

Data sheet for three-phase Squirrel-Cage-Motors



Type: 1TZ9 A 90L-2

Motor type: 1AV3094A

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 _A /T _N	T _B /T _N	
230	Δ	50	2.20	- / -	7.30	2910	7.2	85.9	86.8	86.1	0.88	0.83	0.73	8.3	2.6	4.0	IE3
400	Y	50	2.20	- / -	4.20	2910	7.2	85.9	86.8	86.1	0.88	0.83	0.73	8.3	2.6	4.0	IE3
460	Y	60	2.54	- / -	4.20	3510	6.9	86.5	87.0	85.9	0.88	0.84	0.75	8.3	2.6	4.2	IE3
460	Y	60	2.20	- / -	3.65	3530	6.0	86.5	86.4	84.5	0.87	0.82	0.71	9.6	3.0	4.9	IE3
IM B14 / IM 3601			FS 90 L		19 kg		IP55	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

Mechanical data		
Sound pressure level 50Hz/60Hz (load)	65 dB(A) ¹⁾	69 dB(A) ¹⁾
Moment of inertia	0.0031 kg m²	
Bearing DE NDE	6205 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