

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



Motor type : 1CV2082C INNOMOTICS SD - 80 M - IM B14 - 6p

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]	η ³⁾			cosφ ³⁾			I _A /I _N	M _A /M _N	M _K /M _N	IE-CL
								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	0.37	-/-	1.99	925	3.8	67.6	67.9	64.4	0.69	0.60	0.47	4.0	2.1	2.4	IE2
400	Y	50	0.37	-/-	1.14	925	3.8	67.6	67.9	64.4	0.69	0.60	0.47	4.0	2.1	2.4	IE2
460	Y	60	0.43	-/-	1.22	1125	3.6	64.0	64.1	61.3	0.69	0.60	0.48	4.2	2.1	2.6	IE2
460	Y	60	0.37	-/-	1.15	1140	3.1	64.0	63.0	59.1	0.63	0.54	0.42	4.6	2.3	2.9	IE2
IM B14 / IM 3601		FS 80 M		IP55				IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 18.90 s 31.60 s								

Mechanical data				
Sound level (SPL / SWL) at 50Hz 60Hz	42.0 / 53.0 dB(A) 2) 3)	45.0 / 56.0 dB(A) 2) 3)	Vibration severity grade	A
Moment of inertia	0.0017 kg m²		Thermal class	F
Bearing DE NDE	6204 2Z C3	6204 2Z C3	Duty type	S1
Bearing lifetime			Direction of rotation	bidirectional
L _{10min} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Frame material	cast iron
Regreasing device	Without		Net weight of the motor (IM B3)	16.5 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Preloaded bearing DE		Color, paint shade	RAL7030
Condensate drainage holes	Without		Motor protection	(A) without (Standard)
External earthing terminal	Without		Method of cooling	IC411 - self ventilated, surface cooled
			Carbon footprint (without options)	41kg

Terminal box			
Terminal box position	left	Max. cross-sectional area	2.5 mm²
Material of terminal box	cast iron	Main cable entry	1xM25x1.5
Type of terminal box	TB1 D01	Main cable gland	1 plug
Contact screw thread	6xM4		

I_A/I_N = locked rotor current / current nominal
M_r/M_N = locked rotor torque / torque nominal
M_K/M_N = break down torque/ nominal torque
1) L_{10min} 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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INNOMOTICS SD - 80 M - IM B14 - 6p

P01	Next larger standard flange
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F74	Sheet steel fan cowl
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