

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



Motor type : 1CV3222B

INNOMOTICS SD - 225 M - IM V1 - 4p

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

Remarks	Safe Area
	-/-

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	45.00	-/-	80.00	1478	290.0	94.2	94.9	95.0	0.86	0.83	0.75	6.6	2.6	2.6	IE3
690	Y	50	45.00	-/-	46.50	1478	290.0	94.2	94.9	95.0	0.86	0.83	0.75	6.6	2.6	2.6	IE3
460	Δ	60	52.00	-/-	81.00	1778	280.0	94.1	94.7	94.8	0.86	0.84	0.77	6.8	2.6	2.6	IE2
460	Δ	60	45.00	-/-	70.00	1782	240.0	95.0	95.3	95.1	0.85	0.81	0.73	7.7	3.0	3.0	IE3
IM V1 / IM 3011		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) : 33.7 s   53.2 s								

Mechanical data																	
Sound level (SPL / SWL) at 50Hz 60Hz			66 / 79 dB(A) <sup>2) 3)</sup>			67 / 81 dB(A) <sup>2) 3)</sup>			Vibration severity grade			A					
Moment of inertia			0.5200 kg m <sup>2</sup>						Thermal class			F					
Bearing DE   NDE			6213 Z C3			6213 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>			20000 h			16000 h			Frame material			cast iron					
Regreasing device			Without						Net weight of the motor (IM B3)			340 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			(B) 3 PTC thermistors - for tripping (2 terminals)					
External earthing terminal			With (standard)						Method of cooling			IC411 - self ventilated, surface cooled					

Terminal box			
Terminal box position	top	Cable diameter from ... to ...	27 mm - 35 mm
Material of terminal box	cast iron	Cable entry	2xM50x1,5-2xM20x1,5
Type of terminal box	TB1 L01	Cable gland	4 plugs
Contact screw thread	M8	Cable length	
Max. cross-sectional area	35 mm²		

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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