

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



Motor type : 1AV3086B INNOMOTICS GP - 80 M - IM B5 - 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]	η ³⁾			cosφ ³⁾			I _A /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)																	
230	Δ	50	1.10	-/-	4.20	1445	7.3	84.1	84.6	83.6	0.78	0.70	0.58	7.0	3.0	3.5	IE3
400	Y	50	1.10	-/-	2.40	1445	7.3	84.1	84.6	83.6	0.78	0.70	0.58	7.0	3.0	3.5	IE3
460	Y	60	1.27	-/-	2.40	1740	7.0	84.0	84.5	83.1	0.79	0.72	0.59	7.8	3.0	3.0	IE2
460	Y	60	1.10	-/-	2.15	1750	6.0	86.5	86.4	84.2	0.75	0.67	0.54	8.6	3.5	4.4	IE3
IM B5 / IM 3001		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) : 17.90 s 22.50 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	63.0 / 70.0 dB(A) 2) 3)	60.0 / 68.0 dB(A) 2) 3)	Vibration severity grade	A
Moment of inertia	0.0033 kg m²		Thermal class	F
Bearing DE NDE	6004 2Z C3	6004 2Z C3	Duty type	S1
Bearing lifetime			Direction of rotation	bidirectional
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Frame material	aluminum
Regreasing device	Without		Net weight of the motor (IM B3)	15 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)	81kg

Terminal box

Terminal box position	top	Max. cross-sectional area	4.0 mm²
Material of terminal box	Aluminium	Main cable entry	1xM25x1.5
Type of terminal box	TB1 E00	Main cable gland	1 plug
Contact screw thread	3xM4		

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_{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	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents	
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