

SIMOTICS GP - 80 M - IM B35 - 2p

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

Remarks

Safe Area

U	Δ / Y	f	P	P	I	n	M	η ³⁾			cosφ ³⁾			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	
230	Δ	50	1.10	-/-	4.20	2835	3.7	79.6	81.3	80.9	0.83	0.77	0.64	6.0	2.7	3.1	IE2
400	Y	50	1.10	-/-	2.40	2835	3.7	79.6	81.3	80.9	0.83	0.77	0.64	6.0	2.7	3.1	IE2
460	Y	60	1.27	-/-	2.30	3430	3.5	82.5	83.9	83.1	0.84	0.80	0.69	6.3	2.7	3.3	IE2
460	Y	60	1.10	-/-	2.05	3465	3.0	82.5	83.0	81.4	0.82	0.75	0.64	7.2	3.1	3.8	IE2
IM B35 / IM 2001			FS 80 M		11 kq		IP56			IEC/EN 60034		IEC, DIN, ISO, VDE, EN					

Locked rotor time (hot / cold) : 12.8 s | 19.8 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	60.0 / 71.0 dB(A) ²⁾	64.0 / 75.0 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.0011 kg m ²		Vibration severity grade	A
Bearing DE NDE	6004 Z C3	6004 Z C3	Insulation	180(H) to 180(H)
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	Preloaded bearing DE		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	1.5 mm²
Material of terminal box	Aluminium	Cable diameter from ... to ...	9.0 mm - 17.0 mm
Type of terminal box	TB1 E00	Cable entry	1xM25x1,5
Contact screw thread	M4	Cable gland	1 plug

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



Motor type : 1AV2083A

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Special design

F74	Sheet steel fan cowl	H22	IP 56 degree of protection
F76	Metal external fan	N11	Temperature class 180(H), and coolant temperature max. 60°C
H07	Stainless steel screws and bolts (outside the motor)		

Notes:

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