

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



Motor type : 1CV1105B

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]	$\eta^{3)}$			$\cos\phi^{3)}$			$I_A/I_N$	$M_A/M_N$	$M_K/M_N$	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4	$I_f/I_N$	$T_f/T_N$	$T_B/T_N$	
<b>DOL duty (S1) - 155(F) to 130(B)</b>																	
500	$\Delta$	50	3.00	-/-	5.00	1425	20.0	81.5	82.6	81.5	0.85	0.78	0.65	5.4	2.4	2.6	IE1
575	$\Delta$	60	3.45	-/-	4.75	1725	19.1	85.0	85.8	84.8	0.86	0.80	0.68	6.0	2.2	2.3	IE1
IM B35 / IM 2001		FS 100 L		IP55		UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1000 m										Locked rotor time (hot / cold) : 9.5 s   16.5 s							

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	60 / 72 dB(A) <sup>2) 3)</sup>	62 / 74 dB(A) <sup>2) 3)</sup>	Vibration severity grade	A
Moment of inertia	0.0078 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
$L_{10min}$ $F_{Rad, min}$ for coupling operation 50 60Hz <sup>1)</sup>	40000 h	32000 h	Frame material	cast iron
Regreasing device	Without		Net weight of the motor (IM B3)	33 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	(A) without (Standard)
External earthing terminal	Without		Method of cooling	IC411 - self ventilated, surface cooled

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 F01	Cable entry	2xM32x1,5
Contact screw thread	M4	Cable gland	2 plugs

$I_A/I_N$  = locked rotor current / current nominal      <sup>1)</sup>  $L_{10min}$  according to DIN ISO 281 10/2010      <sup>3)</sup> Value is valid only for DOL operation with motor design IC411  
 $M_A/M_N$  = locked rotor torque / torque nominal      <sup>2)</sup> at rated power / at full load  
 $M_K/M_N$  = break down torque / nominal torque

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## Special design

D22 Motor without CE character for export outside the EEA (see EU regulation 2019/1781)

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