SIEMENS

Data sheet for three-phase Squirrel-Cage-Motors

MLFB-Ordering data: 1LE7503-1AA53-5AA4

Frame size: 100L

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	3.70	6.90	2865	1.3	12.3	87.8	87.8	87.0	0.85	0.80	0.68	7.5	2.3	3.0	IE3

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) : 6.0 s / 12.0 s	

Mechanical data			Terminal box	
Sound pressure level 50Hz | 60Hz	70 dB(A)	75 dB(A)	Terminal box position	Top
Type of construction	IM B3 / IM 1001		Material of terminal box	Aluminium
Bearing DE | NDE	6206 2ZC3	6206 2ZC3	Type of terminal box	TB1 F04
Type of bearing	Locating (fixed) bearing, NDE		Contact screw thread	M5
Lubricants	Esso Unirex N3		Max. cross-sectional area	16.0 mm²
Regreasing device	- / -		Cable diameter from ... to ...	11.0 mm - 21.0 mm
Grease nipple	- / -		Cable entry	2xM32x1,5
Bearing lifetime	50000 h		Cable gland	2 Plugs
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	37 kg			
Rotor weight in kg	6 kg			
Moment of inertia	Rotor GD²	0.0039 kg m²	0.0156 kgf.m²	

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