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

Motor type : 1CV3280A **SIMOTICS SD - 280 S - 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) 4/4	η 3) 3/4	η 3) 2/4	cosφ 3) 4/4	cosφ 3) 3/4	cosφ 3) 2/4	I_A/I_N I_l/I_N	M_A/M_N T_l/T_N	M_K/M_N T_B/T_N	IE-CL
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	75.00	-/-	128.00	2975	240.0	94.7	94.8	94.1	0.89	0.87	0.80	6.8	2.4	3.0	IE3
690	Y	50	75.00	-/-	74.00	2975	240.0	94.7	94.8	94.1	0.89	0.87	0.80	6.8	2.4	3.0	IE3
460	Δ	60	84.00	-/-	125.00	3575	225.0	94.5	94.4	93.5	0.89	0.87	0.81	6.8	2.5	3.0	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 B3 / IM 1001			FS 280 S			IP55	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

Environmental conditions : -20 °C - +40 °C / 1000 m

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

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 m²		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)	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE | NDE	25 g | 25 g 4000 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 mm²
Material of terminal box	cast iron	Cable diameter from ... to ...	34 mm - 45 mm
Type of terminal box	TB1 N01	Cable entry	2xM63x1,5
Contact screw thread	M10	Cable gland	2 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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