

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



Motor type : 1CV1252A

SIMOTICS SD - 250 M - IM B3 - 2p

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]	$\eta$ <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>																	
380	$\Delta$	50	55.00	-/-	103.00	2970	177.0	92.1	92.1	91.2	0.88	0.86	0.79	6.7	2.1	3.0	IE1
660	Y	50	55.00	-/-	59.00	2970	177.0	92.1	92.1	91.2	0.88	0.86	0.79	6.7	2.1	3.0	IE1
440	$\Delta$	60	62.00	-/-	99.00	3570	166.0	92.4	92.2	91.0	0.89	0.87	0.81	6.7	2.0	2.9	IE1
IM B3 / IM 1001		FS 250 M		IP55		UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1,000 m										Locked rotor time (hot / cold) : 16.8 s   30.9 s							

## Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	76 / 90 dB(A) <sup>2) 3)</sup>	81 / 94 dB(A) <sup>2) 3)</sup>	Vibration severity grade	A
Moment of inertia	0.4000 kg m <sup>2</sup>		Thermal class	F
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	40000 h	32000 h	Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	360 kg
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
Condensate drainage holes	Yes (standard)		Method of cooling	IC411 - self ventilated, surface cooled
External earthing terminal	Yes (standard)			

## Terminal box

Terminal box position	top	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  
 $M_A/M_N$  = 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>
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