

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



Motor type : 1CV3222A

SIMOTICS SD - 225 M - IM B3 - 2p

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

Remarks

Safe Area

## Electrical data

-/-

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η <sup>3)</sup>			cosφ <sup>3)</sup>			I <sub>A</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub>	M <sub>K</sub> /M <sub>N</sub>	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4	I <sub>I</sub> /I <sub>N</sub>	T <sub>I</sub> /T <sub>N</sub>	T <sub>B</sub> /T <sub>N</sub>	
<b>DOL duty (S1) - 155(F) to 130(B)</b>																	
400	Δ	50	45.00	-/-	78.00	2960	145.0	94.0	94.5	94.4	0.89	0.87	0.80	6.9	2.4	3.1	IE3
690	Y	50	45.00	-/-	45.00	2960	145.0	94.0	94.5	94.4	0.89	0.87	0.80	6.9	2.4	3.1	IE3
460	Δ	60	51.00	-/-	77.00	3560	137.0	93.6	93.9	93.6	0.89	0.87	0.81	6.8	2.4	3.0	IE3
460	Δ	60	45.00	-/-	69.00	3570	120.0	93.6	93.7	93.1	0.88	0.85	0.78	7.6	2.7	3.3	IE3
IM B3 / IM 1001		FS 225 M		IP55		UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1000 m										Locked rotor time (hot / cold) : 19.3 s   33.3 s							

## Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	73 / 87 dB(A) <sup>2) 3)</sup>	75 / 89 dB(A) <sup>2) 3)</sup>	Vibration severity grade	A
Moment of inertia	0.2600 kg m <sup>2</sup>		Thermal class	F
Bearing DE   NDE	6213 Z C3	6213 Z C3	Duty type	S1
<b>bearing lifetime</b>			Direction of rotation	bidirectional
L <sub>10mh</sub> F <sub>Rad min</sub> 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)	315 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing NDE		Color, paint shade	RAL7030
Condensate drainage holes	With (standard)		Motor protection	(F) 1 temperature sensor KTY84-130 (2 terminals)
External earthing terminal	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled

## Terminal box

Terminal box position	top	Max. cross-sectional area	35 mm <sup>2</sup>
Material of terminal box	cast iron	Cable diameter from ... to ...	27 mm - 35 mm
Type of terminal box	TB1 L01	Cable entry	2xM50x1,5-2xM20x1,5
Contact screw thread	M8	Cable gland	4 plugs

I<sub>A</sub>/I<sub>N</sub> = locked rotor current / current nominal  
 M<sub>A</sub>/M<sub>N</sub> = locked rotor torque / torque nominal  
 M<sub>K</sub>/M<sub>N</sub> = break down torque / nominal torque  
 1) L<sub>10mh</sub> 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

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