

Data sheet for three-phase Squirrel-Cage-Motors



Type: 1TZ9 A 112M-2

Motor type: 1AV3112A

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 /I _N	T _I /T _N	T _B /T _N	
400	Δ	50	4.00	- / -	7.40	2950	12.9	88.1	88.7	88.2	0.89	0.86	0.78	8.7	2.5	4.0	IE3
690	Y	50	4.00	- / -	4.25	2950	12.9	88.1	88.7	88.2	0.89	0.86	0.78	8.7	2.5	4.0	IE3
460	Δ	60	4.55	- / -	7.20	3550	12.2	88.5	88.7	87.6	0.90	0.87	0.81	9.0	2.6	4.1	IE3
IM B5 / IM 3001			FS 112 M			34 kg	IP55	IEC/EN 60034			IEC, DIN, ISO, VDE, EN						

Mechanical data		
Sound pressure level 50Hz/60Hz (load)	69 dB(A) ¹⁾	73 dB(A) ¹⁾
Moment of inertia	0.012 kg m²	
Bearing DE NDE	6206 2Z C3	6206 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	
Environmental conditions		
Ambient temperature	-20 °C - +40 °C	
Altitude above sea level	1000 m	

Terminal box	
Terminal box position	top
Material of terminal box	Aluminium
Type of terminal box	TB1 F00
Contact screw thread	M4
Max. cross-sectional area	4.0 mm²
Cable diameter from ... to ...	11.0 mm - 21.0 mm
Cable entry	2xM32x1,5
Cable gland	2 plugs
Special design (0)	

Notes

I_A/I_N = locked rotor current / current nominal M_K/M_N = break down torque / nominal torque
M_B/M_N = locked rotor torque / torque nominal 1) Value is valid only for DOL operation with motor design IC411