

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



Motor type : 1CV3282B

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 155(F)																	
IM B3 / IM 1001			FS 280 M			IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - + °C / m									Locked rotor time (hot / cold) : 31 s 45.3 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	70 / 84 dB(A) ²⁾	79 / 93 dB(A) ²⁾	External earthing terminal	Yes (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} η_{min} for coupling operation	40000 h	32000 h	Direction of rotation	bidirectional
50 60Hz			Frame material	cast iron
Relubrication interval/quantity DE	30 g 30 g		Net weight of the motor (IM B3)	670 kg
NDE			Coating (paint finish)	Special paint finish for offshore applications C5
Lubricants	Unirex N3		Color, paint shade	RAL7030
Regreasing device	Yes (standard)		Motor protection	(B) 3 PTC thermistors - for tripping (standard) (2 terminals)
Grease nipple	M10x1 DIN 3404 A		Method of cooling	IC411 - self ventilated, surface cooled
Type of bearing	Locating bearing NDE			
Condensate drainage holes	Yes (standard)			

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	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	
SIEMENS	document type datasheet			document status released			
	title 1LE1603-2DB29-0AB4-Z			document number			
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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	M1Y	Non-standard winding:
F01	Mounting a brake	Q02	Anti-condensation heating for 230 V (2 terminals)
F12	Brake supply voltage 400 V AC, 50/60 Hz	R50	Larger terminal box
F76	Metal external fan	S04	Special paint finish for offshore applications C5
G06	Mounting a rotary pulse encoder HOG 10 D 1024 I	Y52	Temperature class 155(F), utilized acc. to 155(F), customer indication of coolant temperature and/or installation altitude
H07	Stainless steel screws and bolts (outside the motor)	Y66	Non-standard colors
L50	Bearing insulation DE	Y99	special motor design

Additional information:

Space heaters

Technical data: 1-phase, 230 V 109W

Brake:

Description:	KFB 100	Current:	A
Voltage:	AC 400 V	Moment of inertia:	kgm ²

Notes:

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