

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



Motor type : 1CV3286B

SIMOTICS SD - 280 M - IM B3 - 4p

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)																	
460	Δ	60	110.00	-/-	170.00	1788	590.0	95.8	95.7	94.9	0.85	0.81	0.71	9.2	3.4	3.7	IE3
IM B3 / IM 1001		FS 280 M				IP55	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN				KS C IEC60034-2-1			

Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 23.2 s | 37.8 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	73 / 87 dB(A) ^{2) 3)}	81 / 95 dB(A) ^{2) 3)}	External earthing terminal	Yes (standard)
Moment of inertia	1.8000 kg m ²		Vibration severity grade	A
Bearing DE NDE	NU 317	6317 C3	Thermal class	F
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad} ¹⁾ for coupling operation	40000 h	32000 h	Direction of rotation	bidirectional
50 60Hz			Frame material	cast iron
Relubrication interval/quantity DE NDE	30 g 30 g	8000 h	Net weight of the motor (IM B3)	720 kg
Lubricants	Unirex N3		Coating (paint finish)	Standard paint finish C2
Regreasing device	Yes (standard)		Color, paint shade	RAL7030
Grease nipple	M10x1 DIN 3404 A		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
Type of bearing	Locating bearing NDE		Method of cooling	IC411 - self ventilated, surface cooled
Condensate drainage holes	Yes (standard)			

Terminal box

Terminal box position	right	Max. cross-sectional area	120 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	34 mm - 42 mm
Type of terminal box	TB1 N01	Cable entry	2xM63x1,5-2xM20x1,5
Contact screw thread	M10	Cable gland	4 plugs

Notes:

I _A /I _N = locked rotor current / current nominal	1) L10mh according to DIN ISO 281 10/2010	3) Value is valid only for DOL operation with motor design IC411
M _K /M _N = locked rotor torque / torque nominal	2) at rated power / at full load	
M _B /M _N = break down torque / nominal torque		

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents	
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Special design

L22	Bearing design for increased cantilever forces	Q03	Anti-condensation heating 115 V
L51	Bearing insulation NDE	Y58	Non-standard cylindrical shaft extension, DE
M2F	460 VD for 60 Hz, 50-Hz power	Y80	Supplementary rating plate with different data

Additional information:

Space heaters

Technical data: 1-phase, 115 V 109W

Notes:

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