

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



Motor type : 1CV2184B

SIMOTICS SD - 180 L - IM B5 - 4p

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

Remarks

Electrical data

Safe Area

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	$\eta^{3)}$			$\cos\phi^{3)}$			I_A/I_N	M_A/M_N	M_K/M_N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4	I_i/I_N	T_i/T_N	T_B/T_N	
230	Δ	50	19.14	-/-	64.00	1465	124.8	91.9	92.1	91.6	0.81	0.75	0.64	8.4	3.0	4.0	IE2
400	Y	50	19.14	-/-	37.00	1465	124.8	91.9	92.1	91.6	0.81	0.75	0.64	8.4	3.0	4.0	IE2
460	Y	60	22.01	-/-	36.00	1765	119.1	92.7	92.7	92.1	0.82	0.77	0.68	8.6	3.0	3.9	IE2
460	Y	60	22.00	-/-	36.00	1770	119.0	92.4	92.5	91.8	0.83	0.78	0.68	8.4	3.0	3.9	IE2
IM B5 / IM 3001		FS 180 L		170 kg		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

Environmental conditions : -20 °C - +55 °C / 1,000 m

Locked rotor time (hot / cold) : 9.79 s | 18.7 s

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	69.0 / 76.0 dB(A) ²⁾	72.0 / 79.0 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	0.1300 kg m ²		Vibration severity grade	A
Bearing DE NDE	6210 Z C3	6210 Z C3	Insulation	155(F) to 130(B)
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Direction of rotation	bidirectional
Lubricants	Unirex N3		Frame material	cast iron
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

Terminal box

Terminal box position	top	Max. cross-sectional area	16.0 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	19.0 mm - 28.0 mm
Type of terminal box	TB1 J01	Cable entry	2xM40x1,5
Contact screw thread	M5	Cable gland	2 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		Technical data are subject to change! There may be discrepancies between calculated and rating plate values.			
	document type datasheet			document status released		customer		
	title 1LE1501-1EB42-2FA4-Z B02+N07+N30			document number				
© Siemens AG 2021				rev. 01	creation date 2021-04-22 13:18	language en	Page 1/2	

SIMOTICS SD - 180 L - IM B5 - 4p

B02	Acceptance test certificate 3.1 acc. to EN 10204	N30	Increased air humidity/temperature with 30 to 60 g water per m3 air
N07	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 55°C, power reduced		

--	--

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.			
	document type datasheet			document status released		customer	
	title 1LE1501-1EB42-2FA4-Z			document number			
© Siemens AG 2021	B02+N07+N30			rev. 01	creation date 2021-04-22 13:18	language en	Page 2/2