

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



Motor type : 1CV4282A

SIMOTICS SD - 280 M - IM B3 - 2p

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

Remarks **Safe Area**

Electrical data

-/-

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η ³⁾			cos φ ³⁾			I _A /I _N I _f /I _N	M _A /M _N T _f /T _N	M _K /M _N T _B /T _N	IE-CL	
								4/4	3/4	2/4	4/4	3/4	2/4					
DOL duty (S1) - 155(F) to 130(B)																		
400	Δ	50	90.00	-/-	151.00	2980	290.0	95.8	96.1	95.8	0.90	0.89	0.85	8.5	2.7	3.0	IE4	
690	Y	50	90.00	-/-	87.00	2980	290.0	95.8	96.1	95.8	0.90	0.89	0.85	8.5	2.7	3.0	IE4	
460	Δ	60	90.00	-/-	132.00	3582	240.0	95.4	95.5	95.0	0.90	0.89	0.84	11.0	2.7	3.2	IE4	
460	Δ	60	101.00	-/-	148.00	3580	270.0	95.4	95.6	95.3	0.90	0.90	0.86	9.5	2.4	2.9	IE4	
IM B3 / IM1001			FS 280 M			IP55		UKCA		IEC/EN 60034			IEC, DIN, ISO, VDE, EN					
Environmental conditions : -20 °C - +40 °C / 1000 m										Locked rotor time (hot / cold) : 25.9 s 45.4 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	73 / 87 dB(A) ^{2) 3)}	76 / 90 dB(A) ^{2) 3)}	External earthing terminal	(Standard) Yes	
Moment of inertia	0.8950 kg m ²		Vibration severity grade	Grade A	
Bearing DE NDE	6315 C3 S0	6315 C3 S0	Thermal class	F	
permissible lateral force on (N) (N)	X ₀ : 5200	X _{0.5} : 4700	X _{max} : 4200	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional	
L _{10mh} F _{Rad, min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Frame material	cast iron	
Relubrication interval/quantity DE NDE	25 g 25 g 4000 h		Net weight of the motor	600 kg	
Lubricants	UNIREX N3		Coating (paint finish)	Standard paint finish C2	
Regreasing device	Flat type lubricating nipple		Color, paint shade	RAL7030	
Grease nipple	M10x1 DIN 3404 A		Motor protection	without (Standard)	
Type of bearing	Locating bearing NDE		Method of cooling	IC411 - self ventilated, surface cooled	
Condensate drainage holes	(Standard) Yes				

Terminal box

Terminal box position	box at the top	Max. cross-sectional area	120 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	34 mm - 45 mm
Type of terminal box	TB4N01	Cable entry	2xM63x1,5
Contact screw thread	6xM10	Cable gland	-/-

I_A/I_N = locked rotor current / current nominal
 M_K/M_N = locked rotor torque / torque nominal
 M_B/M_N = break down torque / nominal torque
 1) L_{10mh} 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

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