

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



Motor type : 1CV4104B

SIMOTICS SD - 100 L - IM B3 - 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]	$\eta^{3)}$			$\cos\phi^{3)}$			$I_A/I_N$ $I_f/I_N$	$M_A/M_N$ $T_f/T_N$	$M_K/M_N$ $T_B/T_N$	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
<b>DOL duty (S1) - 155(F) to 130(B)</b>																	
400	$\Delta$	50	2.20	-/-	4.50	1465	14.3	89.5	89.6	88.3	0.79	0.73	0.61	8.5	3.3	4.7	IE4
690	Y	50	2.20	-/-	2.60	1465	14.3	89.5	89.6	88.3	0.79	0.73	0.61	8.5	3.3	4.7	IE4
460	$\Delta$	60	2.55	-/-	4.40	1765	13.8	91.0	91.0	89.7	0.80	0.74	0.63	8.9	3.3	4.7	IE4
460	$\Delta$	60	2.20	-/-	3.90	1770	11.9	91.0	90.6	88.7	0.77	0.70	0.58	9.9	3.9	5.5	IE4
IM B3 / IM 1001		FS 100 L		IP55		UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1,000 m										Locked rotor time (hot / cold) : 21.8 s   26 s							

## Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	63 / 75 dB(A) <sup>2) 3)</sup>	66 / 78 dB(A) <sup>2) 3)</sup>	Vibration severity grade	A
Moment of inertia	0.0140 kg m <sup>2</sup>		Thermal class	F
Bearing DE   NDE	6206 2Z C3	6206 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)	41 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Preloaded bearing DE		Color, paint shade	RAL7030
Condensate drainage holes	With (standard)		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
External earthing terminal	Without		Method of cooling	IC411 - self ventilated, surface cooled

## Terminal box

Terminal box position	left	Max. cross-sectional area	4 mm <sup>2</sup>
Material of terminal box	cast iron	Cable diameter from ... to ...	11 mm - 21 mm
Type of terminal box	TB1 F01	Cable entry	2xM32x1,5-1xM16x1,5
Contact screw thread	M4	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			
	title 1LE1504-1AB43-4AB6	document number			
© Siemens AG 2023	rev. 943	creation date 2023-04-18	language en		