

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 [V]	Δ/Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η ³⁾ 4/4 3/4 2/4		cosφ ³⁾ 4/4 3/4 2/4		I _A /I _N	M _A /M _N	M _K /M _N	T _B /T _N	IE-CL											
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) ²⁾³⁾	70 / 78 dB(A) ²⁾³⁾	Vibration severity grade	A
Moment of inertia	0.0101 kg m ²		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	(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 mm ²
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_A/I_N = locked rotor current / current nominal
M_A/M_N = locked rotor torque / torque nominal
M_K/M_N = break down torque / nominal torque

1) L_{10mh} according to DIN ISO 281 10/2010

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

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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 kgm ²

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