

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



Motor type : 1CV3280B

INNOMOTICS SD - 280 S - IM B5 - 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]	η ³⁾			cosφ ³⁾			I _A /I _N I _V /I _N	M _A /M _N T _I /T _N	M _K /M _N T _B /T _N	IE-CL
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	75.00	-/-	133.00	1485	480.0	95.0	95.3	95.0	0.86	0.83	0.75	6.9	2.5	3.0	IE3
690	Y	50	75.00	-/-	77.00	1485	480.0	95.0	95.3	95.0	0.86	0.83	0.75	6.9	2.5	3.0	IE3
460	Δ	60	86.00	-/-	131.00	1785	460.0	94.5	94.7	94.2	0.87	0.85	0.77	6.8	2.5	2.9	IE2
460	Δ	60	75.00	-/-	116.00	1788	400.0	95.4	95.3	94.5	0.85	0.81	0.72	7.7	2.8	3.3	IE3
IM B5 / IM 3001		FS 280 S		IP55		UKCA		IEC/EN 60034			IEC, DIN, ISO, VDE, EN						
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 29.70 s 47.70 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	69.0 / 83.0 dB(A) _{2) 3)}	77.0 / 91.0 dB(A) _{2) 3)}	External earthing terminal	With (standard)
Moment of inertia	1.3900 kg m ²		Vibration severity grade	A
Bearing DE NDE	6317 C3	6317 C3	Thermal class	F
Bearing lifetime			Duty type	S1
L _{10mh} F _{rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	30.0 g 30.0 g 8000 h		Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	570 kg
Regreasing device	With		Coating (paint finish)	Standard paint finish C2
Grease nipple	M10x1 DIN 3404 A		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(A) without (Standard)
Condensate drainage holes	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	120.0 mm ²
Material of terminal box	cast iron	Main cable entry	2xM63x1.5
Type of terminal box	TB1 N01	Main cable gland	2 plugs
Contact screw thread	6xM10		

I_A/I_N = locked rotor current / current nominal
M_K/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
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 1LE1503-2DB03-4FA4-Z D22			Document number TDS-260512-144605			
Restricted © Innomotics 2026				Revision AA	Creation date 2026-05-12	Language en	Page 1/2

INNOMOTICS SD - 280 S - IM B5 - 4p

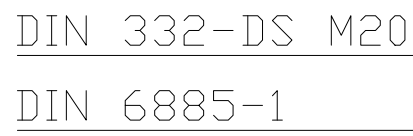
D22	Motor without CE character for export outside the EEA (see EU regulation 2019/1781)
-----	---

L23	Regreasing system	L25	Double sides reinforced bearings for DE and NDE, Type 63
-----	-------------------	-----	--

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 1LE1503-2DB03-4FA4-Z D22			Document number TDS-260512-144605			
Restricted © Innomotics 2026				Revision AA	Creation date 2026-05-12	Language en	Page 2/2

Restricted