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

Motor type : 1CD3282B **SIMOTICS XP - 280 M - IM B3 - 4p**

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

Remarks

II 2G Ex db eb IIC T4 Gb

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_I/I_N	M_A/M_N T_I/T_N	M_K/M_N T_B/T_N	IE-CL
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	90.00	-/-	157.00	1486	580.0	95.2	95.5	95.4	0.87	0.84	0.76	7.5	2.7	3.0	IE3
690	Y	50	90.00	-/-	91.00	1486	580.0	95.2	95.5	95.4	0.87	0.84	0.76	7.5	2.7	3.0	IE3
460	Δ	60	90.00	-/-	138.00	1788	480.0	95.4	95.4	94.8	0.86	0.83	0.74	8.8	3.3	3.3	IE3
IM B3 / IM 1001			FS 280 M			IP55		IEC/EN 60034									

Environmental conditions : -20 °C - +40 °C / 1000 m | Locked rotor time (hot / cold) : 23.8 s | 42.7 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	73 / 87 dB(A) 2) 3)	80 / 94 dB(A) 2) 3)	Vibration severity grade	A
Moment of inertia	1.7000 kg m²		Thermal class	F
Bearing DE | NDE	6317 C3	6317 C3	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	30 g | 30 g 8000 h		Net weight of the motor	818 kg
Lubricants	Unirex N3		Motor weight incl. options	818 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 DE		Motor protection	(A) without (Standard)
Condensate drainage holes	Without		Method of cooling	IC411 - self ventilated, surface cooled
External earthing terminal	With (standard)			

Terminal box

Terminal box position	top	Max. cross-sectional area	120 mm²
Material of terminal box	cast iron	Cable diameter from ... to ...	34 mm - 42 mm
Type of terminal box	TB1 N21	Cable entry	-/-
Contact screw thread	M10		

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

Responsible department	Technical reference	Created by	Approved by	*Technical data are subject to change! There may be discrepancies between calculated and rating plate values.*	Link documents
IN LVM		SPC	Created automatically		

SIEMENS

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