

# Data sheet for three-phase Squirrel-Cage-Motors Innomatics



**Motor type : 1AV3162A**

**INNOMOTICS GP - 160 M - IM B5 - 2p**

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project

Remarks

**Electrical data** **Safe Area**

U [V]	$\Delta/Y$	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	$\eta^{(3)}$			$\cos\phi^{(3)}$			$I_A/I_N$	$M_A/M_N$	$M_R/M_N$	$M_B/M_N$	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4	$I_A/I_N$	$T_A/T_N$	$T_R/T_N$	$T_B/T_N$	
<b>DOL duty (S1) - 155(F) to 130(B)</b>																		
400	$\Delta$	50	11.00	-/-	19.60	2945	35.5	91.2	91.4	90.6	0.89	0.86	0.79	8.3	2.5	3.5		IE3
690	Y	50	11.00	-/-	11.30	2945	35.5	91.2	91.4	90.6	0.89	0.86	0.79	8.3	2.5	3.5		IE3
460	$\Delta$	60	12.60	-/-	19.30	3540	34.0	91.0	90.9	89.5	0.90	0.87	0.81	8.4	2.5	3.5		IE3
460	$\Delta$	60	11.00	-/-	17.20	3555	29.5	91.0	90.4	88.4	0.88	0.85	0.77	9.5	2.9	4.0		IE3
IM B5 / IM 3001		FS 160 M		IP55		UKCA		IEC/EN 60034			IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1000 m										Locked rotor time (hot / cold) : 21.30 s   29.70 s								

**Mechanical data**

Sound level (SPL / SWL) at 50Hz 60Hz	77.0 / 85.0 dB(A) <sup>2)</sup>	82.0 / 90.0 dB(A) <sup>2) 3)</sup>	Vibration severity grade	A
Moment of inertia	0.0370 kg m <sup>2</sup>		Thermal class	F
Bearing DE   NDE	6209 2Z C3	6209 2Z C3	Duty type	S1
<b>Bearing lifetime</b>			Direction of rotation	bidirectional
$L_{10mh}$ $F_{Rad min}$ for coupling operation 50 60Hz <sup>1)</sup>	40000 h	32000 h	Frame material	aluminum
Regreasing device	Without		Net weight of the motor (IM B3)	75 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	(A) without (Standard)
External earthing terminal	Without		Method of cooling	IC411 - self ventilated, surface cooled
			Carbon footprint (without options)	339kg

**Terminal box**

Terminal box position	top	Max. cross-sectional area	16.0 mm <sup>2</sup>
Material of terminal box	Aluminium	Main cable entry	2xM40x1.5
Type of terminal box	TB1 J00	Main cable gland	2 plugs
Contact screw thread	6xM5		

$I_A/I_N$  = locked rotor current / current nominal  
 $M_A/M_N$  = locked rotor torque / torque nominal  
 $M_R/M_N$  = break down torque / nominal torque  
<sup>1)</sup>  $L_{10mh}$  according to DIN ISO 28110/2010  
<sup>2)</sup> at rated power / at full load  
<sup>3)</sup> 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	<b>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</b>	
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