

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



Motor type : 1AV3164D INNOMOTICS GP - 160 L - IM B3 - 8p

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	7.50	-/-	29.50	730	98.0	87.3	87.9	86.9	0.73	0.64	0.52	5.8	2.3	2.7	IE3
400	Y	50	7.50	-/-	16.90	730	98.0	87.3	87.9	86.9	0.73	0.64	0.52	5.8	2.3	2.7	IE3
460	Y	60	8.60	-/-	16.50	880	93.0	88.5	90.1	89.2	0.74	0.66	0.54	6.1	2.3	2.7	IE2
460	Y	60	7.50	10.00	14.80	885	81.0	89.5	89.5	88.1	0.71	0.62	0.50	6.7	2.6	2.6	MG1
IM B3 / IM 1001		FS 160 L		CC032A		IP55	UKCA	IEC/EN 60034		IEC, EN, UL, CSA, NEMA MG1-12-12				kVA Code:			
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 24.8 s 40 s								

Mechanical data				
Sound level (SPL / SWL) at 50Hz 60Hz	65 / 78 dB(A) ^{2) 3)}	66 / 79 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.1300 kg m²		Thermal class	F
Bearing DE NDE	6309 2Z C3	6209 2Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L _{10mh} F _{Rad min} 50 60Hz ¹⁾ for coupling operation	40000 h	32000 h	Frame material	aluminum
Regreasing device	Without		Net weight of the motor (IM B3)	86 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing NDE		Color, paint shade	RAL7030
Condensate drainage holes	Without		Motor protection	(F) 1 temperature sensor KTY84-130 (2 terminals)
External earthing terminal	Without		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box																	
Terminal box position			right			Max. cross-sectional area			16 mm ²								
Material of terminal box			Aluminium			Cable diameter from ... to ...			19 mm - 28 mm								
Type of terminal box			TB1 J00			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 / 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 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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Special design

G41 Prepared to mount components with D12 shaft L22 Bearing design for increased cantilever forces

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