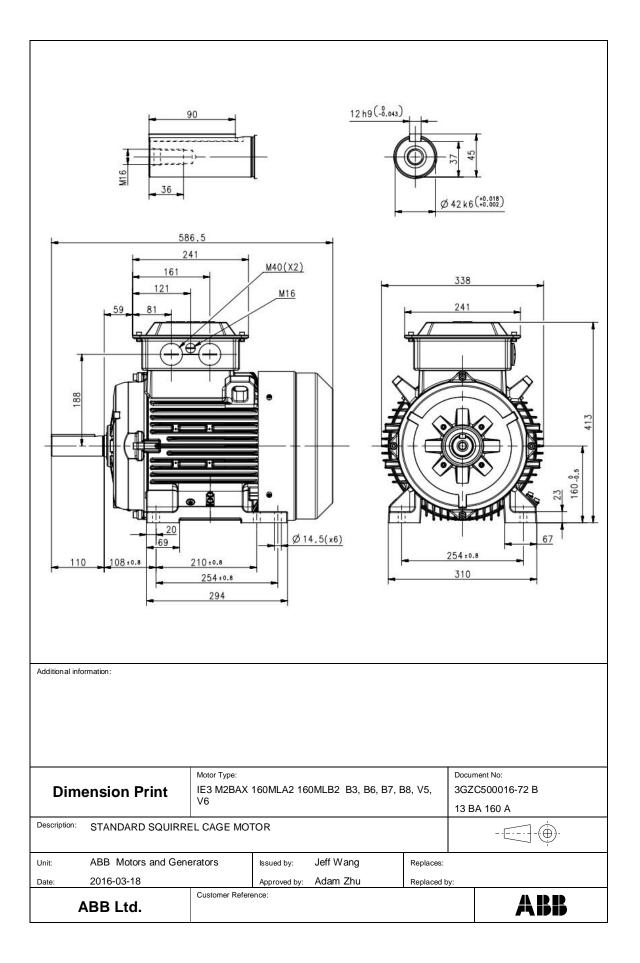
IEC I	_V Motors	Technical D	ata Sheet			ARR		
		Project	Location					
Department/Author Customer name Gugan E		Customer ref			Item name 1.00001			
Dur ref.	ric International FZE	Rev/Changed by A	Date of issue 9/25/2023	Saving ident untitled.xlsm		Pages 1(3)		
No.	Definition		Data	Unit	Remarks	1(0)		
1	Product		TEFC, 3-phase, squirrel cage induction motor					
2	Product code		3GBA 161 410	Calc. ref.	3GZH021016-33			
3	Type/Frame		M2BAX 160MLA 2			0021102101000		
4	Mounting		IM1001, B3(fo					
5	Rated output P _N		11	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		2935	r/min				
11	Rated current I _N		19.9	A				
12	Storting ourset 1 //		77					
13	Starting current I _s /I _N Nominal torque T _N		7.7 36	Nm				
14 15	Locked rotor torque T	_/T.,	2.4	INITI	_			
16	Maximum torque T		3.2					
17	maximum torque 1 _{max}	7 ' N	J.2					
18								
	Load characteristics		Load %	Current A	Efficiency %	Power factor		
19	PLL determined from	residual loss	100	19.9	91.2 / IE3	0.87		
20			75	15.5	91.5	0.84		
21			50	11.5	90.8	0.76		
22								
23	Thermal withstand tin		16	S				
24	Thermal withstand tin		26	S				
25	Insulation class / Terr	perature class	F/B					
26	Ambient temperature		50	°C				
27	Altitude		1000	m.a.s.l.				
28	Degree of protection		IP55					
29				IC411 6209-2Z/C3 - 6209-2Z/C3				
30 31	Bearing DE/NDE Sound pressure level	$(D d B(\Lambda) 1 m)$	85	dB(A)	at no lood			
31	Moment of inertia J =		0.057	kg-m2	at no-load			
33	Position of terminal be		Top	Ng-IIIZ				
34	Direction of rotation	~	Bi-directional	,				
35	Weight of rotor		26	kg	_			
	Total weight of motor		118	kg				
37	Paint shade		Munsell Blue	<u> </u>				
38	Cable size							
39	Vibration		As Per IS 120	75				
40								
41								
42								
43								
44								
45 Ex-mot	ore							
=x-mot 46	013							
40								
48					_			
	Variant Codes / Defir	nition	1		1			
49								
50								
51								
52								
emark	···							
	able standards: IS 126							

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						