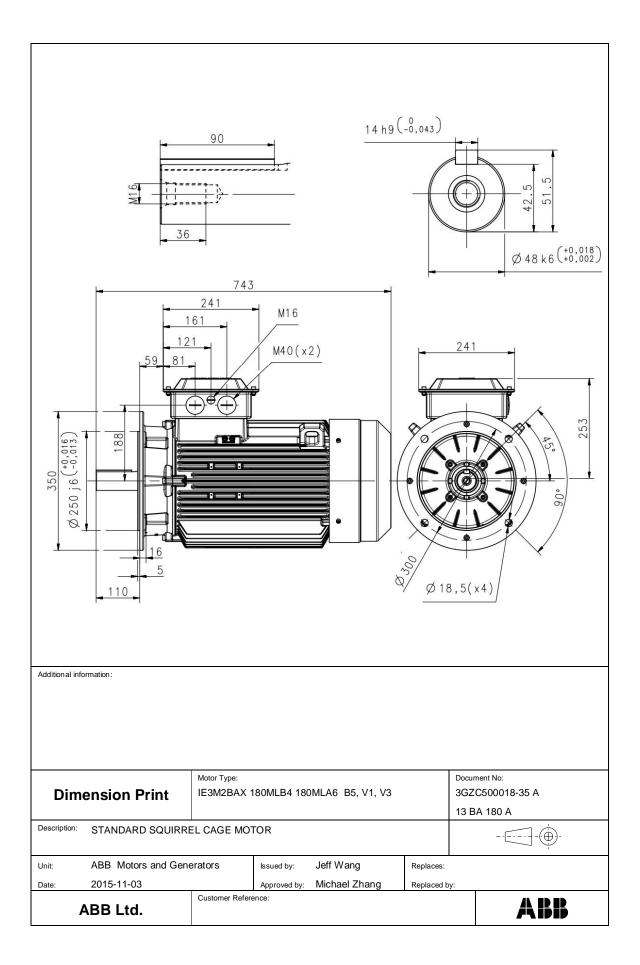
IEC LV Motors		Technical D	ARR					
		Project	Location					
Department/Author Customer name Gugan E		Customer ref			Item name 1.00004			
Dur ref.	ric International FZE	Rev/Changed by	Date of issue 9/25/2023	Saving ident untitled.xlsm		Pages 1(3)		
No.	Definition		Data	Unit	Remarks	.(0)		
1	Product		TEFC, 3-phase, squirrel cage induction motor					
2	Product code			3GBA 182 420-BDDIN Calc. ref.				
3	Type/Frame		M2BAX 180MLB 4			3GZH021018-17		
	Mounting		IM3001, B5(fla					
5	Rated output P _N		22	kŴ				
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		1475	r/min				
11	Rated current I _N		43.1	A				
12	0 , ,,							
13	Starting current I _s /I _N		7.5					
14	Nominal torque T _N	-	142	Nm				
	Locked rotor torque T		2.8					
	Maximum torque T _{max}	/1 _N	3.4		_			
17								
18	Lood ob		1 == 1.0/	0		Damas (+)		
10	Load characteristics	readual lace	Load %	Current A	Efficiency %	Power factor		
19	PLL determined from	residual Ioss	100	43.1	93.0 / IE3	0.79		
20			75 50	34.4	93.5	0.74		
21 22			50	26.7	93	0.64		
22	Thermal withstand tim	ne hot	11	6				
23	Thermal withstand tin		17	<u> </u>				
24	Insulation class / Terr		F/B	3				
	Ambient temperature	iperature ciass	50	°C				
20	Altitude		1000	 m.a.s.l.				
28	Degree of protection		IP55					
29	Cooling system		IC411					
	Bearing DE/NDE		6310-2Z/C3 - 6	209-2Z/C3				
31	Sound pressure level	(LP dB(A) 1m)	80	dB(A)	at no-load			
	Moment of inertia J =		0.243	kg-m2				
	Position of terminal bo		Тор					
34	Direction of rotation	-	Bi-directional					
-	Weight of rotor		61	kg				
	Total weight of motor		205	kg				
37	Paint shade		Munsell Blue					
38	Cable size							
39	Vibration		As Per IS 120	75				
40								
41								
42								
43								
44								
45								
Ex-mot	ors							
46								
47								
48	Variant Codes / Defin	vition	1					
49	Variant Codes / Defir	IIIIOH						
49 50								
50								
52								
52								
lemark	S:							
		15:2018, IEC 60034-3	00 4 004 4					

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	- Pressure diecast aluminium							
Rotor winding									
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						