speed and torque	93,8	[%]

Mechanical data:

Mass	41,9	[kg]
Frame Size	/	
Bearings DE / NDE	6206 ZZ C3E / 6206 ZZ C3E	
Bearing manufacturer	SKF / NSK	
Dust and humidity protection	IP55	
Insulation class	Class 180 (H) D-180-1	
Temperature rise class	80 (B)	
max. dU/dt	14	[kV/μs]
Moment of Inertia	0,128	[kgm ²]
Direction of Rotation	CW/CCW	
Duty type	S1	
Motor frame material	Aluminium	
Front/Back flange material	Aluminium	
Bearing seat material	Steel	
Balancing grade	G 6.3 - full key	

Electrical data:

Nr. of Poles	10	
Connection	Delta	
BackEMF constant	340	[mVs/rad]
Torque constant	3,61	[Nm/A]
Winding line to star point resistance	0,17	[Ω]
Winding line to star point d axis inductance	7,5	[mH]
Winding line to star point q axis inductance	9,1	[mH]
BackEMF at 1000 rpm line to line	218	[V]
cos φ at rated speed and torque	0,8	
Max. current	12,0	[A]

Environmental conditions:

Ambient temperature:	-40 to +40	[°C]
Max. Altitude above sea level:	1800	[m]

Additional data:

Cooling fan material	Polyamide 6
Hybrid ceramic bearings	
UL/CSA approved	
UL/CSA No.	20150505-E469626
CE marked	

Date: 17.5.2021