

Data sheet for three-phase Squirrel-Cage-Motors



Type: 1TZ9 A 100L-2

Motor type: 1AV1106A

Customer :

Order no.:

Remarks :

Date :

Our order :

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 _L /I _N	T _L /T _N	T _B /T _N	
400	Δ	50	4.00	- / -	8.20	2850	13.0	83.1	83.9	83.0	0.85	0.79	0.67	7.0	4.5	4.1	IE1
690	Y	50	4.00	- / -	4.75	2850	13.0	83.1	83.9	83.0	0.85	0.79	0.67	7.0	4.5	4.1	IE1
460	Δ	60	4.55	- / -	7.90	3450	13.0	84.5	85.0	83.9	0.86	0.81	0.71	7.5	4.0	3.9	IE1
IM B3 / IM 1001			FS 100 L			25 kg	IP55	IEC/EN 60034			IEC, DIN, ISO, VDE, EN						

Mechanical data			Terminal box	
Sound pressure level 50Hz/60Hz (load)	67 dB(A) ¹⁾	71 dB(A) ¹⁾	Terminal box position	top
Moment of inertia	0.0044 kg m²		Material of terminal box	Aluminium
Bearing DE NDE	6206 2Z C3	6206 2Z C3	Type of terminal box	TB1 F00
Bearing lifetime	40000 h		Contact screw thread	M4
Lubricants	Esso Unirex N3		Max. cross-sectional area	4.0 mm²
Regreasing device	No		Cable diameter from ... to ...	11.0 mm - 21.0 mm
Grease nipple	- / -		Cable entry	2xM32x1,5
Type of bearing	Preloaded bearing DE		Cable gland	2 plugs
Condensate drainage holes	Yes		Special design (0)	
External earthing terminal				
Vibration severity grade	A			
Insulation	155(F)			
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 - +45 °C
Altitude above sea level	1000 m

Notes	
I _A /I _N = locked rotor current / current nominal	M _K /M _N = break down torque / nominal torque
M _A /M _N = locked rotor torque / torque nominal	1) Value is valid only for DOL operation with motor design IC411