

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



Motor type : 1CV3282B

SIMOTICS SD - 280 M - IM V1 - 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]	$\eta^{3)}$			$\cos\phi^{3)}$			I_A/I_N	M_A/M_N	M_K/M_N	IE-CL	
								4/4	3/4	2/4	4/4	3/4	2/4	I_i/I_N	T_i/T_N	T_B/T_N		
DOL duty (S1) - 155(F) to 130(B)																		
460	Δ	60	90.00	-/-	136.00	1788	480.0	95.4	95.5	94.9	0.87	0.84	0.75	8.0	2.9	3.3	IE3	
IM V1 / IM 3011			FS 280 M			IP55	UKCA	IEC/EN 60034	IEC, DIN, ISO, VDE, EN			KS C IEC60034-2-1						

Environmental conditions : -20 °C - +50 °C / 1000 m

Locked rotor time (hot / cold) : 28.6 s | 46.3 s

These values are calculated. The final rating plate data will be calculated when the order is placed

The efficiency values and efficiency class according to EuP directive are valid for standard power ratings under standard conditions.

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	70 / 84 dB(A) ^{2) 3)}	79 / 93 dB(A) ^{2) 3)}	External earthing terminal	With (standard)
Moment of inertia	1.7000 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⁾	20000 h	16000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	30 g 30 g 4000 h		Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	670 kg
Regreasing device	With (standard)		Coating (paint finish)	Special paint finish, resistant to salt-laden air C4
Grease nipple	M10x1 DIN 3404 A		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(B) 3 PTC thermistors - for tripping (standard) (2 terminals)
Condensate drainage holes	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	150 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	34 mm - 45 mm
Type of terminal box	TB1 Q01	Cable entry	2xM63x1,5-2xM20x1,5
Contact screw thread	M12	Cable gland	4 plugs

I_A/I_N = locked rotor current / current nominal
 M_A/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

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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>	Link documents
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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	N06	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 50°C, power reduced
D22	Motor without CE character for export outside the EEA (see EU regulation 2019/1781)	N31	Increased air humidity/temperature with 60 to 100 g water per m3 air
D33	KEA Korea Energy Efficiency Label	Q02	Anti-condensation heating for 230 V (2 terminals)
H00	Canopy	R50	Larger terminal box
H70	Second outer earthing	R62	Cast iron auxiliary terminal box (small)
M2F	460 VD for 60 Hz, 50-Hz power		

Additional information:

Space heaters

Technical data: 1-phase, 230 V 109W

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