

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



Motor type : 1CV1280B

SIMOTICS SD - 280 S - IM B3 - 4p

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

Remarks

## Electrical data

## Safe Area

U [V]	$\Delta / Y$	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	$\eta$ <sup>3)</sup>			$\cos \phi$ <sup>3)</sup>			$I_A/I_N$ $I_I/I_N$	$M_A/M_N$ $T_I/T_N$	$M_K/M_N$ $T_B/T_N$	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
400	$\Delta$	50	75.00	-/-	137.00	1485	480.0	92.7	92.9	92.2	0.85	0.82	0.73	7.0	2.3	2.8	IE1
690	Y	50	75.00	-/-	80.00	1485	480.0	92.7	92.9	92.2	0.85	0.82	0.73	7.0	2.3	2.8	IE1
460	$\Delta$	60	86.00	-/-	135.00	1785	460.0	93.2	93.2	92.4	0.86	0.83	0.76	7.0	2.3	2.8	IE1

IM B3 / IM 1001	FS 280 S	IP55	IEC/EN 60034	IEC, DIN, ISO, VDE, EN
Environmental conditions : -20° C - +40° C / 1000 m			Locked rotor time (hot / cold) : 17.7 s   29.7 s	

## Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	72 / 86 dB(A) <sup>2)</sup>	76 / 90 dB(A) <sup>2)</sup>	External earthing terminal	Yes (standard)
Moment of inertia	1.2000 kg m <sup>2</sup>		Vibration severity grade	A
Bearing DE   NDE	6317 C3	6317 C3	Insulation	155(F) to 130(B)
<b>bearing lifetime</b>			Duty type	S1
$L_{10mh}$ $F_{Rad}$ for coupling operation	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE   NDE	30 g   30 g 8000 h		Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	540 kg
Regreasing device	Yes (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	Yes (standard)		Method of cooling	IC411 - self ventilated, surface cooled

## Terminal box

Terminal box position	top	Cable diameter from ... to ...	34 mm - 42 mm
Material of terminal box	cast iron	Cable entry	2xM63x1,5
Type of terminal box	TB1 N01	Cable gland	2 plugs
Contact screw thread	M10		
Max. cross-sectional area	120 mm <sup>2</sup>		

# CONTROLMAKERS.IR

### Notes:

$I_A/I_N$ = locked rotor current / current nominal	1) L10mh according to DIN ISO 281 10/2010	3) Value is valid only for DOL operation with motor design IC411
$M_A/M_N$ = locked rotor torque / torque nominal	2) at rated power / at full load	
$M_K/M_N$ = break down torque / nominal torque		

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>			
<b>SIEMENS</b>	document type datasheet	document status released		customer			
	title 1LE1502-2DB03-4AA4	document number					
© Siemens AG 2021	rev. 01	creation date 2021-10-02 02:37	language en	Page 1/1			