

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



Motor type : 1CD3204A

SIMOTICS XP - 200 L - IM B5 - 2p

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

Remarks **II 2G Ex db eb IIC T4 Gb**

Electrical data

-/-

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η ³⁾			cosφ ³⁾			I _A /I _N	M _A /M _N	M _K /M _N	IE-CL
								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 130(B)																	
230	Δ	50	30.00	-/-	93.00	2955	97.0	93.3	93.6	93.3	0.87	0.83	0.75	7.0	2.5	3.3	IE3
400	Y	50	30.00	-/-	53.00	2955	97.0	93.3	93.6	93.3	0.87	0.83	0.75	7.0	2.5	3.3	IE3
460	Y	60	30.00	-/-	47.00	3560	80.0	92.4	92.2	91.4	0.87	0.83	0.74	7.6	2.9	3.6	IE3

Converter duty (S9) - 155(F) to 155(F)																	
40	Y	5	1.84		38.5	270	65.3				0.81	Type of converter Voltage source converter, general (utilized to F)					
200	Y	25	14.3		52	1,455	93.5				0.87						
400	Y	50	31		55	2,955	99.9				0.87						
400	Y	75	31		53	4430	66.8				0.87						

IM B5 / IM 3001	FS 200 L	IP55	IEC/EN 60034
Environmental conditions : -20 °C - +40 °C / 1000 m		Locked rotor time (hot / cold) : 34.3 s 52.7 s	

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	76 / 84 dB(A) ^{2) 3)}	77 / 84 dB(A) ^{2) 3)}	Thermal class	F
Moment of inertia	0.1500 kg m ²		Duty type	S1
Bearing DE NDE	6312 C3	6312 C3	Direction of rotation	bidirectional
bearing lifetime			Frame material	cast iron
L _{10mh} F _{Rad} min for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Net weight of the motor	315 kg
Regreasing device	Without		Motor weight incl. options	315 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing DE		Color, paint shade	RAL7030
Condensate drainage holes	Without		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
External earthing terminal	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled
Vibration severity grade	A			

Terminal box

Terminal box position	top	Max. cross-sectional area	35 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	27 mm - 35 mm
Type of terminal box	TB1 L21	Cable entry	-/-
Contact screw thread	M6		

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) 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

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Special design

B44 Version for converter operation with voltage source converter with operation data utilisation thermal class F H70 Second outer earthing

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