

Data sheet for three-phase Squirrel-Cage-Motors



Type: 1TZ9 A 160L-6

Motor type: 1AV3164C

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	11.00	- / -	22.00	980	107.0	90.3	90.8	90.2	0.80	0.75	0.65	6.8	2.9	2.8	IE3
690	Y	50	11.00	- / -	12.70	980	107.0	90.3	90.8	90.2	0.80	0.75	0.65	6.8	2.9	2.8	IE3
460	Δ	60	12.60	- / -	21.50	1180	102.0	91.7	92.1	91.3	0.80	0.75	0.66	7.1	3.0	2.8	IE3
460	Δ	60	11.00	- / -	19.30	1185	89.0	91.7	91.7	90.5	0.78	0.73	0.62	8.0	3.4	3.2	IE3
IM B35 / IM 2001			FS 160 L		106 kg	IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

Mechanical data			Terminal box	
Sound pressure level 50Hz/60Hz (load)	67 dB(A) ¹⁾	70 dB(A) ¹⁾	Terminal box position	top
Moment of inertia	0.164 kg m²		Material of terminal box	Aluminium
Bearing DE NDE	6209 2Z C3	6209 2Z C3	Type of terminal box	TB1 J00
Bearing lifetime	40000 h		Contact screw thread	M5
Lubricants	Unirex N3		Max. cross-sectional area	16.0 mm²
Regreasing device	No		Cable diameter from ... to ...	19.0 mm - 28.0 mm
Grease nipple	- / -		Cable entry	2xM40x1,5
Type of bearing	Locating bearing NDE		Cable gland	2 plugs
Condensate drainage holes	No		Special design (0)	
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

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