

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



Motor type : 1CV4282A

INNOMOTICS SD - 280 M - IM B3 - 2p

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 <sup>3)</sup>			cos φ <sup>3)</sup>			I <sub>A</sub> /I <sub>N</sub> I <sub>I</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub> T <sub>I</sub> /T <sub>N</sub>	M <sub>K</sub> /M <sub>N</sub> T <sub>B</sub> /T <sub>N</sub>	IE-CL	
								4/4	3/4	2/4	4/4	3/4	2/4					
<b>DOL duty (S1) - 155(F) to 130(B)</b>																		
380	Δ	50	90.00	-/-	159.00	2980	290.0	95.8	96.1	95.8	0.90	0.89	0.85	8.5	2.7	3.0	IE4	
660	Y	50	90.00	-/-	91.00	2980	290.0	95.8	96.1	95.8	0.90	0.89	0.85	8.5	2.7	3.0	IE4	
440	Δ	60	90.00	-/-	138.00	3582	240.0	95.4	95.5	95.0	0.90	0.89	0.84	11.0	2.7	3.2	IE4	
440	Δ	60	101.00	-/-	154.00	3580	270.0	95.4	95.6	95.3	0.90	0.90	0.86	9.5	2.4	2.9	IE4	
IM B3 / IM1001			FS 280 M			IP55		UKCA		IEC/EN 60034			IEC, DIN, ISO, VDE, EN					
Environmental conditions : -20 °C - +40 °C / 1000 m										Locked rotor time (hot / cold) : 25.9 s   45.4 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	73 / 87 dB(A) <sup>2) 3)</sup>	76 / 90 dB(A) <sup>2) 3)</sup>	Condensate drainage holes	(Standard) Yes	
Moment of inertia	0.8950 kg m <sup>2</sup>		External earthing terminal	(Standard) Yes	
Bearing DE   NDE	6315 C3 S0	6315 C3 S0	Vibration severity grade	Grade A	
permissible lateral force on (N) (N)	X <sub>0</sub> : 5200	X <sub>0.5</sub> : 4700	X <sub>max</sub> : 4200	Thermal class	F
<b>bearing lifetime</b>				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	25 g   25 g 4000 h		Frame material	cast iron	
Lubricants	UNIREX N3			Net weight of the motor	600 kg
Regreasing device	Flat type lubricating nipple			Coating (paint finish)	Standard paint finish C2
Grease nipple	M10x1 DIN 3404 A			Color, paint shade	RAL7030
Type of bearing	Locating bearing DE			Motor protection	3 PTC thermistors - for tripping (2 terminals)
Bearing insulation DE / Bearing insulation NDE	Yes (Non-drive end)			Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	box at the top	Max. cross-sectional area	120 mm <sup>2</sup>
Material of terminal box	cast iron	Cable diameter from ... to ...	34 mm - 45 mm
Type of terminal box	TB4N01	Cable entry	2xM63x1,5 - 2xM20x1,5
Contact screw thread	6xM10	Cable gland	-/-

I<sub>A</sub>/I<sub>N</sub> = locked rotor current / current nominal  
 M<sub>A</sub>/M<sub>N</sub> = locked rotor torque / torque nominal  
 M<sub>K</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

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Responsible department IN LVM	Technical reference	Created by SPC	Approved by Created automatically	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>	<a href="#">Link documents</a>
<b>INNOMOTICS</b>	Document type Technical data sheet	Document status Released			
	Document title 1LE5504-2DA23-3AB4-Z B02+D47+L51	Document number TDS-241015-124353			
Restricted © Innomotics 2024		Revision AA	Creation date 2024-10-15	Language en	Page 1/2

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## Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	L51	Bearing insulation NDE
D47	TR CU product safety certificate EAC for the Eurasian Customs Union		

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