

Preliminary data sheet for three-phase Squirrel-Cage-Motors INNOMOTICS



Motor type : 1CV2312B INNOMOTICS XP - 315 M - IM B3 - 4p

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

Remarks Ex II 3G Ex ec IIC T3 Gc

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)																	
415	Δ	50	110.00	-/-	190.00	1490	705.0	94.8	94.8	94.2	0.85	0.80	0.71	7.4	2.8	3.0	IE2
IM B3 / IM 1001			FS 315 M			IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : - 20 °C - +45 °C / 1000 m									Locked rotor time (hot / cold) : 28.8 s 46.8 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	75 / 89 dB(A) ^{2) 3)}	79 / 93 dB(A) ^{2) 3)}	External earthing terminal	With (standard)
Moment of inertia	2.3000 kgm²		Vibration severity grade	A
Bearing DE NDE	6319 C3	6319 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	40 g 40 g 3000 h		Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	870 kg
Regreasing device	With (standard)		Coating (paint finish)	Standard paint finish C2
Grease nipple	M10x1 DIN 3404 A		Color, paint shade	RAL7032
Type of bearing	Locating bearing NDE		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
Condensate drainage holes	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	240 mm²
Material of terminal box	cast iron	Cable diameter from ... to ...	
Type of terminal box	TB1 R01	Cable entry	2xM63x1,5-2xM20x1,5
Contact screw thread	M16		

I_L/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_K/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.	
INNOMOTICS	Document type Technical data sheet	Document status Released			
	Document title 1MB1531-3AB29-0AB4-Z	Document number TDS-250121-183507			
Restricted © Innomotics 2025		Revision AA	Creation date 2025-01-21	Language en	Page