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) 4/4	η 3) 3/4	η 3) 2/4	cosφ 3) 4/4	cosφ 3) 3/4	cosφ 3) 2/4	I_A/I_N I_I/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 I 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)
Moment of inertia	0.0890 kg m²	
Bearing DE I NDE	6309 Z C3	6309 Z C3
Bearing lifetime		
L_{10mh} $F_{Rad\ min}$ for coupling operation 50|60Hz 1)	40000 h	32000 h
Relubrication interval/quantity DE I NDE	10.0 g I 10.0 g 8000 h	
Lubricants	Unirex N3	
Regreasing device	With	
Grease nipple	M8x1 DIN 71412	
Type of bearing	Locating bearing NDE	
Condensate drainage holes	With (standard)	

External earthing terminal	Without
Vibration severity grade	A
Thermal class	F
Duty type	S1
Direction of rotation	bidirectional
Frame material	cast iron
Net weight of the motor (IM B3)	129 kg
Coating (paint finish)	Special paint finish C3
Color, paint shade	RAL7030
Motor protection	(B) 3 PTC thermistors - for tripping (standard) (2 terminals)
Method of cooling	IC411 - self ventilated, surface cooled
Carbon footprint (without options)	555kg

Terminal box

Terminal box position	top
Material of terminal box	cast iron
Type of terminal box	TB1 J01
Contact screw thread	6xM5
Max. cross-sectional area	16.0 mm²

Main cable entry	2xM40x1.5
Main cable gland	2 plugs
Auxiliary cable entry	1xM16x1.5
Auxiliary cable gland	1 plug

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 281 10/2010
2) at rated power / at full load

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

Responsible department	Technical reference	Created by	Approved by	*Technical data are subject to change! There may be discrepancies between calculated and rating plate values.*	Link documents
IN LV		IPC			

INNOMOTICS

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