

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

Data sheet for three-phase Squirrel-Cage-Motors

Motor type / Motor type : 1CV4252A

SIMOTICS SD - 250 M - IM V1 - 2p

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

Remarks / Remarks

Safe Area

Electrical data / 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) / DOL duty (S1) - 155(F) to 130(B)</b>																	
400	$\Delta$	50	55.00	-/-	95.00	2978	176.0	95.3	95.2	94.5	0.88	0.85	0.77	7.5	2.5	3.2	IE4
690	Y	50	55.00	-/-	55.00	2978	176.0	95.3	95.2	94.5	0.88	0.85	0.77	7.5	2.5	3.2	IE4
460	$\Delta$	60	62.00	-/-	94.00	3578	165.0	94.5	94.3	93.4	0.88	0.86	0.78	7.7	2.5	3.2	IE4
460	$\Delta$	60	55.00	-/-	83.00	3580	147.0	94.5	94.1	92.9	0.88	0.85	0.76	8.7	2.8	3.5	IE4
IM V1 / IM 3011		FS 250 M		IP55		UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

Environmental conditions / Environmental conditions : -20 °C - +40 °C / 1000 m Locked rotor time (hot / cold) / Locked rotor time (hot / cold) : 46.1 s | 62.4 s

Mechanical data / Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz Sound level (SPL / SWL) at 50Hz 60Hz	72   86 dB(A) <sup>2) 3)</sup>	77   90 dB(A) <sup>2) 3)</sup>	External earthing terminal External earthing terminal	With (standard) With (standard)
Moment of inertia Moment of inertia	0.4800 kg m <sup>2</sup>		Vibration severity grade Vibration severity grade	A A
Bearing DE   NDE Bearing DE   NDE	6315 C3	6315 C3	Thermal class Thermal class	F F
bearing lifetime / bearing lifetime			Duty type Duty type	S1
$L_{10mh} F_{Rad min}$ for coupling operation 50 60Hz <sup>1)</sup>	20000 h	16000 h	Direction of rotation Direction of rotation	bidirectional bidirectional
$L_{10mh} F_{Rad min}$ for coupling operation 50 60Hz <sup>1)</sup>			Frame material Frame material	cast iron cast iron
Relubrication interval/quantity DE   NDE	25 g   25 g 4000 h		Net weight of the motor (IM B3) Net weight of the motor (IM B3)	430 kg
Lubricants Lubricants	Unirex N3		Coating (paint finish) Coating (paint finish)	Special paint finish C3 Special paint finish C3
Regreasing device Regreasing device	With (standard) With (standard)		Color, paint shade Color, paint shade	RAL7030
Grease nipple Grease nipple	M10x1 DIN 3404 A		Motor protection Motor protection	(B) 3 PTC thermistors - for tripping (standard) (2 terminals) (B) 3 PTC thermistors - for tripping (standard) (2 terminals)
Type of bearing Type of bearing	Locating bearing DE Locating bearing DE		Method of cooling Method of cooling	IC411 - self ventilated, surface cooled IC411 - self ventilated, surface cooled
Condensate drainage holes Condensate drainage holes	With (standard) With (standard)			

Terminal box / Terminal box

Terminal box position Terminal box position	top	Max. cross-sectional area Max. cross-sectional area	240 mm <sup>2</sup>
Material of terminal box Material of terminal box	cast iron	Cable diameter from ... to ... Cable diameter from ... to ...	38 mm - 45 mm
Type of terminal box Type of terminal box	TB1 Q01	Cable entry Cable entry	2xM63x1,5-2xM20x1,5
Contact screw thread Contact screw thread	M12	Cable gland Cable gland	4 plugs 4 plugs

$I_A/I_N$  = locked rotor current / current nominal <sup>1)</sup>  $L_{10mh}$  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

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Responsible department IN LVM	Technical reference	Created by SPC	Approved by Created automatically	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.	<a href="#">Link documents</a>
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## Special design / Special design

H00	Canopy Canopy	R50	Larger terminal box Larger terminal box
L20	Locating bearing, DE Locating bearing, DE		

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