

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



Motor type : 1CV3163D INNOMOTICS SD - 160 M - IM B3 - 8p

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)																	
400	Δ	50	5.50	-/-	12.40	730	72.0	86.2	87.0	86.3	0.73	0.67	0.55	5.5	2.0	2.4	IE3
690	Y	50	5.50	-/-	7.30	730	72.0	86.2	87.0	86.3	0.73	0.67	0.55	5.5	2.0	2.4	IE3
IM B3 / IM 1001		FS 160 M				IP55	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 31 s   44.1 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	68 / 76 dB(A) <sup>2) 3)</sup>	66 / 79 dB(A) <sup>2) 3)</sup>	External earthing terminal	Without
Moment of inertia	0.1000 kg m <sup>2</sup>		Vibration severity grade	A
Bearing DE   NDE	6309 Z C3	6309 Z C3	Thermal class	F
bearing lifetime			Duty type	S1
L <sub>10mh</sub> F <sub>Rad min</sub> for coupling operation 50 60Hz <sup>1)</sup>	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)	110 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	Cable diameter from ... to ...	19 mm - 28 mm
Material of terminal box	cast iron	Cable entry	2xM40x1,5-1xM16x1,5
Type of terminal box	TB1 J01	Cable gland	3 plugs
Contact screw thread	M5	Cable length	
Max. cross-sectional area	16 mm <sup>2</sup>		

I<sub>A</sub>/I<sub>N</sub> = locked rotor current / current nominal  
M<sub>K</sub>/M<sub>N</sub> = locked rotor torque / torque nominal  
M<sub>B</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 / at full load

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

Transmittal, reproduction, dissemination and/or editing of this document as well as utilization of its contents and communication thereof to others without express authorization are prohibited. Offenders will be held liable for payment of damages. All rights created by patent grant or registration of a utility model or design patent are reserved.

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>	
INNOMOTICS	Document type Technical data sheet			Document status Released			
	Document title 1LE1603-1DD33-4AB4			Document number TDS-250219-170020			
Restricted © Innomotics 2025				Revision AA	Creation date 2025-02-19	Language en	Page 1/1