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

Motor type : 1CV4317B **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	315.00	-/-	570.00	1490	2000.0	96.7	96.7	96.3	0.83	0.80	0.70	8.5	3.2	3.5	IE4
690	Y	50	315.00	-/-	330.00	1490	2000.0	96.7	96.7	96.3	0.83	0.80	0.70	8.5	3.2	3.5	IE4
460	Δ	60	315.00	-/-	490.00	1792	1680.0	96.8	96.6	95.9	0.83	0.78	0.69	9.4	3.4	3.7	IE4
460	Δ	60	360.00	-/-	560.00	1790	1920.0	96.2	96.1	95.6	0.84	0.80	0.72	8.3	3.0	3.2	IE3

IM B3 / IM1001		FS 315 L		IP55		IEC/EN 60034								

Environmental conditions : -20 °C - +40 °C / 1000 m

Locked rotor time (hot / cold) : 25 s | 41 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	75 / 90 dB(A) 2)	81 / 95 dB(A) 2)	
Moment of inertia	5.3900 kg m²		
Bearing DE | NDE	6319 C4	6319 C4	
permissible lateral force on (N) *(N)*	x_0: 9300	$x_{0,5}$: N/A	x_{max}: 8000
bearing lifetime			
L_{10mh} $F_{Rad\ max}$ according catalogue 50|60Hz 1)	40000 h	32000 h	
Relubrication interval/quantity DE | NDE	40 g | 40 g 6000 h		
Lubricants	UNIREX N3		
Regreasing device	(Standard) Flat type lubricating nipple acc. DIN 3404		
Grease nipple	M10x1 DIN 3404 A		
Type of bearing	Locating bearing DE		
Condensate drainage holes	(Standard) Yes		

External earthing terminal	(Standard) Yes
Vibration severity grade	Grade A
Insulation	155(F) to 130(B)
Duty type	S1
Direction of rotation	bidirectional
Frame material	cast iron
Net weight of the motor	1560 kg
Coating (paint finish)	Special paint finish C3
Color, paint shade	RAL7030
Motor protection	3 PTC thermistors - for tripping (2 terminals)
Method of cooling	IC411 - self ventilated, surface cooled
'SIMOTICS Connect 400' in IP54	Yes

Terminal box

Terminal box position	box at the angle 45°, socket right	Max. cross-sectional area	240 mm²
Material of terminal box	cast iron	Cable diameter from ... to ...	42 mm - 54 mm
Type of terminal box	TB3Q61	Cable entry	2xM63x1,5 - 2xM20x1,5
Contact screw thread	6xM12	Cable gland	4 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.*

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datasheet		released			
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Special design

G81	Installation of SIMOTICS CONNECT 400	L51	Bearing insulation NDE

Notes:

responsible dep.	technical reference	created by	approved by	*Technical data are subject to change! There may be discrepancies between calculated and rating plate values.*
DI MC LVM		DT Configurator		

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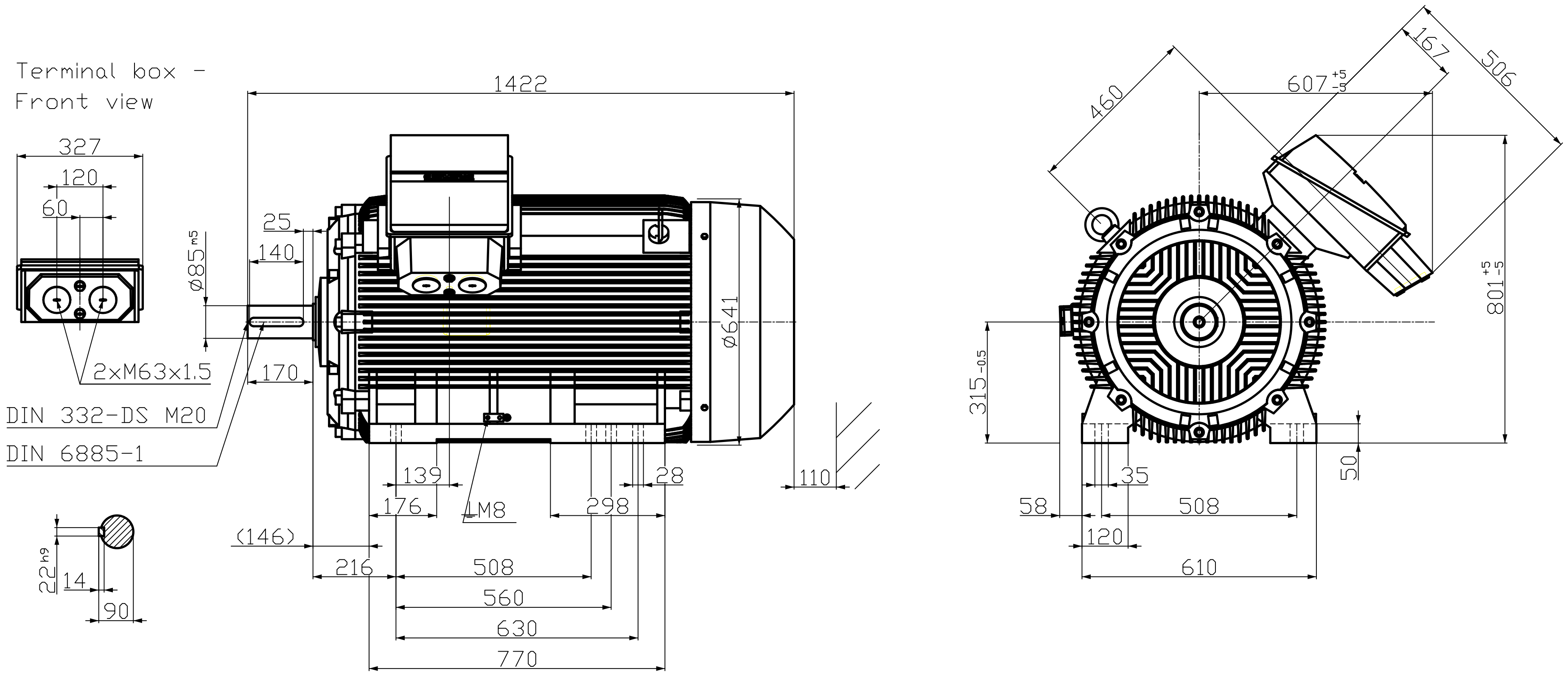

Tolerance	Surface	Material	Weight	Scale
			-	mm

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G81+L51

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Dimensional drawing
MaÇzeichnung

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