

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



Motor type : 1AV3094A

SIMOTICS GP - 90 L - IM B35 - 2p

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

Remarks

Safe Area

Electrical data

-/-

U	$\Delta / Y$	f	P	P	I	n	M	$\eta^{3)}$			$\cos\phi^{3)}$			$I_A/I_N$	$M_A/M_N$	$M_K/M_N$	IE-CL
[V]		[Hz]	[kW]	[hp]	[A]	[1/min]	[Nm]	4/4	3/4	2/4	4/4	3/4	2/4	$I_i/I_N$	$T_i/T_N$	$T_B/T_N$	
<b>DOL duty (S1) - 155(F) to 130(B)</b>																	
480	Y	60	2.20	3.00	3.50	3530	6.0	86.5	86.4	84.5	0.87	0.82	0.71	9.6	3.0	4.9	MG1
IM B35 / IM 2001		FS 90 L		CC032A		IP55	UKCA	IEC/EN 60034		IEC, EN, UL, CSA, NEMA MG1-12-12			kVA Code: N				
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 5.9 s   8.5 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	65 / 77 dB(A) <sup>2) 3)</sup>	69 / 81 dB(A) <sup>2) 3)</sup>	Vibration severity grade	A
Moment of inertia	0.0031 kg m <sup>2</sup>		Thermal class	F
Bearing DE   NDE	6205 2Z C3	6004 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)	19 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Preloaded bearing DE		Color, paint shade	RAL7030
Condensate drainage holes	With (standard)		Motor protection	(B) 1 PTC thermistor - for tripping (2 terminals)
External earthing terminal	Without		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	1.5 mm <sup>2</sup>
Material of terminal box	Aluminium	Cable diameter from ... to ...	9 mm - 17 mm
Type of terminal box	TB1 E10	Cable entry	1xM25x1,5-1xM16x1,5
Contact screw thread	M4	Cable gland	2 plugs

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

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Restricted © Innomotics 2024	M2K+N30+R11	Revision AA	Creation date 2024-06-05		

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## Special design

M2K	480 VY for 60 Hz, 50-Hz power	R11	Terminal box rotated through 90°, cable entry from NDE
N30	Increased air humidity/temperature with 30 to 60 g water per m3 air		

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