

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



Motor type : 1CV1252B

SIMOTICS SD - 250 M - IM B3 - 4p

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

Remarks

Safe Area

Electrical data -/-

U	Δ / Y	f	P	P	I	n	M	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
[V]		[Hz]	[kW]	[hp]	[A]	[1/min]	[Nm]	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>	
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	55.00	-/-	101.00	1475	355.0	92.1	92.5	92.1	0.85	0.82	0.74	6.1	2.4	2.6	IE1
690	Y	50	55.00	-/-	59.00	1475	355.0	92.1	92.5	92.1	0.85	0.82	0.74	6.1	2.4	2.6	IE1
460	Δ	60	63.00	-/-	100.00	1775	340.0	93.0	93.3	92.7	0.85	0.83	0.76	6.1	2.5	2.6	IE1
IM B3 / IM 1001		FS 250 M				IP55	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 17.6 s   31.7 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	70 / 81 dB(A) <sup>2) 3)</sup>	72 / 85 dB(A) <sup>2) 3)</sup>	Vibration severity grade	A
Moment of inertia	0.6900 kg m <sup>2</sup>		Thermal class	F
Bearing DE   NDE	6215 Z C3	6215 Z C3	Duty type	S1
bearing lifetime			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)	360 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	(A) without (Standard)
External earthing terminal	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled

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
Contact screw thread	M10	Cable gland	2 plugs

I<sub>A</sub>/I<sub>N</sub> = locked rotor current / current nominal  
M<sub>K</sub>/M<sub>N</sub> = locked rotor torque / torque nominal  
M<sub>B</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 I at full load

3) Value is valid only for DOL operation with motor design IC411

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