

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



Motor type : 1CV1310A

SIMOTICS SD - 315 S - IM B3 - 2p

Client order no.

Item-No.	Item-Name	Unit	Rate	Quantity	Amount
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Offer no.

Order no.

Consignment no.	
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Project	
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Remarks

Safe Area

Electrical data

-/-

U	Δ / Y	f	P	P	I	n	M	$\eta^{3)}$			$\cos\varphi^{3)}$			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_A/I_N	T_A/T_N	T_B/T_N	
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	110.00	-/-	198.00	2982	350.0	93.3	92.9	91.5	0.86	0.83	0.76	7.5	2.3	3.3	IE1
690	Y	50	110.00	-/-	115.00	2982	350.0	93.3	92.9	91.5	0.86	0.83	0.76	7.5	2.3	3.3	IE1
460	Δ	60	123.00	-/-	189.00	3582	330.0	93.0	92.3	90.4	0.88	0.87	0.80	8.3	2.5	3.3	IE1
IM B3 / IM 1001			FS 315 S			IP55	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1000 m										Locked rotor time (hot / cold) : 0 s 60.3 s							

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	80 / 94 dB(A) ^{2) 3)}	84 / 99 dB(A) ^{2) 3)}	External earthing terminal	With (standard)
Moment of inertia	1.2000 kg m²		Vibration severity grade	A
Bearing DE NDE	6316 C3	6316 C3	Thermal class	F
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad,min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	30 g 30 g 3000 h		Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	680 kg
Regreasing device	With (standard)		Coating (paint finish)	Standard paint finish C2
Grease nipple	M10x1 DIN 3404 A		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(A) without (Standard)
Condensate drainage holes	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box


Terminal box position	top	Max. cross-sectional area	150 mm²
Material of terminal box	cast iron	Cable diameter from ... to ...	38 mm - 45 mm
Type of terminal box	TB1 Q01	Cable entry	2xM63x1,5
Contact screw thread	M12	Cable gland	2 plugs

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
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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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