

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



Motor type : 1CV3280B

SIMOTICS SD - 280 S - IM B3 - 4p

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>			cosφ <sup>3)</sup>			I <sub>A</sub> /I <sub>N</sub> I <sub>f</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub> T <sub>f</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>																	
230	Δ	50	75.00	-/-	230.00	1485	480.0	95.0	95.3	95.0	0.86	0.83	0.75	6.9	2.5	3.0	IE3
400	Y	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
460	Y	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	Y	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 B3 / IM 1001		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) : 29.7 s   47.7 s							

Mechanical data




Sound level (SPL / SWL) at 50Hz 60Hz	69 / 83 dB(A) <sup>2) 3)</sup>	77 / 91 dB(A) <sup>2) 3)</sup>	External earthing terminal	With (standard)
Moment of inertia	1.3900 kg m <sup>2</sup>		Vibration severity grade	A
Bearing DE   NDE	6317 C3	6317 C3	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	30 g   30 g 8000 h		Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	570 kg
Regreasing device	With (standard)		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 mm <sup>2</sup>
Material of terminal box	cast iron	Cable diameter from ... to ...	34 mm - 45 mm
Type of terminal box	TB1 N01	Cable entry	2xM63x1,5
Contact screw thread	M10	Cable gland	2 plugs

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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	Document type Technical data sheet	Document status Released			
	Document title 1LE1503-2DB02-2AA4-Z	Document number TDS-240419-082521			
Restricted © Innomotics 2024	D22	Revision AA	Creation date 2024-04-19	Language en	Page 1/2

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## Special design

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

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