

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



Motor type : 1CV3286B

SIMOTICS SD - 280 M - IM V1 - 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)																	
400	Y	50	110.00	-/-	196.00	1486	710.0	95.4	95.5	95.0	0.85	0.81	0.72	8.3	3.0	3.4	IE3
460	Y	60	127.00	-/-	195.00	1785	680.0	95.0	95.1	94.6	0.86	0.83	0.75	8.1	3.0	3.2	IE2
460	Y	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 V1 / IM 3011		FS 280 M				IP55	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
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	70 / 84 dB(A) ^{2) 3)}	74 / 88 dB(A) ^{2) 3)}	External earthing terminal	Yes (standard)
Moment of inertia	1.8000 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} ¹⁾ for coupling operation 50 60Hz	20000 h	16000 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)	720 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 NDE		Motor protection	(F) 1 temperature sensor KTY84-130 (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	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.	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					
	document type	datasheet			document status		
					released		
	title	1LE1603-2DB60-2GF4			document number		
© Siemens AG 2022				rev.	creation date	language	Page
				929	2022-10-05	en	1/1