

Data sheet for three-phase Squirrel-Cage-Motors



Type: 1TZ9 A 80M-4

Motor type: 1AV3083B

Customer :

Date :

Order no.:

Our order :

Remarks :

Item nr. :

U	Δ / Y	f	P	P	I	n	M	NOM. EFF at ... load [%]			Power factor at ... load			I _A /I _N	M _A /M _N	M _K /M _N	IE-CL
[V]		[Hz]	[kW]	[hp]	[A]	[1/min]	[Nm]	4/4	3/4	2/4	4/4	3/4	2/4	I/I _N	T/T _N	T _B /T _N	
400	Δ	50	0.75	- / -	1.75	1450	5.0	82.5	82.3	79.9	0.75	0.66	0.53	7.1	2.7	3.9	IE3
690	Y	50	0.75	- / -	1.01	1450	5.0	82.5	82.3	79.9	0.75	0.66	0.53	7.1	2.7	3.9	IE3
460	Δ	60	0.86	- / -	1.72	1750	4.7	83.5	83.2	80.8	0.75	0.67	0.54	7.7	2.7	4.1	IE3
460	Δ	60	0.75	- / -	1.59	1760	4.0	83.5	82.6	79.3	0.71	0.62	0.49	8.3	3.1	4.7	IE3
IM B5 / IM 3001			FS 80 M		14 kg	IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

Mechanical data		
Sound pressure level 50Hz/60Hz (load)	53 dB(A) ¹⁾	53 dB(A) ¹⁾
Moment of inertia	0.0029 kg m²	
Bearing DE NDE	6204 2Z C3	6004 2Z C3
Bearing lifetime	40000 h	
Lubricants	Unirex N3	
Regreasing device	No	
Grease nipple	- / -	
Type of bearing	Preloaded bearing DE	
Condensate drainage holes		
External earthing terminal		
Vibration severity grade	A	
Insulation	155(F) to 130(B)	
Duty type	S1	
Direction of rotation	bidirectional	
Frame material	aluminum	
Data of anti condensation heating	-/-	
Coating (paint finish)	Standard paint finish C2	
Color, paint shade	RAL7030	
Motor protection	(A) without (Standard)	
Method of cooling	IC411 - self ventilated, surface cooled	

Terminal box	
Terminal box position	top
Material of terminal box	Aluminium
Type of terminal box	TB1 E00
Contact screw thread	M4
Max. cross-sectional area	1.5 mm²
Cable diameter from ... to ...	9.0 mm - 17.0 mm
Cable entry	1xM25x1,5
Cable gland	1 plug

Special design (0)

Environmental conditions	
Ambient temperature	-20 °C - +40 °C
Altitude above sea level	1000 m

Notes	
I _A /I _N = locked rotor current / current	M _K /M _N = break down torque / nominal torque
M _A /M _N = locked rotor torque / torque	1) at rated power