

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



Motor type : 1CV2222C

SIMOTICS SD - 225 M - IM B3 - 6p

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>			$I_A/I_N$ $I_i/I_N$	$M_A/M_N$ $T_i/T_N$	$M_k/M_N$ $T_B/T_N$	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
380	$\Delta$	50	30.00	-/-	60.00	980	290.0	91.7	92.5	92.3	0.83	0.79	0.70	5.6	2.5	2.7	IE2
660	Y	50	30.00	-/-	34.50	980	290.0	91.7	92.5	92.3	0.83	0.79	0.70	5.6	2.5	2.7	IE2
440	$\Delta$	60	36.00	-/-	61.00	1175	295.0	91.7	92.5	92.5	0.84	0.81	0.73	5.7	2.3	2.5	IE1
440	$\Delta$	60	30.00	-/-	51.00	1182	240.0	93.0	93.3	92.6	0.83	0.79	0.69	7.0	2.9	3.1	IE2

IM B3 / IM 1001	FS 225 M	300 kg	IP55	IEC/EN 60034	IEC, DIN, ISO, VDE, EN
Environmental conditions : -20 °C - +40 °C / 1,000 m				Locked rotor time (hot / cold) : 25.7 s   40.7 s	

## Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	65.0 / 78.0 dB(A) <sup>2)</sup>	66.0 / 79.0 dB(A) <sup>2)</sup>	External earthing terminal	Yes (standard)
Moment of inertia	0.5800 kg m <sup>2</sup>		Vibration severity grade	A
Bearing DE   NDE	6213 Z C3	6213 Z C3	Insulation	155(F) to 130(B)
<b>bearing lifetime</b>			Duty type	S1
L <sub>10mh</sub> F <sub>Rad min</sub> for coupling operation 50 60Hz <sup>1)</sup>	40000 h	32000 h	Direction of rotation	bidirectional
Lubricants	Unirex N3		Frame material	cast iron
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(A) without (Standard)
Condensate drainage holes	Yes (standard)		Method of cooling	IC411 - self ventilated, surface cooled

## Terminal box

Terminal box position	top	Max. cross-sectional area	35.0 mm <sup>2</sup>
Material of terminal box	cast iron	Cable diameter from ... to ...	27.0 mm - 35.0 mm
Type of terminal box	TB1 L01	Cable entry	2xM50x1,5
Contact screw thread	M8	Cable gland	2 plugs

**Notes:**  
 $I_A/I_N$  = locked rotor current / current nominal  
 $M_k/M_N$  = 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>			
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