

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



Motor type : 1CV2182B INNOMOTICS SD - 180 M - IM V1 - 4p

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)																	
440	Δ	60	21.30	-/-	35.50	1765	115.0	92.4	93.0	92.7	0.85	0.81	0.72	6.8	2.5	3.4	IE2
IM V1 / IM 3011			FS 180 M				IP55	UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN					
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 11.6 s 20.9 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	61 / 74 dB(A) ^{2) 3)}	64 / 77 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.1200 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} for coupling operation 50 60Hz ¹⁾	20000 h	16000 h	Frame material	cast iron
Regreasing device	Without		Net weight of the motor (IM B3)	160 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	1/3 Bi-metallic sensors (opener) for tripping (2 terminals)
External earthing terminal	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

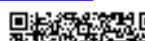
Terminal box position	top	Max. cross-sectional area	16 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	19 mm - 28 mm
Type of terminal box	TB1 J01	Cable entry	2xM40x1,5-1xM16x1,5
Contact screw thread	M5	Cable gland	3 plugs

I_A/I_N = locked rotor current / current nominal
M_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 I at full load

3) Value is valid only for DOL operation with motor design IC411

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Special design

D22	Motor without CE character for export outside the EEA (see EU regulation 2019/1781)	F50	Mechanical manual brake release with lever (cannot be locked)
D47	TR CU product safety certificate EAC for the Eurasian Customs Union	M1D	440 VD for 60 Hz, 60-Hz power
F01	Mounting of holding brake	Q02	Anti-condensation heating for 230 V (2 terminals)
F11	Brake supply voltage, 230 V AC, 50/60 Hz	Q3A	1/3 Bi-metallic sensors (opener) for tripping (2 terminals)

Additional information:

Space heaters

Technical data: 1-phase, 230 V 50W

Brake:

Description:	BFK458-20	Current:	A
Voltage:	AC 230 V	Moment of inertia:	kgm²

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