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

Motor type : 1CV1314B **SIMOTICS SD - 315 L - IM B3 - 4p**

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	project
Remarks		

Electrical data

Safe Area

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η 3) 4/4	η 3) 3/4	η 3) 2/4	cosφ 3) 4/4	cosφ 3) 3/4	cosφ 3) 2/4	I_A/I_N I_I/I_N	M_A/M_N T_I/T_N	M_K/M_N T_B/T_N	IE-CL
400	Δ	50	160.00	-/-	285.00	1486	1030.0	93.8	93.9	93.5	0.86	0.84	0.76	7.2	2.7	2.7	IE1
690	Y	50	160.00	-/-	166.00	1486	1030.0	93.8	93.9	93.5	0.86	0.84	0.76	7.2	2.7	2.7	IE1
460	Δ	60	184.00	-/-	285.00	1786	980.0	94.5	94.5	94.1	0.86	0.85	0.78	7.3	2.7	2.6	IE1

IM B3 / IM 1001	FS 315 L	940 kg	IP55	IEC/EN 60034	IEC, DIN, ISO, VDE, EN

Environmental conditions : -20 °C - +40 °C / 1,000 m

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	76.0 / 90.0 dB(A) 2)	75.0 / 89.0 dB(A) 2)
Moment of inertia	2.9000 kg m²	
Bearing DE | NDE	6319 C3	6319 C3
bearing lifetime		
L_{10mh} $F_{Rad\ min}$ for coupling operation 50|60Hz 1)	40000 h	32000 h
Relubrication interval/quantity (AS|BS)	40 g | 40 g 6000 h	
Lubricants	Unirex N3	
Regreasing device	Yes (standard)	
Grease nipple	M10x1 DIN 3404 A	
Type of bearing	Locating bearing NDE	
Condensate drainage holes	Yes (standard)	

External earthing terminal	Yes (standard)
Vibration severity grade	A
Insulation	155(F) to 130(B)
Duty type	S1
Direction of rotation	bidirectional
Frame material	cast iron
Coating (paint finish)	Standard paint finish C2
Color, paint shade	RAL7030
Motor protection	(A) without (Standard)
Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	240.0 mm²
Material of terminal box	cast iron	Cable diameter from ... to ...	38.0 mm - 45.0 mm
Type of terminal box	TB1 Q01	Cable entry	2xM63x1,5
Contact screw thread	M12	Cable gland	2 plugs

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	
DI MC LVM		DT Configurator		*Technical data are subject to change! There may be discrepancies between calculated and rating plate values.*

SIEMENS

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