

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



Motor type : 1CV4252B

INNOMOTICS SD - 250 M - IM B3 - 4p

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 ³⁾			cos φ ³⁾			I _A /I _N I _f /I _N	M _A /M _N T _f /T _N	M _K /M _N T _B /T _N	IE-CL	
								4/4	3/4	2/4	4/4	3/4	2/4					
DOL duty (S1) - 155(F) to 130(B)																		
220	Δ	50	55.00	-/-	175.00	1488	355.0	95.7	96.0	95.8	0.86	0.82	0.74	8.4	2.5	3.0	IE4	
380	Y	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	
440	Y	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 B3 / IM1001			FS 250 M			IP54		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) (N)	X ₀ : 4000	X _{0.5} : 3600	X _{max} : 3250	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	488 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_A/M_N = locked rotor torque / torque nominal
M_K/M_N = break down torque / nominal torque

¹⁾ L_{10mh} 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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Responsible department IN LVM	Technical reference	Created by SPC	Approved by Created automatically	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>	Link documents
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Special design

F01	Mounting of holding brake	H21	IP 54 degree of protection
F11	Brake supply voltage, 230 V AC, 50/60 Hz		

Additional information:

Brake:

Description:	KFB 63	Current:	1.53 A
Voltage:	AC 230 V	Moment of inertia:	0.017500 kgm ²

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