SIEMENS

Data sheet for three-phase Squirrel-Cage-Motors

MLFB-Ordering data: **1LE7501-1DB43-5AA4**

Frame size: **160L**

Client order no.: Item no.:
Order no.: Consignment no.:
Offer no.: Project:
Remarks:

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	15.00	27.00	1455	10.0	98.0	90.7	90.7	90.3	0.84	0.79	0.68	7.0	2.9	2.9	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) : 9.0 s / 16.0 s

Mechanical data

Sound pressure level 50Hz | 60Hz		68 dB(A)	71 dB(A)
Type of construction		IM B3 / IM 1001	
Bearing DE | NDE		6309 C3	6309 C3
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)		10 g | 10 g 8000 h	
Degree of protection		IP55	
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	
Data of anti condensation heating		-/-	
Coating (paint finish)		Standard paint finish	
Color, paint shade		RAL7030	
Motor protection		(A) without	
Method of cooling		IC411 - Self ventilated, surface cooled	
Forced ventilation motor details		- / -	
Weight in kg, without optional accessories		97 kg	
Rotor weight in kg		26 kg	
Moment of inertia	Rotor GD²	0.06062 kg m²	0.24248 kgf.m²

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