

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



Motor type : 1AV1164B

SIMOTICS GP (VSD) - 160 L - IM B5 - 4p

Motor Code 17026

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

Electrical data

Safe Area

U	Δ / Y	f	P	P	I	n	M	η			cosφ			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	
220	Δ	51.4	15.00	-/-	55.00	1500	95.0	88.7	-/-	-/-	0.82	-/-	-/-	-/-	-/-	3.4	-/-
380	Y	51.4	15.00	-/-	31.50	1500	95.0	88.7	-/-	-/-	0.82	-/-	-/-	-/-	-/-	3.4	-/-
440	Y	61.4	17.30	-/-	31.00	1800	92.0	90.5	-/-	-/-	0.82	-/-	-/-	-/-	-/-	3.4	-/-
380	Δ	88.2	23.50	-/-	52.00	2610	86.0	90.5	-/-	-/-	0.77	-/-	-/-	-/-	-/-	4.5	-/-
IM B5 / IM 3001		FS 160 L		73 kg		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN				n _{max} 4200 1/min			

Environmental conditions : -20 °C - +40 °C / 1,000 m

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	84 / 96 dB(A) ^{2) 3)}	82 / 94 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0560 kg m ²		Insulation	155(F) to 155(F)
Bearing DE NDE	6209 2ZC3	6209 2ZC3	Duty type	S9
Relubrication interval/quantity DE NDE	40000 h		Direction of rotation	bidirectional
Lubricants	Esso Unirex N3		Frame material	aluminum
Regreasing device	No		Data of anti condensation heating	-/- V, -/- W
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing NDE		Color, paint shade	RAL7030
Condensate drainage holes	No		Motor protection	(B) 3 PTC thermistors - for tripping
External earthing terminal	No		Method of cooling	IC416 - separately ventilated, surface cooled

Converter data

Feeding	SINAMICS with uncontrolled supply	Recommended converter	-/-
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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	2xM40x1,5-1xM16x1,5
Contact screw thread	M5	Cable gland	3 plugs -/-

Notes:

I_A/I_N = locked rotor current / current nominal
M_K/M_N = locked rotor torque / torque nominal
M_B/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

responsible dep.	technical reference	created by	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents	
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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	F11	Brake supply voltage, 230 V AC, 50/60 Hz
D39	Design according UL and CSA (Canadian Regulation)	F70	Mounting of separately driven fan

Notes:

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) $L_{10\text{min}}$ according to DIN ISO 281 10/2010

2) at rated power / at full load

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