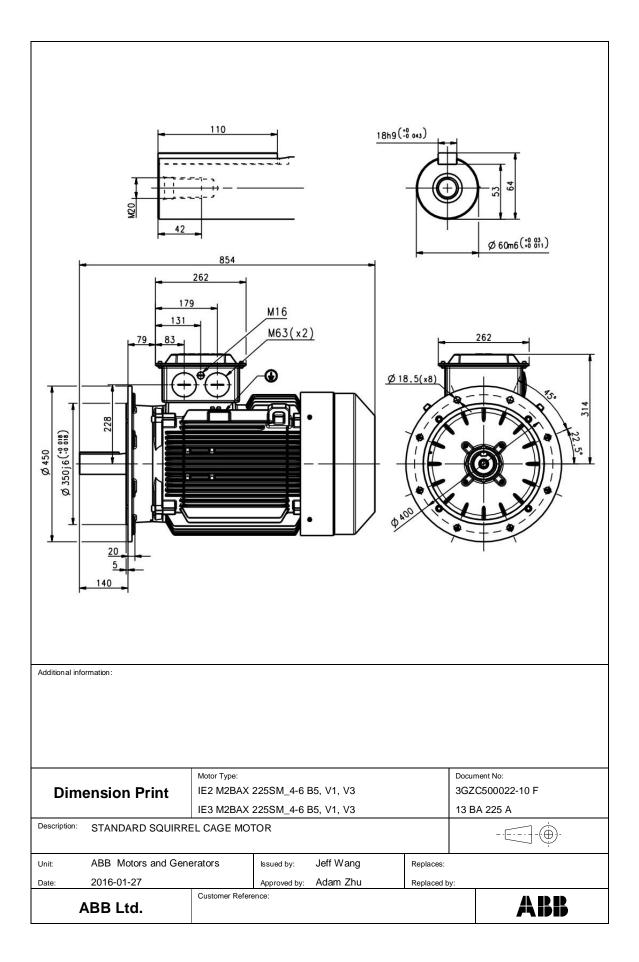
IEC I	LV Motors	Technical D	ata Sheet			ABB		
		Location						
Department/Author Customer name Gugan E Our ref. Rev/Changed by Trielectric International FZE A		Customer ref			Item name 1.00006			
		Rev/Changed by A	Date of issue Saving ident 9/25/2023 untitled.xlsm			Pages 1(3)		
No.	Definition		Data	Unit	Remarks			
1	Product		TEFC, 3-phase, squirrel cage induction motor					
2	Product code			3GBA 222 210-BDDIN Calc. ref.				
3	Type/Frame		M2BAX 225S	MA 4				
4	Mounting		IM3001, B5(fla	ange)				
5	Rated output P _N		37	kW				
6	Service factor		1					
7	Type of duty		S1 100%					
8	Rated voltage U _N		400	VD	±5%			
9	Rated frequency f _N		50	Hz	±2%			
10	Rated speed n _N		1480	r/min				
11	Rated current I _N		71.1	A				
12	Ctorting arrest 1.1		75					
13	Starting current I _s /I _N		7.5	Nim				
14	Nominal torque T _N	/T	239	Nm				
15	Locked rotor torque T		2.8					
16 17	Maximum torque T _{max}	/ ' N	3.2					
17								
10	Load characteristics		Load %	Current A	Efficiency %	Power factor		
19	PLL determined from	residual loss	100	71.1	93.9 / IE3	0.8		
20		10000	75	56.7	93.9 / IE3 94.2	0.8		
20			50	43.8	94.2	0.75		
21				73.0	33.0	0.05		
23	Thermal withstand tim	ne hot	18	S				
23	Thermal withstand tim		29	S				
25	Insulation class / Tem		F/B	~				
26	Ambient temperature		50	°C				
27	Altitude		1000	m.a.s.l.				
28	Degree of protection		IP55					
29	Cooling system		IC411					
30	Bearing DE/NDE	Bearing DE/NDE		6313-2Z/C3 - 6210-2Z/C3				
31	Sound pressure level	(LP dB(A) 1m)	80	dB(A)	at no-load			
32	Moment of inertia J =	¼ GD2	0.427	kg-m2				
33	Position of terminal bo	X	Тор					
34	Direction of rotation		Bi-directional					
35	Weight of rotor		78	kg				
36	Total weight of motor		274	kg				
37	Paint shade		Munsell Blue					
38	Cable size							
39	Vibration		As Per IS 120	75				
40								
41								
42								
43 44								
44								
45 Ex-mot	tors							
46								
47								
48								
	Variant Codes / Defin	ition	1		1			
49								
50								
51								
52								
Remark	(S:							

All performance values are subject to IS/IEC tolerances



Motors in brief

General performance IE3 premium efficency cast iron motors in brief

Size		160	180	200	225	250			
	Material	Cast Iron Grade 200:ISO 185							
Stator	Paint colour shade	Munsell blue 8B 4.5/3.25 / NCS 4822 B05G							
	Surface Treatment	C3 medium according to ISO / EN 12944-5							
		Integrated with stator							
Feet	Material	Cast iron grade 200 : ISO 185							
	Material	Cast iron grade 200 : ISO 185							
Bearing end shields	Paint colour shade	Munsell blue 8B 4.5/3.25/NCS 4822 B05G							
5	Surface Treatment	C3 medium according to ISO / EN 12944-5							
	D-end	6209-2Z/C3	6310-2Z/C3	6312-2Z/C3	6313-2Z/C3	6315-2Z/C3			
Bearings	N-end	6209-2Z/C3	6209-2Z/C3	6209-2Z/C3	6210-2Z/C3	6212-2Z/C3			
Axially-locked	Inner Bearing Cover	As standard, locked at D-end							
Bearing seals	Axial seal standard, radial on request								
Measuring nipple	Not included								
Lubrication	Permanently lubricated shielded bearings								
Rating plate	Material	Aluminium							
Tamainal Dava	Frame material	Sheet of Steel, cold rolled							
Terminal Box	Cover material	Sheet of Steel, cold rolled							
	Cover screws material	Steel 8.8							
	Cable entries	2xM40, 1xM16		2xM50, 1xM16					
Connections	Cable Sizes	2Rx3Cx70mm2		2Rx3Cx120mm2					
	Terminal Stud Size ———— Terminals	M6 M10							
 Fan	Material	6 terminals for connection, cable lugs (not included)							
		Polypropylene, Reinforced with 20% glass fibre							
For Course	Material	Sheet of steel, cold rolled							
Fan Cover	Paint Colour shade 	Munsell blue 8B 4.5/3.25/NCS 4822 B05G							
		C3 medium according to ISO/EN 12944-5							
Ctator winding	Material 	Copper							
Stator winding	Winding protection	Insulation class F, Temperature rise class B unless otherwise stated.							
	Material								
Rotor winding	Pressure diecast aluminium								
Balancing method	Half Key Balancing as Standard								
Key ways	Open Key Way								
Enclosure		IP 55, Higher protection on request							
Cooling method	IC 411								
Drain holes	Drain holes with closable plastic plugs, open on delivery								
Lifting lugs		Integrated w	ith the stator						