

Data sheet for three-phase Squirrel-Cage-Motors



Motor type : 1AV2164C

1TZ9 A - 160 L - IM B5 - 6p

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project

Remarks

Electrical data Safe Area

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	4/4	$\eta^{3)}$ 3/4	2/4	4/4	$\cos\phi^{3)}$ 3/4	2/4	I _A /I _N I _I /I _N	M _A /M _N T _I /T _N	M _K /M _N T _B /T _N	IE-CL
duty (S2) - 155(F) to 155(F)																	
480	Δ	60	14	-/-	24	1170	114							5.7	2.2	2.3	-/-
IM B5 / IM 3001			FS 160 L			IP56	UKCA	IEC/EN 60034	IEC, DIN, ISO, VDE, EN								
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 16.60 s 26.80 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	57.0 / 65.0 dB(A) 2) 3)	65.0 / 73.0 dB(A) 2) 3)	Thermal class	F
Moment of inertia	0.1324 kg m ²		Duty type	S2-10min
Bearing DE NDE	6209 2Z C3	6209 2Z C3	Direction of rotation	bidirectional
Bearing lifetime			Frame material	aluminum
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Net weight of the motor (IM B3)	98 kg
Regreasing device	Without		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(A) without (Standard)
Condensate drainage holes	With		Method of cooling	IC411 - self ventilated, surface cooled
External earthing terminal	Without		Carbon footprint (without options)	465kg
Vibration severity grade	A			

Terminal box

Terminal box position	top	Max. cross-sectional area	16.0 mm ²
Material of terminal box	Aluminium	Main cable entry	2xM40x1.5
Type of terminal box	TB1 J00	Main cable gland	2 plugs
Contact screw thread	6xM5		

I_A/I_N = locked rotor current / current nominal
M_A/M_N = locked rotor torque / torque nominal
M_K/M_N = break down torque/ nominal torque

1) L_{10mh} according to DIN ISO 28110/2010
2) at rated power / at full load

3) Value is valid only for DOL operation with motor design IC411

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Responsible department	Technical reference	Created by	Approved by	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>				
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Special design

D23	Motor exclusively for use in transportation equipment for passengers and freight transport corresponding to EVPG § 1 from February 27, 2008	M1L	480 VD for 60 Hz, 60-Hz power
H03	Condensation drain holes in end shield	Q02	Anti-condensation heating for 230 V (2 terminals)
H22	IP 56 degree of protection		

Additional information:

Space heaters

Technical data: 1-phase, 230 V 50W

I_L/I_N = locked rotor current / current nominal
 M_L/M_N = locked rotor torque / torque nominal
 M_b/M_N = break down torque/ nominal torque

1) L_{10min} according to DIN ISO 28110/2010
 2) at rated power / at full load

3) Value is valid only for DOL operation with motor design IC411

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