

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



Motor type : 1CV3164C

SIMOTICS SD - 160 L - IM B3 - 6p

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				
230	$\Delta$	60	12.60	-/-	44.00	1180	102.0	90.2	90.5	89.5	0.80	0.75	0.65	7.1	3.0	2.8	IE2
400	Y	60	12.60	-/-	25.00	1180	102.0	90.2	90.5	89.5	0.80	0.75	0.65	7.1	3.0	2.8	IE2
230	$\Delta$	60	11.00	-/-	39.00	1185	89.0	90.2	90.1	88.5	0.78	0.72	0.61	8.0	3.4	3.2	IE2
400	Y	60	11.00	-/-	22.50	1185	89.0	90.2	90.1	88.5	0.78	0.72	0.61	8.0	3.4	3.2	IE2

IM B3 / IM 1001	FS 160 L	138 kg	IP55	IEC/EN 60034	IEC, DIN, ISO, VDE, EN
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Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 18 s | 25.6 s

## Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	67.0 / 79.0 dB(A) <sup>2)</sup>	70.0 / 82.0 dB(A) <sup>2)</sup>	External earthing terminal	No
Moment of inertia	0.1640 kg m <sup>2</sup>		Vibration severity grade	A
Bearing DE   NDE	6209 2Z C3	6209 2Z C3	Insulation	155(F) to 130(B)
<b>bearing lifetime</b>			Duty type	S1
L <sub>10mh</sub> F <sub>Rad min</sub> for coupling operation 50 60Hz <sup>1)</sup>	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 <sup>2</sup>
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	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>			
<b>SIEMENS</b>	document type datasheet	document status released		customer			
	title 1LE1503-1DC41-8AA4	document number					
© Siemens AG 2021	rev. 01	creation date 2021-04-22 09:47	language en	Page 1/1			