

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



Motor type : 1CV3184B

INNOMOTICS SD - 180 L - IM B35 - 4p

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

Remarks

Electrical data														Safe Area				
U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	4/4	η ³⁾ 3/4	2/4	4/4	cosφ ³⁾ 3/4	2/4	I _A /I _N I _I /I _N	M _A /M _N T _I /T _N	M _K /M _N T _B /T _N	IE-CL	
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 B35 / IM 2001			FS 180 L		CC032A		IP55	IEC/EN 60034			IEC, EN, UL, CSA, NEMA MG1-12-12				K			
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 24.60 s 38.50 s									

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	68.0 / 75.0 dB(A) 2) 3)	70.0 / 77.0 dB(A) ²⁾ 3)	Vibration severity grade	A
Moment of inertia	0.1400 kg m ²		Thermal class	F
Bearing DE NDE	6210 2Z C3	6210 2Z C3	Duty type	S1
Bearing lifetime L _{10mh} F _{rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Direction of rotation	bidirectional
Regreasing device	Without		Frame material	cast iron
Grease nipple	-/-		Net weight of the motor (IM B3)	178 kg
Type of bearing	Locating bearing NDE		Coating (paint finish)	Standard paint finish C2
Condensate drainage holes	With		Color, paint shade	RAL7030
External earthing terminal	With		Motor protection	6 bimetal sensors (NC contacts) for alarm and tripping (4 terminals)
			Method of cooling	IC411 - self ventilated, surface cooled
			Carbon footprint (without options)	762kg

Terminal box

Terminal box position	top	Main cable entry	2xM40x1.5
Material of terminal box	cast iron	Main cable gland	2 plugs
Type of terminal box	TB1 J01	Auxiliary cable entry	1xM16x1.5
Contact screw thread	6xM5	Auxiliary cable gland	1 plug
Max. cross-sectional area	16.0 mm ²		

I_A/I_N = locked rotor current / current nominal
M_K/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 LV	Technical reference	Created by IPC	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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Q9A	6 Bi-metallic sensors (opener) for warning and tripping (4 terminals)
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H03	Condensation drain holes in end shield	H04	External grounding at housing
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