

SIMOTICS GP - 80 M - IM B35 - 2p

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

Safe Area

-/-

U	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	$\eta^{(3)}$			$\cos\varphi^{(3)}$			I_A/I_N	M_A/M_N	M_K/M_N	IE-CL
[V]								4/4	3/4	2/4	4/4	3/4	2/4	I_I/I_N	T_I/T_N	T_B/T_N	
DOL duty (S1) - 155(F) to 155(F)																	
220	Δ	50	0.75	-/-	2.85	2850	2.5	80.7	82.2	81.9	0.86	0.82	0.73	6.2	2.6	3.0	IE3
380	Y	50	0.75	-/-	1.64	2850	2.5	80.7	82.2	81.9	0.86	0.82	0.73	6.2	2.6	3.0	IE3
440	Y	60	0.86	-/-	1.70	3450	2.4	77.0	78.0	77.2	0.86	0.82	0.73	6.4	2.6	3.1	IE3
440	Y	60	0.75	-/-	1.52	3480	2.0	77.0	77.2	75.7	0.84	0.79	0.70	7.1	3.0	3.6	IE3
IM B35 / IM 2001			FS 80 M			IP56	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +45 °C / 1000 m										Locked rotor time (hot / cold) : 21.2 s 27.9 s							

Sound level (SPL / SWL) at 50Hz 60Hz	60 / 71 dB(A) ^{2) 3)}	64 / 75 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0011 kg m²		Thermal class	F
Bearing DE NDE	6004 2Z C3	6004 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)	11 kg
Grease nipple	-/-		Coating (paint finish)	Special paint finish, resistant to salt-laden air C4
Type of bearing	Preloaded bearing DE		Color, paint shade	RAL7030
Condensate drainage holes	With (standard)		Motor protection	(A) without (Standard)
External earthing terminal	With		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box position	top	Max. cross-sectional area	1.5 mm²
Material of terminal box	Aluminium	Cable diameter from ... to ...	9 mm - 17 mm
Type of terminal box	TB1 E00	Cable entry	1xM25x1,5
Contact screw thread	M4	Cable gland	1 gland

I_{r}/I_{n} = locked rotor current / current nominal	1) $L_{10\text{th}}$ according to DIN ISO 281 10/2010	3) Value is valid only for DOL operation with motor design IC411
M_r/M_n = locked rotor torque / torque nominal	2) at rated power / at full load	
M_b/M_n = break down torque / nominal torque		

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Responsible department IN LVM	Technical reference	Created by SPC	Approved by Created automatically	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents	
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E21	With EC type approval certificate according to LR (Lloyds Register), Great Britain, KT 45 °C, temperature class 155 (F) utilised to 155 (F)	N31	Increased air humidity/temperature with 60 to 100 g water per m3 air
H04	External grounding at housing	R15	One metal cable gland
H22	IP 56 degree of protection	S03	Special paint finish in sea air resistant C4

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