

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



Motor type : 1CD3164A

INNOMOTICS XP - 160 L - 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 [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	M _K /M _N	IE-CL
								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	17.75	-/-	31.00	2955	57.4	92.5	92.7	92.1	0.90	0.86	0.79	8.7	2.9	4.1	IE3
690	Y	50	17.75	-/-	17.90	2955	57.4	92.5	92.7	92.1	0.90	0.86	0.79	8.7	2.9	4.1	IE3
460	Δ	60	17.75	-/-	27.00	3560	47.6	91.7	91.4	89.9	0.90	0.86	0.78	9.8	3.2	4.6	IE3
IM V1 / IM 3011		FS 160 L			IP55		IEC/EN 60034										

Environmental conditions : -20 °C - +45 °C / 1000 m

Locked rotor time (hot / cold) : 16.8 s | 25.1 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	0.0637 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	192 kg
Regreasing device	Without		Motor weight incl. options	192 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	(B) 3 PTC thermistors - for tripping (2 terminals)
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
 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

H00	Canopy	N05	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 45°C, power reduced
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