

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



Motor type : 1CV3184B

INNOMOTICS SD - 180 L - IM B5 - 4p

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

Remarks	Safe Area
	-/-

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	22.00	-/-	41.00	1470	143.0	93.0	93.6	93.6	0.83	0.78	0.68	6.8	2.3	3.3	IE3
460	Δ	60	25.30	-/-	41.00	1770	136.0	93.6	94.1	94.0	0.83	0.78	0.69	6.9	2.2	3.2	IE3
460	Δ	60	22.00	30.00	36.50	1775	118.0	93.6	93.8	93.3	0.81	0.75	0.65	7.7	2.8	3.7	MG1
IM B5 / IM 3001			FS 180 L		CC032A		IP55	UKCA		IEC/EN 60034		IEC, EN, UL, CSA, NEMA MG1-12-12			kVA Code: K		
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 25.9 s 40.6 s								

Mechanical data				
Sound level (SPL / SWL) at 50Hz 60Hz	68 / 75 dB(A) ^{2) 3)}	70 / 77 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.1400 kg m²		Thermal class	F
Bearing DE NDE	6210 2Z C3	6210 2Z C3 INS	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L _{10mh} F _{Rad min} 50 60Hz ¹⁾ for coupling operation	40000 h	32000 h	Frame material	cast iron
Regreasing device	Without		Net weight of the motor (IM B3)	170 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing NDE		Color, paint shade	RAL7030
Bearing insulation DE / Bearing insulation NDE	Yes (non-drive end)		Motor protection	(H) 3 resistance thermometers PT100 (6 terminals)
Condensate drainage holes	With (standard)		Method of cooling	IC416 - separately ventilated, surface cooled
External earthing terminal	With (standard)			

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_K/M_N = locked rotor torque / torque nominal
M_B/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

F01	Mounting of holding brake	G11	Rotary pulse encoder Sendix 5020 (HTL)
F10	Brake supply voltage 24 V DC	L51	Bearing insulation NDE
F70	Mounting of separately driven fan		

Additional information:

Brake:

Description:	BFK458-20	Current:	A
Voltage:	DC 24 V	Moment of inertia:	kgm²

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