

SIMOTICS SD - 250 M - IM B3 - 8p

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

Remarks

Safe Area

Electrical data

-/-

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	
DOL duty (S1) - 155(F) to 130(B)																	
230	Δ	50	30.00	-/-	106.00	739	390.0	92.7	93.2	92.9	0.77	0.72	0.61	6.8	2.3	2.5	IE4
400	Y	50	30.00	-/-	61.00	739	390.0	92.7	93.2	92.9	0.77	0.72	0.61	6.8	2.3	2.5	IE4
460	Y	60	36.00	-/-	64.00	888	385.0	92.4	92.9	92.7	0.77	0.73	0.63	6.6	2.3	2.5	IE3
IM B3 / IM1001			FS 250 M			IP55	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 19.9 s 31.7 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	58 / 72 dB(A) ^{2) 3)}	62 / 76 dB(A) ^{2) 3)}	External earthing terminal	(Standard) Yes	
Moment of inertia	1.1500 kg m²		Vibration severity grade	Grade A	
Bearing DE NDE	6214 ZC3	6214 ZC3	Thermal class	F	
permissible lateral force on (N) (N)	X ₀ : 5250	X _{0,5} : 4750	X _{max} : 4300	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	cast iron	
Lubricants	UNIREX N3		Net weight of the motor	398 kg	
Regreasing device	-/-		Coating (paint finish)	Standard paint finish C2	
Grease nipple	-/-		Color, paint shade	RAL7030	
Type of bearing	Locating bearing NDE		Motor protection	3 PTC thermistors - for tripping (2 terminals)	
Condensate drainage holes	(Standard) Yes		Method of cooling	IC411 - self ventilated, surface cooled	

Terminal box

Terminal box position	box at the top	Max. cross-sectional area	120 mm²
Material of terminal box	cast iron	Cable diameter from ... to ...	34 mm - 45 mm
Type of terminal box	TB4N01	Cable entry	2xM63x1,5 - 2xM20x1,5
Contact screw thread	6xM10	Cable gland	-/-

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) $L_{10\text{mh}}$ 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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