

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



Motor type : 1CV3184D

INNOMOTICS SD - 180 L - IM B5 - 8p

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

Remarks	Safe Area
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)																	
230	Δ	50	11.00	-/-	42.00	725	145.0	88.6	89.6	89.0	0.74	0.67	0.55	5.1	2.1	2.4	IE3
400	Y	50	11.00	-/-	24.00	725	145.0	88.6	89.6	89.0	0.74	0.67	0.55	5.1	2.1	2.4	IE3
IM B5 / IM 3001			FS 180 L				IP55	UKCA		IEC/EN 60034		IEC, EN, UL, CSA					
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 33.9 s 52.5 s								

Mechanical data				
Sound level (SPL / SWL) at 50Hz 60Hz	67 / 74 dB(A) ^{2) 3)}	71 / 78 dB(A) ^{2) 3)}	External earthing terminal	With (standard)
Moment of inertia	0.2600 kg m²		Vibration severity grade	A
Bearing DE NDE	6310 C3	6310 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	15 g 15 g 8000 h		Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	190 kg
Regreasing device	With (standard)		Coating (paint finish)	Special paint finish C3
Grease nipple	M10x1 DIN 3404 A		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(F) 1 temperature sensor KTY84-130 (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			16 mm ²								
Material of terminal box			cast iron			Cable diameter from ... to ...			19 mm - 28 mm								
Type of terminal box			TB1 J01			Cable entry			2xM40x1,5-1xM16x1,5								
Contact screw thread			M5			Cable gland			3 plugs								

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	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents	
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Special design

D31	Version according to UL with "Recognition Mark"	F11	Brake supply voltage, 230 V AC, 50/60 Hz
D40	Canadian regulations (CSA)	F50	Mechanical manual brake release with lever (cannot be locked)
F01	Mounting of holding brake	G11	Rotary pulse encoder Sendix 5020 (HTL)

Additional information:

Brake:

Description:	BFK458-20	Current:	A
Voltage:	AC 230 V	Moment of inertia:	kgm ²

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