

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



Motor type : 1CV3164B

INNOMOTICS SD - 160 L - IM B3 - 4p

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

Remarks

Electrical data														Safe Area				
U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η ³⁾			cosφ ³⁾			I _A /I _N	M _A /M _N T _I /T _N	M _K /M _N T _B /T _N	IE-CL	
DOL duty (S1) - 155(F) to 130(B)																		
400	Δ	50	15.00	-/-	28.50	1465	98.0	92.1	92.7	92.0	0.83	0.78	0.67	7.9	2.8	3.4	IE3	
690	Y	50	15.00	-/-	16.40	1465	98.0	92.1	92.7	92.0	0.83	0.78	0.67	7.9	2.8	3.4	IE3	
460	Δ	60	17.30	-/-	28.50	1765	94.0	92.4	92.5	92.0	0.83	0.79	0.69	7.9	2.7	3.3	IE2	
460	Δ	60	15.00	-/-	25.00	1775	81.0	93.0	92.9	92.1	0.81	0.75	0.64	8.9	3.1	3.8	IE3	
IM B3 / IM 1001		FS 160 L		IP55		UKCA		IEC/EN 60034			IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 19.30 s 26.20 s									

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	58.0 / 66.0 dB(A) 2) 3)	66.0 / 74.0 dB(A) 2) 3)	External earthing terminal	Without
Moment of inertia	0.0890 kg m²		Vibration severity grade	A
Bearing DE NDE	6309 Z C3	6309 Z C3	Thermal class	F
Bearing lifetime			Duty type	S1
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	10.0 g 10.0 g 8000 h		Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	129 kg
Regreasing device	With		Coating (paint finish)	Special paint finish C3
Grease nipple	M8x1 DIN 71412		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(B) 3 PTC thermistors - for tripping (standard) (2 terminals)
Condensate drainage holes	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled
			Carbon footprint (without options)	555kg

Terminal box

Terminal box position	top	Main cable entry	2xM40x1.5
Material of terminal box	cast iron	Main cable gland	2 plugs
Type of terminal box	TB1 J01	Auxiliary cable entry	1xM16x1.5
Contact screw thread	6xM5	Auxiliary cable gland	1 plug
Max. cross-sectional area	16.0 mm²		

Implicit options

F74	Sheet steel fan cowl	M11	Stainless steel rating plate
L23	Regreasing system	S02	Special paint finish C3

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 28110/2010
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 LV	Technical reference	Created by IPC	Approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents	
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