

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



Motor type : 1CV3182B

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]	$\eta^{3)}$			$\cos\phi^{3)}$			$I_A/I_N$ $I_I/I_N$	$M_A/M_N$ $T_I/T_N$	$M_K/M_N$ $T_B/T_N$	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
<b>DOL duty (S1) - 155(F) to 130(B)</b>																	
400	$\Delta$	50	18.50	-/-	35.00	1470	120.0	92.6	93.1	93.0	0.82	0.77	0.67	7.2	2.5	3.3	IE3
460	$\Delta$	60	21.30	-/-	34.50	1770	115.0	93.6	94.0	93.8	0.83	0.78	0.69	7.2	2.4	3.2	IE3
460	$\Delta$	60	18.50	25.00	30.50	1775	100.0	93.6	93.7	93.1	0.81	0.75	0.64	7.8	2.7	3.6	MG1
IM B5 / IM 3001		FS 180 M		CC032A		IP55	UKCA	IEC/EN 60034		IEC, EN, UL, CSA, NEMA MG1-12			kVA Code: K				
Environmental conditions : -20 °C - +40 °C / 1,000 m										Locked rotor time (hot / cold) : 28.7 s   41.6 s							

## Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	66 / 73 dB(A) <sup>2) 3)</sup>	68 / 75 dB(A) <sup>2) 3)</sup>	Vibration severity grade	A
Moment of inertia	0.1300 kg m <sup>2</sup>		Thermal class	F
Bearing DE   NDE	6210 2Z C3	6210 2Z C3	Duty type	S1
<b>bearing lifetime</b>			Direction of rotation	bidirectional
$L_{10mh}$ , $F_{Rad min}$ 50 60Hz <sup>1)</sup> for coupling operation	40000 h	32000 h	Frame material	cast iron
Regreasing device	Without		Net weight of the motor (IM B3)	165 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing NDE		Color, paint shade	RAL7030
Condensate drainage holes	With (standard)		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
External earthing terminal	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled

## 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	2xM40x1,5-1xM16x1,5
Contact screw thread	M5	Cable gland	3 plugs

**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	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>	<a href="#">Link documents</a>
	document type datasheet	document status released			document number
	title 1LE1523-1EB23-4FB4	rev. 943	creation date 2023-04-27		
© Siemens AG 2023					