

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



Motor type : 1CV3280A

SIMOTICS SD - 280 S - IM B3 - 2p

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project

Remarks

Electrical data

Safe Area

U	Δ / Y	f	P	P	I	n	M	η ³⁾			cosφ ³⁾			I _A /I _N	M _A /M _N	M _K /M _N	IE-CL
[V]		[Hz]	[kW]	[hp]	[A]	[1/min]	[Nm]	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)																	
400	Δ	50	65.25	-/-	113.00	2975	209.5	94.8	94.5	93.4	0.88	0.84	0.76	7.8	2.8	3.5	IE3
690	Y	50	65.25	-/-	66.00	2975	209.5	94.8	94.5	93.4	0.88	0.84	0.76	7.8	2.8	3.5	IE3
460	Δ	60	73.08	-/-	110.00	3575	195.2	94.4	94.0	92.6	0.88	0.85	0.78	7.8	2.9	3.5	IE2
460	Δ	60	75.00	-/-	112.00	3578	200.0	94.1	93.9	92.7	0.89	0.87	0.79	7.6	2.7	3.2	IE3
IM B3 / IM 1001		FS 280 S				IP56	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

Environmental conditions : -20 °C - +55 °C / 1,000 m

Locked rotor time (hot / cold) : 30.9 s | 54.7 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	74 / 88 dB(A) ^{2) 3)}	78 / 92 dB(A) ^{2) 3)}	External earthing terminal	Yes (standard)
Moment of inertia	0.7700 kg m ²		Vibration severity grade	A
Bearing DE NDE	6315 C3	6315 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	25 g 25 g	2000 h	Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	510 kg
Regreasing device	Yes (standard)		Coating (paint finish)	Special paint finish C3
Grease nipple	M10x1 DIN 3404 A		Color, paint shade	RAL7030
Type of bearing	Locating bearing DE		Motor protection	(B) 3 PTC thermistors - for tripping (standard) (2 terminals)
Condensate drainage holes	Yes (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	240 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	38 mm - 45 mm
Type of terminal box	TB1 Q01	Cable entry	2xM63x1,5-2xM20x1,5
Contact screw thread	M12	Cable gland	4 plugs

Notes:

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) L10mh 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

responsible dep.	technical reference	created by	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.	Link documents
DI MC LVM		DT Configurator			
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	1LE1603-2DA03-4AB4-Z B02+H22+L51+N07+Q02+R50+R62				
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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	Q02	Anti-condensation heating for 230 V (2 terminals)
H22	IP 56 degree of protection	R50	Larger terminal box
L51	Bearing insulation NDE	R62	Cast iron auxiliary terminal box (small)
N07	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 55°C, power reduced		

Additional information:

Space heaters

Technical data: 1-phase, 230 V 109W

Notes:

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