SIEMENS

Data sheet for three-phase Squirrel-Cage-Motors

Converter Operation

MLFB-Ordering data: **1LE7501-2DB23-5AA4-Z**
F70+L53

Frame size: **280M**

Client order no.:
Order no.:
Offer no.:
Remarks:

Item no.:
Consignment no.:
Project:

U [V]±10%	Δ / Y	f [Hz]±5%	P [kW]	I [A]	n [1/min]	M [kgf.m]	M [Nm]	NOM. EFF at ... load [%] * 4/4	3/4	2/4	Power factor at ... load * 4/4	3/4	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
415	Δ	50	90.00	160.00	1485	59.0	579.0	94.2	94.2	94.0	0.83	0.81	0.72	7.0	3.0	3.5	IE2

Data subject to tolerance as per IS 12615 / IEC 60034-1	SF: 1.00 / *sinusoidal feed
Environmental conditions : -20 °C to +50 °C / 1000.0 m	locked rotor withstand time (hot / cold) : 14.0 s / 26.0 s

Mechanical data

Sound pressure level 50Hz | 60Hz	73 dB(A)	80 dB(A)
Type of construction	IM B3 / IM 1001	
Bearing DE | NDE	6317 C3	6317 C3 INS
Type of bearing	Locating (fixed) bearing, NDE	
Lubricants	Esso Unirex N3	
Regreasing device	Yes (standard)	
Grease nipple	M10x1 DIN 3404 A	
Relubrication interval/quantity (AS|BS)	30 g | 30 g 8000 h	
Degree of protection	IP55	
External earthing terminal	Yes (standard)	
Vibration severity grade	A (Standard)	
Insulation	155(F) utilized to 155(F)	
Duty type	S1	
Direction of rotation	Bidirectional	
Frame material	Cast iron	
Data of anti condensation heating	-/-	
Coating (paint finish)	Standard paint finish	
Color, paint shade	RAL7030	
Motor protection	(A) without	
Method of cooling	IC416 - Separately ventilated, surface cooled	
Forced ventilation motor details	71 Frame, 1LE7, 0.37kW,4P, IE3	
Weight in kg, without optional accessories	635 kg	
Rotor weight in kg	188,0 kg	
Moment of inertia | Rotor GD²	1.6195 kg m²	6.478 kgf.m²

Terminal box

Terminal box position	Top
Material of terminal box	Cast iron
Type of terminal box	TB1 N01
Contact screw thread	M10
Max. cross-sectional area	120.0 mm²
Cable diameter from ... to ...	34.0 mm - 42.0 mm
Cable entry	2xM63x1,5
Cable gland	2 Plugs

Special design

F70 Mounting of separately driven fan
L53 Insulated bearing NDE

Notes

I_A/I_N = locked rotor current / nominal current
M_K/M_N = break down torque / nominal torque
M_A/M_N = locked rotor torque / nominal torque