

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



**Motor type : 1AV3184C**

**INNOMOTICS GP - 180 L - IM B3 - 6p**

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
DOL duty (S1) - 155(F) to 130(B)																		
460	$\Delta$	60	15.00	-/-	26.00	1178	122.0	91.7	92.0	91.4	0.79	0.73	0.61	6.8	2.5	3.0		IE3
IM B3 / IM 1001		FS 180 L		IP55		UKCA		IEC/EN 60034			IEC, DIN, ISO, VDE, EN			KS C IEC60034-2-1				
Environmental conditions : -20 °C - +40 °C / 1000 m										Locked rotor time (hot / cold) : 39.10 s   58.80 s								

**Mechanical data**

Sound level (SPL / SWL) at 50Hz 60Hz	61.0 / 68.0 dB(A) <sup>2)</sup>	61.0 / 68.0 dB(A) <sup>2)</sup>	Vibration severity grade	A
Moment of inertia	0.1900 kg m <sup>2</sup>		Thermal class	F
Bearing DE   NDE	6210 2Z C3	6210 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)	130 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	(B) 3 PTC thermistors - for tripping (2 terminals)
External earthing terminal	Without		Method of cooling	IC411 - self ventilated, surface cooled

**Terminal box**

Terminal box position	top	Main cable entry	2xM40x1.5
Material of terminal box	Aluminium	Main cable gland	2 plugs
Type of terminal box	TB1 J00	Auxiliary cable entry	1xM16x1.5
Contact screw thread	6xM5	Auxiliary cable gland	1 plug
Max. cross-sectional area	16.0 mm <sup>2</sup>		

$I_A/I_N$  = 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 281 10/2010  
<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	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.	
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## Special design

M2F 460 VD for 60 Hz, 50-Hz power



$I_L/I_N$  = locked rotor current / current nominal  
 $M_L/M_N$  = locked rotor torque / torque nominal  
 $M_B/M_N$  = break down torque / nominal torque

1)  $L_{(0.75)}$  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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