

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



Motor type : 1CV2286D

SIMOTICS SD - 280 M - IM B3 - 8p

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

Remarks

Electrical data

Safe Area

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η 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	
400	Δ	50	55.00	-/-	107.00	736	710.0	92.9	93.4	93.0	0.80	0.75	0.65	5.9	2.5	2.5	IE2
690	Y	50	55.00	-/-	62.00	736	710.0	92.9	93.4	93.0	0.80	0.75	0.65	5.9	2.5	2.5	IE2
460	Δ	60	66.00	-/-	110.00	885	710.0	93.0	93.8	93.6	0.81	0.77	0.68	5.6	2.3	2.3	IE2
460	Δ	60	55.00	-/-	94.00	890	590.0	93.0	93.2	92.5	0.79	0.74	0.63	6.5	2.8	2.8	IE2
IM B3 / IM 1001		FS 280 M		550 kg		IP65		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

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

Locked rotor time (hot / cold) : 23.5 s | 38.9 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	70.0 / 81.0 dB(A) ²⁾	72.0 / 83.0 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	1.6000 kg m ²		Vibration severity grade	A
Bearing DE NDE	6317 C3	6317 C3	Insulation	155(F) to 155(F)
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad min} 50 60Hz ¹⁾ for coupling operation	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	30 g	30 g	Frame material	cast iron
Lubricants	Unirex N3		Coating (paint finish)	Special paint finish C3
Regreasing device	Yes (standard)		Color, paint shade	RAL7030
Grease nipple	M10x1 DIN 3404 A		Motor protection	(B) 3 PTC thermistors - for tripping (standard) (2 terminals)
Type of bearing	Locating bearing DE		Method of cooling	IC411 - self ventilated, surface cooled
Condensate drainage holes	Yes (standard)			

Terminal box

Terminal box position	top	Max. cross-sectional area	120.0 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	34.0 mm - 42.0 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
 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. 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.			
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Special design

F76	Metal external fan	N03	Temperature class 155 (F), utilised to 155 (F), with increased cooling medium temperature
H07	Stainless steel screws and bolts (outside the motor)	Q12	Motor protection with PTC thermistors with 2 or 6 embedded temperature sensors for alarm and tripping
H20	IP 65 degree of protection	Q78	2 Pt100 resistance thermometers in 3-wire input for bearing (6 terminals)
L05	Second standard shaft extension	Y56	Paint finish in special RAL colours
L51	Bearing insulation NDE		

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