

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



Motor type : 1CV1182B

SIMOTICS SD - 180 M - IM B5 - 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	18.50	-/-	35.00	1468	120.0	89.3	90.2	90.2	0.85	0.82	0.73	7.3	2.2	3.1	IE1
690	Y	50	18.50	-/-	20.50	1468	120.0	89.3	90.2	90.2	0.85	0.82	0.73	7.3	2.2	3.1	IE1
460	$\Delta$	60	21.30	-/-	34.50	1768	115.0	91.0	91.9	91.8	0.85	0.82	0.74	7.6	2.2	3.2	IE1

IM B5 / IM 3001	FS 180 M	IP55	IEC/EN 60034	IEC, DIN, ISO, VDE, EN
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Environmental conditions : -20 °C - +40 °C / 1000 m

Locked rotor time (hot / cold) : 8.67 s | 14.4 s

## Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	63 / 76 dB(A) <sup>2)</sup>	65 / 79 dB(A) <sup>2)</sup>	Vibration severity grade	A
Moment of inertia	0.1300 kg m <sup>2</sup>		Insulation	155(F) to 130(B)
Bearing DE   NDE	6210 Z C3	6210 Z C3	Duty type	S1
<b>bearing lifetime</b>			Direction of rotation	bidirectional
L <sub>10mh</sub> , F <sub>Rad</sub> min 50 60Hz <sup>1)</sup> for coupling operation	40000 h	32000 h	Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	170 kg
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		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
External earthing terminal	Yes (standard)			

## Terminal box

Terminal box position	top	Max. cross-sectional area	16 mm <sup>2</sup>
Material of terminal box	cast iron	Cable diameter from ... to ...	19 mm - 28 mm
Type of terminal box	TB1 J01	Cable entry	2xM40x1,5
Contact screw thread	M5	Cable gland	2 plugs

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**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) 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	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.
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