

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



Motor type : 1CD3162A INNOMOTICS XP - 160 M - IM V1 - 2p

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

Remarks II 2G Ex db eb IIC T4 Gb

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)																	
400	Δ	50	9.60	-/-	17.80	2960	31.0	91.3	90.9	89.1	0.85	0.81	0.72	8.7	2.9	4.4	IE3
690	Y	50	9.60	-/-	10.30	2960	31.0	91.3	90.9	89.1	0.85	0.81	0.72	8.7	2.9	4.4	IE3
460	Δ	60	9.60	-/-	15.50	3565	25.7	90.7	89.6	86.2	0.86	0.81	0.72	9.8	3.2	4.9	IE3
IM V1 / IM 3011			FS 160 M			IP55		IEC/EN 60034									
Environmental conditions : -20 °C - +55 °C / 1000 m									Locked rotor time (hot / cold) : 25.5 s 34.1 s								
These values are calculated. The final rating plate data will be calculated when the order is placed																	
The efficiency values and efficiency class according to EuP directive are valid for standard power ratings under standard conditions.																	

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	77 / 85 dB(A) ^{2) 3)}	77 / 89 dB(A) ^{2) 3)}	Thermal class	F
Moment of inertia	0.0457 kg m ²		Duty type	S1
Bearing DE NDE	6309 C3	6309 C3	Direction of rotation	bidirectional
bearing lifetime			Frame material	cast iron
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	20000 h	16000 h	Net weight of the motor	171 kg
Regreasing device	Without		Motor weight incl. options	172 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing DE		Color, paint shade	RAL7030
Condensate drainage holes	Without		Motor protection	(A) without (Standard)
External earthing terminal	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled
Vibration severity grade	A			

Terminal box

Terminal box position	top	Max. cross-sectional area	16 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	19 mm - 28 mm
Type of terminal box	TB1 J21	Cable entry	-/-
Contact screw thread	M5		

I_A/I_N = locked rotor current / current nominal 1) L_{10mh} according to DIN ISO 281 10/2010 3) Value is valid only for DOL operation with motor design IC411
M_K/M_N = locked rotor torque / torque nominal 2) at rated power I at full load
M_B/M_N = break down torque / nominal torque

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Responsible department IN LVM	Technical reference	Created by SPC	Approved by Created automatically	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents	
INNOMOTICS	Document type Technical data sheet			Document status Released			
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	H00+N07+Q02			Revision AA	Creation date 2024-10-11		
Restricted © Innomotics 2024						Language en	Page 1/2

INNOMOTICS XP - 160 M - IM V1 - 2p

H00	Canopy	Q02	Anti-condensation heating for 230 V (2 terminals)
N07	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 55°C, power reduced		

Space heaters

Technical data:	1-phase, 230 V 50W
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