

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



Motor type : 1CV3105B

SIMOTICS SD - 100 L - IM B35 - 4p

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

Remarks

## Safe Area

### Electrical data

-/-

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>			$I_A/I_N$ $I_f/I_N$	$M_A/M_N$ $T_f/T_N$	$M_k/M_N$ $T_B/T_N$	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
<b>DOL duty (S1) - 155(F) to 130(B)</b>																	
500	$\Delta$	50	3.00	-/-	4.95	1450	19.8	87.7	88.1	87.1	0.80	0.73	0.60	8.0	3.1	3.8	IE3
575	$\Delta$	60	3.45	-/-	4.90	1750	18.8	87.5	88.0	87.2	0.81	0.74	0.62	9.0	3.1	4.1	IE2
575	$\Delta$	60	3.00	4.00	4.30	1760	16.3	89.5	89.4	88.0	0.78	0.70	0.58	9.9	3.5	4.7	MG1
IM B35 / IM 2001		FS 100 L		CC032A		IP55	UKCA	IEC/EN 60034		IEC, EN, UL, CSA, NEMA MG1-12-12			kVA Code: N				

Environmental conditions : -20 °C - +40 °C / 1000 m

Locked rotor time (hot / cold) : 12.8 s | 17.6 s

### Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	67 / 75 dB(A) <sup>2) 3)</sup>	70 / 78 dB(A) <sup>2) 3)</sup>	Vibration severity grade	A
Moment of inertia	0.0100 kg m <sup>2</sup>		Thermal class	F
Bearing DE   NDE	6206 2Z C3	6206 2Z C3 INS	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)	40 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Preloaded bearing DE		Color, paint shade	RAL7030
Bearing insulation DE / Bearing insulation NDE	Yes (non-drive end)		Motor protection	(C) 6 PTC thermistors - for alarm and tripping (4 terminals)
Condensate drainage holes	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled
External earthing terminal	Without			

### Terminal box

Terminal box position	top	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 J01	Cable entry	2xM32x1,5-1xM16x1,5
Contact screw thread	M4	Cable gland	2 glands, 1 plug

### Notes:

$I_A/I_N$  = locked rotor current / current nominal  
 $M_k/M_N$  = locked rotor torque / torque nominal  
 $M_f/M_N$  = break down torque / nominal torque

<sup>1)</sup>  $L_{10mh}$  according to DIN ISO 281 10/2010  
<sup>2)</sup> at rated power / at full load

<sup>3)</sup> Value is valid only for DOL operation with motor design IC411

responsible dep. IN LVM	technical reference	created by SPC	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>
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## Special design

L51	Bearing insulation NDE	R50	Larger terminal box
Q36	2 Pt1000 resistance thermometers (4 terminals)	R62	Cast iron auxiliary terminal box (small)
R18	Cable gland metal, max. number		

Notes:

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