

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



Motor type : 1AV1163A

SIMOTICS GP - 160 M - IM B3 - 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]	$\eta^{3)}$			$\cos\phi^{3)}$			$I_A/I_N$	$M_A/M_N$	$M_K/M_N$	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
400	$\Delta$	50	15.00	-/-	28.50	2935	49.0	88.7	88.9	87.2	0.85	0.79	0.70	6.8	2.4	3.2	IE1
690	Y	50	15.00	-/-	16.60	2935	49.0	88.7	88.9	87.2	0.85	0.79	0.70	6.8	2.4	3.2	IE1
460	$\Delta$	60	17.30	-/-	28.00	3530	47.0	89.5	89.1	87.4	0.86	0.82	0.74	6.9	2.4	3.2	IE1
IM B3 / IM 1001		FS 160 M		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN									
Environmental conditions : -20 °C - +40 °C / 1000 m								Locked rotor time (hot / cold) : 12.5 s   24.3 s									

## Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	70 / 82 dB(A) <sup>2)</sup>	77 / 89 dB(A) <sup>2)</sup>	Vibration severity grade	A
Moment of inertia	0.0360 kg m <sup>2</sup>		Insulation	155(F) to 130(B)
Bearing DE   NDE	6209 2Z C3	6209 2Z C3	Duty type	S1
<b>bearing lifetime</b>			Direction of rotation	bidirectional
L <sub>10mh</sub> , F <sub>Rad</sub> min 50 60Hz <sup>1)</sup>	40000 h	32000 h	Frame material	aluminum
Lubricants	Unirex N3		Net weight of the motor (IM B3)	68 kg
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(A) without (Standard)
Condensate drainage holes	No		Method of cooling	IC411 - self ventilated, surface cooled
External earthing terminal	No			

## Terminal box

Terminal box position	top	Max. cross-sectional area	16 mm <sup>2</sup>
Material of terminal box	Aluminium	Cable diameter from ... to ...	19 mm - 28 mm
Type of terminal box	TB1 J00	Cable entry	2xM40x1,5
Contact screw thread	M5	Cable gland	2 plugs

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### Notes:

$I_A/I_N$ = locked rotor current / current nominal	1) L10mh according to DIN ISO 281 10/2010	3) Value is valid only for DOL operation with motor design IC411
$M_A/M_N$ = locked rotor torque / torque nominal	2) at rated power / at full load	
$M_K/M_N$ = break down torque / nominal torque		

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.			
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