

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



Motor type : 1AV2082B INNOMOTICS GP - 80 M - IM B14 - 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)																	
230	Δ	50	0.55	-/-	2.40	1440	3.6	77.1	76.8	73.7	0.74	0.65	0.51	5.3	2.2	3.1	IE2
400	Y	50	0.55	-/-	1.39	1440	3.6	77.1	76.8	73.7	0.74	0.65	0.51	5.3	2.2	3.1	IE2
460	Y	60	0.63	-/-	1.42	1735	3.5	75.5	75.8	73.5	0.74	0.67	0.54	5.7	2.4	3.3	IE2
460	Y	60	0.55	-/-	1.29	1750	3.0	75.5	74.6	71.1	0.71	0.62	0.49	6.4	2.7	3.8	IE2
IM B14 / IM 3601		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) : 17.8 s 23.3 s								

Mechanical data				
Sound level (SPL / SWL) at 50Hz 60Hz	53 / 64 dB(A) ^{2) 3)}	55 / 66 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0017 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)	10 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	(K) 1 Pt1000 resistance thermometer(2 terminals)
External earthing terminal	Without		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box																	
Terminal box position			top				Max. cross-sectional area										
Material of terminal box			Aluminium				1.5 mm ²										
Type of terminal box			TB1 E00				Cable diameter from ... to ...										
Contact screw thread			M4				9 mm - 17 mm										
							Cable entry										
							1xM25x1,5-1xM16x1,5										
							Cable gland										
							2 plugs										

I_A/I_N = locked rotor current / current nominal 1) L_{10mh} according to DIN ISO 281 10/2010 3) Value is valid only for DOL operation with motor design IC411
M_K/M_N = locked rotor torque / torque nominal 2) at rated power / at full load
M_B/M_N = break down torque / nominal torque

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Responsible department IN LVM	Technical reference	Created by SPC	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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