

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



Motor type : 1CV3104A

INNOMOTICS SD - 100 L - IM B3 - 2p

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

Remarks	Safe Area
	-/-

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)																		
480	Y	60	3.00	4.00	4.80	3525	8.1	88.5	88.2	86.7	0.85	0.80	0.69	11.2	4.6	5.6	MG1	
IM B3 / IM 1001			FS 100 L		CC032A		IP55		UKCA		IEC/EN 60034		IEC, EN, UL, CSA, NEMA MG1-12-12				kVA Code: M	
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 9 s 12.1 s									

Mechanical data				
Sound level (SPL / SWL) at 50Hz 60Hz	72 / 80 dB(A) ^{2) 3)}	75 / 83 dB(A) ^{2) 3)}	External earthing terminal	Without
Moment of inertia	0.0041 kg m²		Vibration severity grade	A
Bearing DE NDE	6206 Z C3	6206 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	5 g 5 g 8000 h		Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	37 kg
Regreasing device	With		Coating (paint finish)	Standard paint finish C2
Grease nipple	M8x1 DIN 71412		Color, paint shade	RAL7030
Type of bearing	Preloaded bearing DE		Motor protection	(A) without (Standard)
Condensate drainage holes	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box																	
Terminal box position			top			Max. cross-sectional area			4 mm²								
Material of terminal box			cast iron			Cable diameter from ... to ...			11 mm - 21 mm								
Type of terminal box			TB1 F01			Cable entry			2xM32x1,5								
Contact screw thread			M4			Cable gland			2 plugs								

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

1) L_{10mh} according to DIN ISO 281 10/2010
2) at rated power I at full load

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

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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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Special design

L23 Regreasing system M2K 480 VY for 60 Hz, 50-Hz power

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