

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



Motor type : 1CV3104B

INNOMOTICS SD - 100 L - IM B3 - 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 <sup>3)</sup>			cosφ <sup>3)</sup>			I <sub>A</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub>	M <sub>K</sub> /M <sub>N</sub>	IE-CL
[V]		[Hz]	[kW]	[hp]	[A]	[1/min]	[Nm]	4/4	3/4	2/4	4/4	3/4	2/4	I <sub>I</sub> /I <sub>N</sub>	T <sub>I</sub> /T <sub>N</sub>	T <sub>B</sub> /T <sub>N</sub>	
DOL duty (S1) - 155(F) to 130(B)																	
230	Δ	50	2.20	-/-	7.80	1455	14.4	86.7	87.2	86.3	0.82	0.76	0.64	8.3	3.0	3.8	IE3
400	Y	50	2.20	-/-	4.45	1455	14.4	86.7	87.2	86.3	0.82	0.76	0.64	8.3	3.0	3.8	IE3
460	Y	60	2.55	-/-	4.30	1750	13.9	89.5	90.1	89.2	0.83	0.77	0.66	8.8	3.0	3.9	IE3
460	Y	60	2.20	-/-	3.85	1760	11.9	89.5	89.5	88.0	0.80	0.73	0.61	9.9	3.5	4.6	IE3
IM B3 / IM 1001		FS 100 L				IP55	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 18.9 s   23 s								

Mechanical data				
Sound level (SPL / SWL) at 50Hz 60Hz	67 / 75 dB(A) <sup>2) 3)</sup>	70 / 78 dB(A) <sup>2) 3)</sup>	Vibration severity grade	A
Moment of inertia	0.0101 kg m²		Thermal class	F
Bearing DE   NDE	6206 2Z C3	6206 2Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L <sub>10mh</sub> F <sub>Rad min</sub> 50 60Hz <sup>1)</sup> for coupling operation	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	(B) 3 PTC thermistors - for tripping (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<sub>A</sub>/I<sub>N</sub> = locked rotor current / current nominal  
M<sub>A</sub>/M<sub>N</sub> = locked rotor torque / torque nominal  
M<sub>K</sub>/M<sub>N</sub> = break down torque / nominal torque

1) L<sub>10mh</sub> 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.		<a href="#">Link documents</a>	
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Special design


F01	Mounting of holding brake	G04	Mounted rotary pulse encoder LL 861 900 220
F11	Brake supply voltage, 230 V AC, 50/60 Hz	L02	Full-key balancing

Additional information:

Brake:

Description:	BFK458-12	Current:	.2 A
Voltage:	AC 230 V	Moment of inertia:	0.000360 kgm²

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