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

Motor type: 7CV3162B **SIMOTICS SD - 160M - IM B3 - 4 p - 11 / 11 kW - IE3 / IE2 - 50/60 Hz**

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

Electrical data

U [V]±10%	Δ / Y	f [Hz]±5%	P [kW]	P [hp]	I [A]	n [1/min]	M [kfg.m]	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
Motordaten / *Motor Data*																		
415	Δ	50	11.00	-/-	20.00	1469	7.0	72.0	91.6	91.6	90.6	0.83	0.78	0.69	7.5	3.0	3.5	IE3
IM B3 / IM 1001		FS 160M	120 kg		IS 12615 / IEC 60034-1													
Environmental conditions : -20 °C - +50 °C / 1,000 m									Locked rotor time (hot / cold) : 25 s | 33 s									

Mechanical data

Sound pressure level 50Hz | 60Hz	64.0 dB(A)	67.0 dB(A)
Moment of inertia | Rotor GD²	0.0623 kg m² | 0.2492 kgf.m²	
Bearing DE | NDE	6309 C3	6309 C3
Bearing lifetime	50,000 h	
Type of bearing	Locating (fixed) bearing, NDE	
Relubrication interval/quantity (AS|BS)	10.0 g | 10.0 g 8000 h	
Type of construction	IM B3 / IM 1001	
Degree of protection	IP55	
Lubricants	Esso Unirex N3	
Regreasing device	Yes (standard)	
Grease nipple	M10x1 DIN 3404 A	
Condensate drainage holes	Yes	
External earthing terminal	Yes (standard)	

Vibration severity grade	A (Standard)
Insulation	155(F) utilized to 130(B)
Duty type	S1
Direction of rotation	Bidirectional
Frame material	Cast iron
Forced ventilation motor details	- / -
Net weight of the motor (IM B3)	120 kg
Rotor weight in kg	27 kg
Data of anti condensation heating	-/- V, -/- W
Coating (paint finish)	Standard paint finish
Color, paint shade	RAL7030
Motor protection	(A) without
Method of cooling	IC411 - Self ventilated, surface cooled

Terminal box

Terminal box position	Top
Material of terminal box	Aluminium
Type of terminal box	TB1 J04
Contact screw thread	M5
Max. cross-sectional area	25.0 mm²

Cable diameter from ... to ...	19.0 mm - 28.0 mm
Cable entry	2xM40x1,5
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

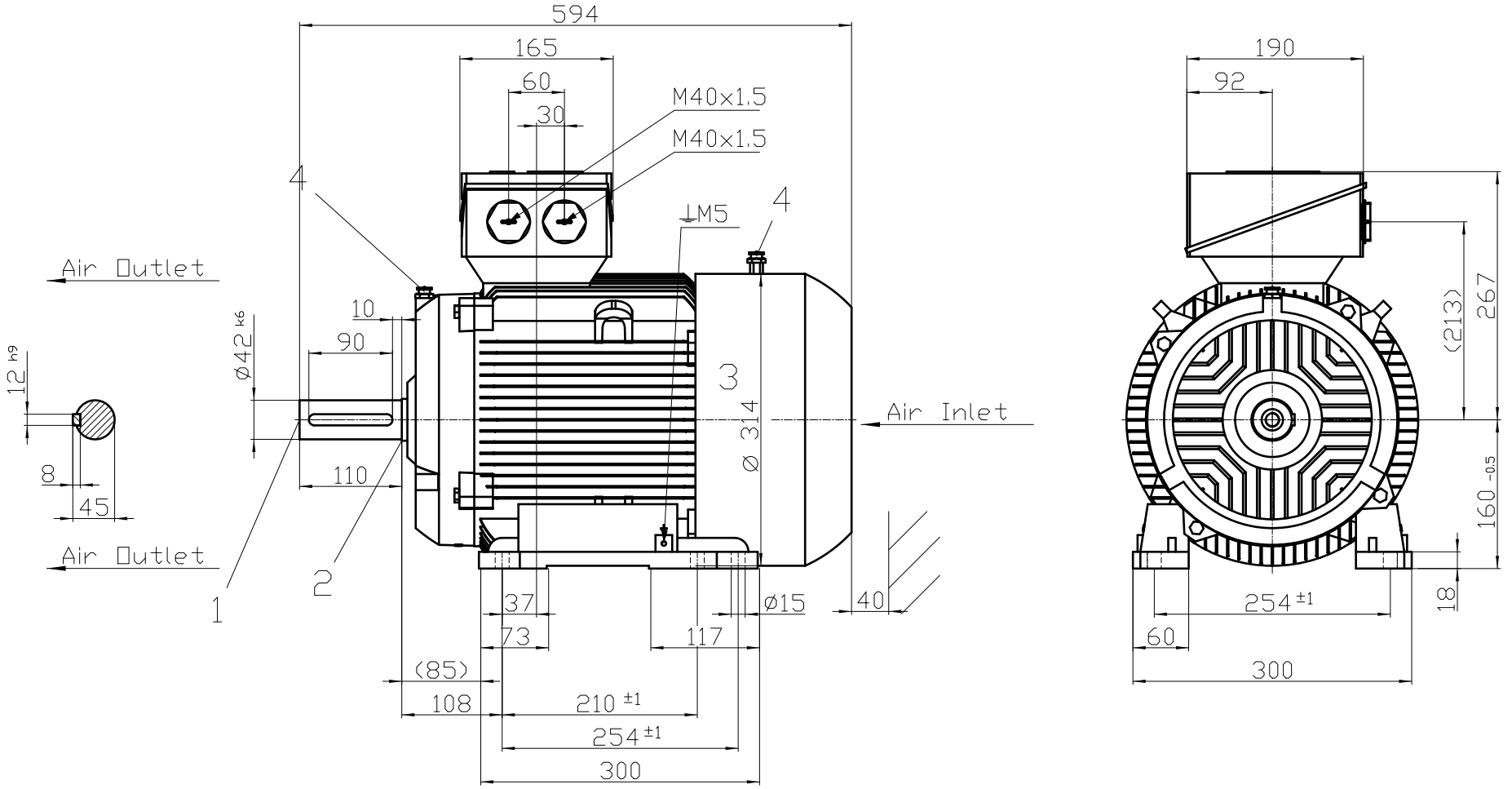
Technical data are subject to change! There may be discrepancies between calculated and rating plate values.

responsible dep.	technical reference	created by	approved by	
DI MC LVM		DT Configurator		

SIEMENS

document type	document status	customer
datasheet	released	
title	**document number**	
1LE7503-1DB23-5AA4		

rev.	creation date	language	Page
01	2019-10-07	en	1/1



1) Protected centre hole M16x36
2) Relief groove as per DIN509 / IS:3428
3) Measured across screw heads
4) Grease Nipple M10x1 as per DIN3404/IS:4009

Tolerance DIN EN 50347 Untolerated Dimensions- ISO 2768v / IS2102v	Surface	Material	Weight -	Scale mm
FS.:160M; Const.:IMB3 1LE7503-1DB23-5AA4 -	Author Creator DTK Approval Department	Dimensional drawing		
SIEMENS	Change Order Doc State 27/1/21 Revision Index RS	MLFB Item No Doc No	Doc Type Paper Size A4 Language en	
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