

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



Motor type : 1CV1280B

- 280 S - IM B3 - 4p

Motor Code 17033

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

Remarks

## 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				
220	$\Delta$	50.6	75.00	-/-	250.00	1500	477.0	92.0	-/-	-/-	0.86	-/-	-/-	-/-	-/-	2.7	-/-
380	Y	50.6	75.00	-/-	146.00	1500	477.0	92.0	-/-	-/-	0.86	-/-	-/-	-/-	-/-	2.7	-/-
440	Y	60.6	86.00	-/-	142.00	1800	456.0	92.2	-/-	-/-	0.87	-/-	-/-	-/-	-/-	2.7	-/-

IM B3 / IM 1001	FS 280 S	540 kg	IP55	IEC/EN 60034	IEC, DIN, ISO, VDE, EN	$n_{max}$ 3000 1/min
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Environmental conditions : -20 °C - +40 °C / 1,000 m

These values are calculated. The final rating plate data will be calculated when the order is placed  
The efficiency values and efficiency class according to EuP directive are valid for standard power ratings under standard conditions.

## Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	75 / 90 dB(A) <sup>2)</sup>	76 / 91 dB(A) <sup>2)</sup>	Vibration severity grade	A
Moment of inertia	1.2000 kg m <sup>2</sup>		Insulation	155(F) to 155(F)
Bearing DE   NDE	6317 C3	6317 C3	Duty type	S9
Relubrication interval/quantity DE   NDE	30 g   30 g 8000 h		Direction of rotation	bidirectional
Lubricants	Esso Unirex N3		Frame material	cast iron
Regreasing device	Yes (standard)		Data of anti condensation heating	-/- V, -/- W
Grease nipple	M10x1 DIN 3404 A		Coating (paint finish)	
Type of bearing	Locating bearing NDE		Color, paint shade	
Condensate drainage holes	Yes (standard)		Motor protection	(C) 6 PTC thermistors - for alarm and tripping
External earthing terminal	No		Method of cooling	IC411 - self ventilated, surface cooled

## Converter data

Feeding	SINAMICS with uncontrolled supply	Recommended converter	-/-
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## Terminal box

Terminal box position	top	Max. cross-sectional area	120.0 mm <sup>2</sup>
Material of terminal box	cast iron	Cable diameter from ... to ...	34.0 mm - 42.0 mm
Type of terminal box	TB1 N01	Cable entry	2xM63x1,5-2xM20x1,5
Contact screw thread	M10	Cable gland	4 plugs -/-

**Notes:**  
 $I_A/I_N$  = locked rotor current / current nominal  
 $M_k/M_N$  = locked rotor torque / torque nominal  
 $M_f/M_N$  = break down torque / nominal torque  
 1) L10mh 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. 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>			
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