

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



Motor type : 1AV3163A

SIMOTICS GP - 160 M - IM B3 - 2p

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

Remarks **Safe Area**

Electrical data

-/-

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η ³⁾			cosφ ³⁾			I _A /I _N I _I /I _N	M _A /M _N T _I /T _N	M _K /M _N T _B /T _N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	12.30	-/-	23.50	2960	39.7	91.9	91.3	89.2	0.82	0.76	0.64	12.4	4.3	5.4	IE3
690	Y	50	12.30	-/-	13.60	2960	39.7	91.9	91.3	89.2	0.82	0.76	0.64	12.4	4.3	5.4	IE3
460	Δ	60	14.18	-/-	23.00	3555	38.1	91.5	90.8	88.5	0.85	0.79	0.69	12.3	4.0	5.5	IE3
460	Δ	60	14.55	-/-	23.50	3560	39.0	90.9	90.2	88.0	0.85	0.80	0.70	12.2	4.1	5.4	IE3
IM B3 / IM 1001		FS 160 M		IP55		UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

Environmental conditions : -20 °C - +60 °C / 1000 m

Locked rotor time (hot / cold) : 13.3 s | 18.9 s

These values are calculated. The final rating plate data will be calculated when the order is placed

The efficiency values and efficiency class according to EuP directive are valid for standard power ratings under standard conditions.

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	77 / 85 dB(A) ^{2) 3)}	81 / 89 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0430 kg m ²		Thermal class	F
Bearing DE NDE	6209 2Z C3	6209 2Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Frame material	aluminum
Regreasing device	Without		Net weight of the motor (IM B3)	78 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

Terminal box

Terminal box position	top	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
Contact screw thread	M5	Cable gland	2 plugs

I_A/I_N = locked rotor current / current nominal
 M_A/M_N = locked rotor torque / torque nominal
 M_K/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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Special design

N08 Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 60°C, power reduced

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