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

Motor type : 1AV2184B **SIMOTICS GP - 180 L - IM B35 - 4p**

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 3) 4/4	η 3) 3/4	η 3) 2/4	cosφ 3) 4/4	cosφ 3) 3/4	cosφ 3) 2/4	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
400	Δ	50	22.00	-/-	41.50	1465	143.0	91.6	92.2	91.9	0.84	0.79	0.69	7.3	2.6	3.5	IE2
690	Y	50	22.00	-/-	24.00	1465	143.0	91.6	92.2	91.9	0.84	0.79	0.69	7.3	2.6	3.5	IE2
460	Δ	60	25.30	-/-	40.50	1765	137.0	92.4	92.9	92.5	0.85	0.80	0.72	7.5	2.6	3.4	IE2
460	Δ	60	22.00	-/-	36.00	1770	119.0	92.4	92.5	91.8	0.83	0.78	0.68	8.4	3.0	3.9	IE2

IM B35 / IM 2001	FS 180 L	132 kg	IP55	IEC/EN 60034	IEC, DIN, ISO, VDE, EN

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

Locked rotor time (hot / cold) : 9.79 s | 18.7 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	69.0 / 76.0 dB(A) 2)	72.0 / 79.0 dB(A) 2)	External earthing terminal	No
Moment of inertia	0.1300 kg m²		Vibration severity grade	A
Bearing DE | NDE	6210 Z C3	6210 Z C3	Insulation	155(F) to 130(B)
bearing lifetime			Duty type	S1
L_{10mh} $F_{Rad\ min}$ for coupling operation 50|60Hz 1)	40000 h	32000 h	Direction of rotation	bidirectional
Lubricants	Unirex N3		Frame material	aluminum
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	-/-		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	16.0 mm²
Material of terminal box	Aluminium	Cable diameter from ... to ...	19.0 mm - 28.0 mm
Type of terminal box	TB1 J00	Cable entry	2xM40x1,5
Contact screw thread	M5	Cable gland	2 plugs

Notes:

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) 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	
DI MC LVM		DT Configurator		*Technical data are subject to change! There may be discrepancies between calculated and rating plate values.*

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