

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



Motor type : 1AV2083D

INNOMOTICS GP - 80 M - IM B5 - 8p

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]	$\eta^{(3)}$			$\cos\phi^{(3)}$			I_A/I_N	M_A/M_N	M_R/M_N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4	I_V/I_N	T_A/T_N	T_B/T_N	
DOL duty (S1) - 155(F) to 130(B)																	
220	Δ	50	0.25	-/-	2.35	705	3.4	50.6	48.1	41.9	0.55	0.46	0.37	2.5	2.0	2.5	IE2
380	Y	50	0.25	-/-	1.36	705	3.4	50.6	48.1	41.9	0.55	0.46	0.37	2.5	2.0	2.5	IE2
440	Y	60	0.29	-/-	1.33	855	3.2	52.0	49.7	44.2	0.55	0.46	0.37	2.7	1.9	2.6	IE2
440	Y	60	0.25	-/-	1.24	860	2.8	52.0	49.0	43.0	0.51	0.43	0.35	2.9	2.2	3.0	IE2
IM B5 / IM 3001			FS 80 M			IP55		UKCA		IEC/EN 60034			IEC, DIN, ISO, VDE, EN				
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 45.70 s 62.20 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	51.0 / 62.0 dB(A) ²⁾ ₃₎	55.0 / 66.0 dB(A) ²⁾ ₃₎	Vibration severity grade	A
Moment of inertia	0.0025 kg m ²		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)	13 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)	56kg

Terminal box

Terminal box position	top	Max. cross-sectional area	4.0 mm ²
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_V/M_N = break down torque / nominal torque
¹⁾ L_{10mh} according to DIN ISO 28110/2010
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 LVM	Technical reference	Created by IPC	Approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.
INNOMOTICS	Document type Technical data sheet	Document status Released		
	Document title 1LE1001-ODD32-1FA4	Document number TDS-250915-131603		
Restricted © Innomotics 2025		Revision AA	Creation date 2025-09-15	Language en
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