

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

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 I _I /I _N	M _A /M _N T _I /T _N	M _K /M _N T _B /T _N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
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
690	Y	50	22.00	-/-	24.00	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	-/-	36.50	1775	118.0	93.6	93.8	93.3	0.81	0.75	0.65	7.7	2.8	3.7	IE3
IM B5 / IM 3001		FS 180 L		IP55		UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
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 m ²		Thermal class	F
Bearing DE NDE	6210 2Z C3	6210 2Z C3	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)	178 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing NDE		Color, paint shade	RAL7030
Condensate drainage holes	With (standard)		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
External earthing terminal	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled

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 mm ²		

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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INNOMOTICS	Document type Technical data sheet	Document status Released			
	Document title 1LE1503-1EB43-4FB4	Document number TDS-250731-170855			
Restricted © Innomotics 2025		Revision AA	Creation date 2025-07-31	Language en	Page 1/1