

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



Motor type : 1CV3105B

INNOMOTICS SD - 100 L - IM B5 - 4p

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 _f /I _N	T _i /T _N	T _B /T _N	
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	3.00	-/-	6.20	1450	19.8	87.7	88.1	87.1	0.80	0.73	0.60	8.0	3.1	3.8	IE3
460	Δ	60	3.45	-/-	6.10	1750	18.8	87.5	88.0	87.2	0.81	0.74	0.62	9.0	3.1	4.1	IE2
460	Δ	60	3.00	4.00	5.40	1760	16.3	89.5	89.4	88.0	0.78	0.70	0.58	9.9	3.5	4.7	MG1
IM B5 / IM 3001		FS 100 L		CC032A		IP55		UKCA		IEC/EN 60034		IEC, EN, UL, CSA, NEMA MG1-12-12			kVA Code: N		
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 12.8 s 17.6 s								

Mechanical data				
Sound level (SPL / SWL) at 50Hz 60Hz	67 / 75 dB(A) ^{2) 3)}	70 / 78 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0100 kg m²		Thermal class	F
Bearing DE NDE	6206 2Z C3	6206 2Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Frame material	cast iron
Regreasing device	Without		Net weight of the motor (IM B3)	40 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Preloaded bearing DE		Color, paint shade	RAL7030
Condensate drainage holes	With (standard)		Motor protection	(K) 1 Pt1000 resistance thermometer(2 terminals)
External earthing terminal	Without		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			2xM32x1,5-1xM16x1,5								
Contact screw thread			M4			Cable gland			3 plugs								

I_f/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 / 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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