

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



Motor type : 1CV3280A

SIMOTICS SD - 280 S - IM V1 - 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⁾			cosφ ³⁾			I _A /I _N I _I /I _N	M _A /M _N T _I /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	69.00	-/-	119.00	2975	221.5	94.7	94.6	93.7	0.88	0.85	0.78	7.4	2.6	3.3	IE3
460	Δ	60	77.28	-/-	116.00	3575	206.4	94.5	94.2	92.9	0.88	0.86	0.79	7.4	2.7	3.3	IE2
460	Δ	60	75.00	-/-	112.00	3578	200.0	94.1	93.9	92.7	0.89	0.87	0.79	7.6	2.9	3.2	IE3
IM V1 / IM 3011		FS 280 S			IP55		UKCA	IEC/EN 60034			IEC, DIN, ISO, VDE, EN						

Environmental conditions : -20 °C - +50 °C / 1000 m

Locked rotor time (hot / cold) : 27.9 s | 47.7 s

These values are calculated. The final rating plate data will be calculated when the order is placed

The efficiency values and efficiency class according to EuP directive are valid for standard power ratings under standard conditions.

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	74 / 88 dB(A) ^{2) 3)}	78 / 92 dB(A) ^{2) 3)}	External earthing terminal	With (standard)
Moment of inertia	0.7700 kg m ²		Vibration severity grade	A
Bearing DE NDE	6315 C3	6315 C3	Thermal class	F
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	20000 h	16000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	25 g 25 g 2000 h		Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	510 kg
Regreasing device	With (standard)		Coating (paint finish)	Standard paint finish C2
Grease nipple	M10x1 DIN 3404 A		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(A) without (Standard)
Condensate drainage holes	With (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 - 45 mm
Type of terminal box	TB1 N01	Cable entry	2xM63x1,5-2xM20x1,5
Contact screw thread	M10	Cable gland	4 plugs

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) 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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Special design

D22	Motor without CE character for export outside the EEA (see EU regulation 2019/1781)	N06	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 50°C, power reduced
D33	KEA Korea Energy Efficiency Label	Q02	Anti-condensation heating for 230 V (2 terminals)

Additional information:

Space heaters

Technical data: 1-phase, 230 V 109W

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