

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



Motor type : 1CV3162B

INNOMOTICS SD - 160 M - IM B35 - 4p

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

Remarks

Electrical data **Safe Area**

U [V]	Δ/Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	$\eta^{(3)}$			$\cos\phi^{(3)}$			I_A/I_N	M_A/M_N	M_R/M_N	IE-CL
DOL duty (S1) - 180(H) to 155(F)																	
400	Δ	50	11.00	-/-	21.00	1470	71.0	91.4	91.9	91.9	0.82	0.76	0.65	8.0	2.5	3.5	IE3
460	Δ	60	12.60	-/-	20.50	1765	68.0	92.4	92.9	92.6	0.83	0.78	0.68	8.1	3.3	3.5	IE3
460	Δ	60	11.00	15.00	18.80	1775	59.0	92.4	92.6	92.0	0.81	0.75	0.63	9.0	3.8	4.0	MG1

IM B35 / IM 2001	FS 160 M	CC032A	IP55	UKCA	IEC/EN 60034	IEC, EN, UL, CSA, NEMA MG1-12-12	M
Environmental conditions : -20 °C - +60 °C / 1000 m				Locked rotor time (hot / cold) : 26.50 s 34.30 s			

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	67.0 / 75.0 dB(A) ²⁾	70.0 / 78.0 dB(A) ²⁾	Vibration severity grade	A
Moment of inertia	0.0583 kg m ²		Thermal class	H
Bearing DE NDE	6209 Z C3	6209 Z 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)	105 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing NDE		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
			Carbon footprint (without options)	403kg

Terminal box

Terminal box position	right	Main cable entry	2xM40x1.5
Material of terminal box	cast iron	Main cable gland	2 plugs
Type of terminal box	TB1 J01	Auxiliary cable entry	1xM16x1.5
Contact screw thread	6xM5	Auxiliary cable gland	1 plug
Max. cross-sectional area	16.0 mm ²		

I_A/I_N = locked rotor current / current nominal
 M_R/M_N = locked rotor torque / torque nominal
 M_V/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

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 LV	Technical reference	Created by IPC	Approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.	Link documents
INNOMOTICS	Document type Technical data sheet	Document status Released			
	Document title 1LE1523-1DB23-4JB5-Z	Document number TDS-260310-050248			
Restricted © Innomatics 2026	Revision AA	Creation date 2026-03-10	Language en		

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



Motor type : 1CV3162B

INNOMOTICS SD - 160 M - IM B35 - 4p

Special design


Implicit options

I_L/I_N = locked rotor current / current nominal
 M_L/M_N = locked rotor torque / torque nominal
 M_B/M_N = break down torque / nominal torque

1) $L_{(0.75)}$ 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 LV	Technical reference	Created by IPC	Approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.	Link documents
INNOMOTICS	Document type Technical data sheet	Document status Released			
	Document title 1LE1523-1DB23-4JB5-Z	Document number TDS-260310-050248			
Restricted © Innomotics 2026	Revision AA	Creation date 2026-03-10	Language en		