

Data sheet for three-phase Squirrel-Cage-Motors INNOMOTICS



Motor type : 1CV3166A INNOMOTICS SD - 160 L - IM B3 - 2p

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

Remarks

Safe Area

Electrical data -/-

U	Δ / Y	f	P	P	I	n	M	η ³⁾			cosφ 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	
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	22.00	-/-	37.50	2945	71.0	92.7	92.8	92.2	0.91	0.88	0.80	9.9	3.5	4.4	IE3
690	Y	50	22.00	-/-	22.00	2945	71.0	92.7	92.8	92.2	0.91	0.88	0.80	9.9	3.5	4.4	IE3
460	Δ	60	25.30	-/-	38.00	3545	68.0	91.7	91.7	90.7	0.91	0.89	0.82	9.7	3.4	4.4	IE3
460	Δ	60	22.00	-/-	33.50	3555	59.0	91.7	91.2	89.7	0.90	0.87	0.80	11.0	3.9	5.0	IE3
IM B3 / IM 1001		FS 160 L				IP55	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 13.6 s 19.8 s								

Mechanical data				
Sound level (SPL / SWL) at 50Hz 60Hz	70 / 82 dB(A) ^{2) 3)}	77 / 89 dB(A) ^{2) 3)}	External earthing terminal	Without
Moment of inertia	0.0603 kg m²		Vibration severity grade	A
Bearing DE NDE	6309 Z C3	6309 Z C3	Thermal class	F
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	10 g 10 g 8000 h		Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	137 kg
Regreasing device	With (standard)		Coating (paint finish)	Special paint finish C3
Grease nipple	M8x1 DIN 71412		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(B) 3 PTC thermistors - for tripping (standard) (2 terminals)
Condensate drainage holes	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box																	
Terminal box position				top		Max. cross-sectional area				16 mm ²							
Material of terminal box				cast iron				Cable diameter from ... to ...				19 mm - 28 mm					
Type of terminal box				TB1 J01				Cable entry				2xM40x1,5-1xM16x1,5					
Contact screw thread				M5				Cable gland				3 plugs					

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

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Responsible department IN LVM	Technical reference	Created by SPC	Approved by Created automatically	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents	
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