

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



Motor type : 1CV3252B

SIMOTICS SD - 250 M - IM V5 - 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]	$\eta^{3)}$			$\cos\phi^{3)}$			$I_A/I_N$ $I_f/I_N$	$M_A/M_N$ $T_f/T_N$	$M_K/M_N$ $T_B/T_N$	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
<b>DOL duty (S1) - 180(H) to 180(H)</b>																	
400	$\Delta$	50	55.00	-/-	96.00	1482	355.0	94.6	95.1	95.0	0.87	0.84	0.76	6.8	2.5	2.9	IE3
460	$\Delta$	60	63.00	-/-	97.00	1782	340.0	94.1	94.5	94.4	0.87	0.84	0.77	6.7	2.4	2.8	IE2
460	$\Delta$	60	55.00	-/-	84.00	1786	295.0	95.4	95.6	95.1	0.86	0.83	0.74	7.6	2.8	3.2	IE3
IM V5 / IM 1011		FS 250 M			IP55	UKCA	IEC/EN 60034	IEC, DIN, ISO, VDE, EN									

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

Locked rotor time (hot / cold) : 34.9 s | 55 s

### Mechanical data



Sound level (SPL / SWL) at 50Hz 60Hz	66 / 79 dB(A) <sup>2) 3)</sup>	68 / 82 dB(A) <sup>2) 3)</sup>	Vibration severity grade	A
Moment of inertia	0.8500 kg m <sup>2</sup>		Thermal class	H
Bearing DE   NDE	6215 Z C3	6215 Z 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	20000 h	16000 h	Frame material	cast iron
Regreasing device	Without		Net weight of the motor (IM B3)	420 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating 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	IC416 - separately ventilated, surface cooled
External earthing terminal	With (standard)			

### Terminal box

Terminal box position	right	Max. cross-sectional area	120 mm <sup>2</sup>
Material of terminal box	cast iron	Cable diameter from ... to ...	34 mm - 42 mm
Type of terminal box	TB1 N01	Cable entry	2xM63x1,5-2xM20x1,5
Contact screw thread	M10	Cable gland	4 plugs

### 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  
 1)  $L_{10mh}$  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. 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

B02	Acceptance test certificate 3.1 acc. to EN 10204	H00	Canopy
F70	Mounting of separately driven fan	L51	Bearing insulation NDE
G04	Mounted rotary pulse encoder LL 861 900 220	N11	Temperature class 180(H), and coolant temperature max. 60°C

### Notes:

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