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

Motor type : 1CD3280A **SIMOTICS XP - 280 S - IM B3 - 2p**

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	75.00	-/-	128.00	2975	240.0	94.7	94.8	94.3	0.89	0.87	0.81	7.3	2.5	3.0	IE3
690	Y	50	75.00	-/-	74.00	2975	240.0	94.7	94.8	94.3	0.89	0.87	0.81	7.3	2.5	3.0	IE3
460	Δ	60	75.00	-/-	112.00	3580	200.0	94.1	93.7	92.4	0.89	0.87	0.81	8.5	2.9	3.3	IE3
IM B3 / IM 1001			FS 280 S			IP55		IEC/EN 60034									

Environmental conditions : -20 °C - +40 °C / 1000 m | Locked rotor time (hot / cold) : 26 s | 44.9 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	76 / 90 dB(A) 2) 3)	79 / 94 dB(A) 2) 3)	
Moment of inertia	0.8160 kg m²		
Bearing DE | NDE	6315 C3	6315 C3	
bearing lifetime			
L_{10mh} $F_{Rad\ min}$ for coupling operation 50|60Hz 1)	40000 h	32000 h	
Relubrication interval/quantity DE | NDE	25 g | 25 g 4000 h		
Lubricants	Unirex N3		
Regreasing device	With (standard)		
Grease nipple	M10x1 DIN 3404 A		
Type of bearing	Locating bearing DE		
Condensate drainage holes	Without		
External earthing terminal	With (standard)		

Vibration severity grade	A
Thermal class	F
Duty type	S1
Direction of rotation	bidirectional
Frame material	cast iron
Net weight of the motor	729 kg
Motor weight incl. options	729 kg
Coating (paint finish)	Standard paint finish C2
Color, paint shade	RAL7030
Motor protection	(A) without (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 - 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

Document type	Document status
Technical data sheet	Released
Document title	**Document number**
1MB1553-2DA03-4AA4	TDS-240716-104704

Restricted	Revision	Creation date	Language	Page
	AA	2024-07-16	en	1/1