

Data sheet for three-phase Squirrel-Cage-Motors



Motor type : 1AV1166B

1TZ9 A 160 L - IM B5 - 4p

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

Remarks

Electrical data

Safe Area

U	Δ / Y	f	P	P	I	n	M	$\eta^{3)}$			$\cos\varphi^{3)}$			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	22.8	-/-	43	1450	150							5.8	2.1	2.5	IE1
690	Y	50	22.8	-/-	25	1450	150							5.8	2.1	2.5	IE1
460	Δ	60	22.8	-/-	36.5	1755	124							6.9	2.4	2.9	IE1
IM B5 / IM 3001			FS 160 L		85 kg		IP55	IEC/EN 60034			IEC, DIN, ISO, VDE, EN						

Environmental conditions : -20 °C - +40 °C / 1000 m

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	65.0 / 77.0 dB(A) ²⁾	69.0 / 81.0 dB(A) ²⁾	Condensate drainage holes	Yes
Moment of inertia	0.0680 kg m ²		External earthing terminal	No
Bearing DE NDE	6209 Z C3	6209 Z C3	Vibration severity grade	A
bearing lifetime			Insulation	155(F) to 155(F)
L _{10mh} F _{Rad} max acc. catalogue 50 60Hz ¹⁾	20000 h	16000 h	Duty type	S6-60%
L _{10mh} F _{Rad} min for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity (AS BS)	10 g 10 g	8000 h	Frame material	aluminum
Lubricants	Unirex N3		Coating (paint finish)	Special paint finish C3
Regreasing device	Yes		Color, paint shade	RAL7035
Grease nipple	M8x1 DIN 71412		Motor protection	(A) without (Standard)
Type of bearing	Locating bearing NDE		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Cable diameter from ... to ...	19.0 mm - 28.0 mm
Material of terminal box	Aluminium	Cable entry	2xM40x1,5
Type of terminal box	TB1 J00	Cable gland	2 plugs
Contact screw thread	M5		-/-
Max. cross-sectional area	16.0 mm ²		

Notes:

I_A/I_N = locked rotor current / current nominal
M_k/M_N = locked rotor torque / torque nominal
M_k/M_N = break down torque / nominal torque
1) L10mh according to DIN ISO 281 10/2010
2) at rated power / at full load
3) Value is valid only for DOL operation with motor design IC411

responsible dep.	technical reference	created by	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.				
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Special design

H03	Condensation drain holes in end shield	S02	Special paint finish C3
L23	Regreasing system	Y53	Paint finish in other standard RAL colours RAL7035
R12	Terminal box rotated through 180°		

Notes:

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by		Technical data are subject to change! There may be discrepancies			
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