

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



Motor type : 1AV1164B

- 160 L - IM B35 - 4p

Motor Code 17026

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

Remarks

Electrical data

Safe Area

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η			cosφ			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				
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 B35 / IM 2001	FS 160 L	73 kg	IP55	IEC/EN 60034	IEC, DIN, ISO, VDE, EN	η _{max} 4200 1/min
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Environmental conditions : -20 °C - +40 °C / 1000 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)	
Type of bearing	Locating bearing NDE		Color, paint shade	RAL7030
Condensate drainage holes	No		Motor protection	(K) 1 Pt1000 resistance thermometer (2 terminals)
External earthing terminal	No		Method of cooling	IC411 - self 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) L10mh 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.
DI MC LVM		DT Configurator		

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