

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



Motor type : 1CV4252B INNOMOTICS SD - 250 M - IM B5 - 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 ³⁾			cosφ ³⁾			I _A /I _N	M _A /M _N	M _K /M _N	IE-CL
[V]		[Hz]	[kW]	[hp]	[A]	[1/min]	[Nm]	4/4	3/4	2/4	4/4	3/4	2/4	I _I /I _N	T _I /T _N	T _B /T _N	
DOL duty (S1) - 155(F) to 130(B)																	
380	Δ	50	55.00	-/-	102.00	1488	355.0	95.7	96.0	95.8	0.86	0.82	0.74	8.4	2.5	3.0	IE4
660	Y	50	55.00	-/-	58.00	1488	355.0	95.7	96.0	95.8	0.86	0.82	0.74	8.4	2.5	3.0	IE4
440	Δ	60	55.00	-/-	90.00	1790	295.0	95.8	95.8	95.3	0.84	0.80	0.70	9.2	3.1	3.5	IE4
440	Δ	60	63.00	-/-	100.00	1787	335.0	95.8	96.0	95.8	0.86	0.83	0.75	8.4	2.7	3.0	IE4
IM B5 / IM3001		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) : 26.6 s 41.5 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	62 / 76 dB(A) ^{2) 3)}	65 / 79 dB(A) ^{2) 3)}	External earthing terminal	(Standard) Yes
Moment of inertia	1.3300 kg m ²		Vibration severity grade	Grade A
Bearing DE NDE	6214 ZC3	6214 ZC3	Thermal class	F
permissible lateral force on (N)	X ₀ : 4000	X _{0.5} : 3600	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L _{10mh} F _{Rad, min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Frame material	cast iron
Lubricants	UNIREX N3		Net weight of the motor	498 kg
Regreasing device	-/-		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	3 PTC thermistors - for tripping (2 terminals)
Condensate drainage holes	(Standard) Yes		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	box at the top	Max. cross-sectional area	120 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	34 mm - 45 mm
Type of terminal box	TB4N01	Cable entry	2xM63x1,5 - 2xM20x1,5
Contact screw thread	6xM10	Cable gland	-/-

I_A/I_N = locked rotor current / current nominal
M_K/M_N = locked rotor torque / torque nominal
M_B/M_N = break down torque / nominal torque

1) L_{10mh} 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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