

# 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]	$\Delta / Y$	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	$\eta^{3)}$			$\cos\phi^{3)}$			$I_A/I_N$ $I_f/I_N$	$M_A/M_N$ $T_f/T_N$	$M_K/M_N$ $T_B/T_N$	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
<b>DOL duty (S1) - 155(F) to 130(B)</b>																	
400	$\Delta$	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	$\Delta$	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 / 1,000 m

Locked rotor time (hot / cold) : 26 s | 44.9 s

## Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	76 / 90 dB(A) <sup>2) 3)</sup>	79 / 94 dB(A) <sup>2) 3)</sup>	Vibration severity grade	A
Moment of inertia	0.8160 kg m <sup>2</sup>		Thermal class	F
Bearing DE   NDE	6315 C3	6315 C3	Duty type	S1
<b>bearing lifetime</b>			Direction of rotation	bidirectional
$L_{10mh}$ , $F_{Rad}$ <sub>min</sub> for coupling operation 50 60Hz	40000 h	32000 h	Frame material	cast iron
Relubrication interval/quantity DE   NDE	25 g   25 g 4000 h		Net weight of the motor	729 kg
Lubricants	Unirex N3		Motor weight incl. options	729 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	(B) 3 PTC thermistors - for tripping (2 terminals)
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 mm <sup>2</sup>
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		

## Notes:

$I_A/I_N$  = 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 dep. IN LVM	technical reference	created by SPC	approved by	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>	<a href="#">Link documents</a> 
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## Special design


Q02 Anti-condensation heating for 230 V (2 terminals)

## Additional information:

### Space heaters

Technical data: 1-phase, 230 V 109W

## Notes:

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