

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



Motor type : 1CV3131A

INNOMOTICS SD Premium Insulation - 132 S - IM B3 - 2p

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
								4/4	3/4	2/4	4/4	3/4	2/4	I_V/I_N	T_I/T_N	T_B/T_N	
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	7.50	-/-	13.20	2950	24.5	90.1	90.9	90.7	0.91	0.89	0.84	9.0	2.1	3.3	IE3
690	Y	50	7.50	-/-	7.70	2950	24.5	90.1	90.9	90.7	0.91	0.89	0.84	9.0	2.1	3.3	IE3
460	Δ	60	8.60	-/-	13.20	3550	23.0	90.2	90.5	90.0	0.91	0.91	0.84	9.2	2.2	3.5	IE3
460	Δ	60	7.50	-/-	11.60	3560	20.0	90.2	90.4	89.6	0.90	0.90	0.83	10.6	2.5	4.1	IE3
IM B3 / IM 1001		FS 132 S		IP65		UKCA		IEC/EN 60034			IEC, DIN, ISO, VDE, EN						

Environmental conditions : -20 °C - +40 °C / 1000 m

Locked rotor time (hot / cold) : 9.40 s | 13.30 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	68.0 / 80.0 dB(A) <small>2) 3)</small>	72.0 / 84.0 dB(A) <small>2) 3)</small>	Vibration severity grade	A
Moment of inertia	0.0310 kg m ²		Thermal class	F
Bearing DE NDE	6208 2Z C3	6208 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)	75 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Preloaded bearing DE		Color, paint shade	RAL7016
Condensate drainage holes	With (standard)		Motor protection	(C) 6 PTC thermistors - for alarm and tripping (4 terminals)
External earthing terminal	With		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	6.0 mm ²
Material of terminal box	cast iron	Main cable entry	2xM32x1.5
Type of terminal box	TB1 J01	Main cable gland	1 EMC cable gland, 1 plug
Contact screw thread	6xM4	Cable diameter from ... to ...	11.0 mm - 21.0 mm

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 1LE1583-1CA13-4AC4-Z B02+F76+H01+H04+H20+Q01+Q35+R14+R50+R62+Y53+Y82	Document number TDS-260224-093735			
Restricted	Revision AA	Creation date 2026-02-24	Language en		Page 1/2
© Innomotics 2026					

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



Motor type : 1CV3131A

INNOMOTICS SD Premium Insulation - 132 S - IM B3 - 2p

Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	Q35	1 Pt1000 resistance thermometer (2 terminals)
F76	Metal external fan	R14	One EMC cable gland
H01	Bolted on mounting feet (instead of cast)	R50	Larger terminal box
H04	External grounding at housing	R62	Cast iron auxiliary terminal box (small)
H20	IP 65 degree of protection	Y53	Paint finish in other standard RAL colours RAL7016
Q01	Measuring nipple for SPM shock pulse measurement to monitor bearings	Y82	Auxiliary name plate with customer data HS1.25.4B4-FPU1 - Rückführpumpe B

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) $L_{(0.95)}$ 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 1LE1583-1CA13-4AC4-Z B02+F76+H01+H04+H20+Q01+Q35+R14+R50+R62+Y53+Y82	Document number TDS-260224-093735			
Restricted © Innomotics 2026	Revision AA	Creation date 2026-02-24	Language en		Page 2/2