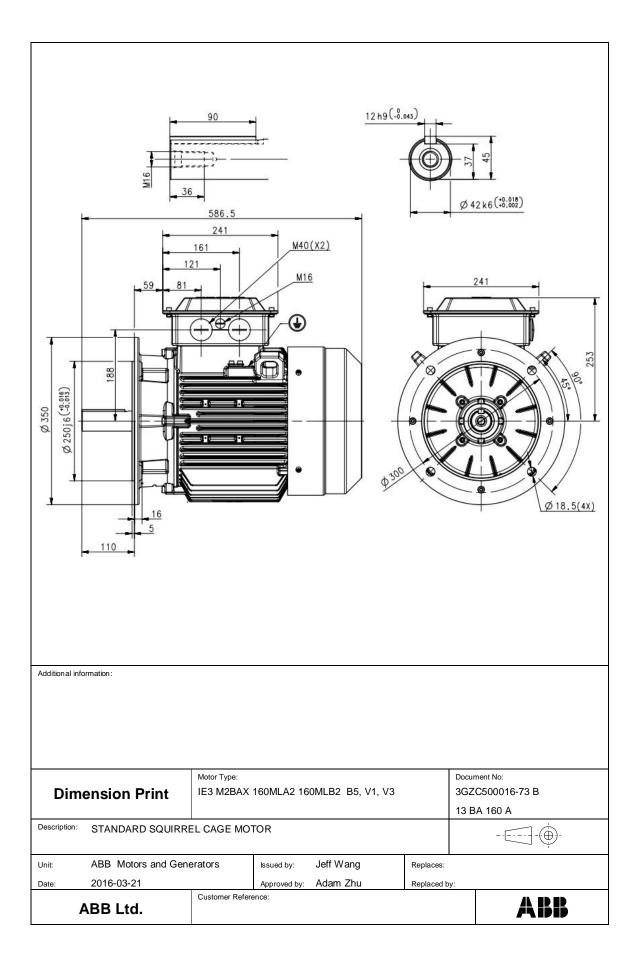
Sugan IDur ref.TrielectiNo.123456	ric International FZE Definition Product	Project Customer name Rev/Changed by		Location					
Sugan IDur ref.TrielectiNo.123456	E ric International FZE Definition Product								
Trielection   1   2   3   4   5   6	Definition Product	Rev/Changed by	Customer ref			Item name 1.00001			
1 2 3 4 5 6	Product	Α	Date of issue Saving ident 9/25/2023 untitled.xlsm			Pages 1(3)			
1 2 3 4 5 6			Data	Unit	Remarks				
3 4 5 6	Draduat aada	Product		TEFC, 3-phase, squirrel cage induction motor					
4 5 6	Product code	uct code		3GBA 161 410-BDDIN Calc. ref.					
4 5 6	Type/Frame		M2BAX 160M	LA 2					
6	Mounting		IM3001, B5(fla	ange)					
	Rated output P <sub>N</sub>		11	kW					
	Service factor		1						
	Type of duty		S1 100%						
	Rated voltage U <sub>N</sub>		400	VD	±5%				
9	Rated frequency f <sub>N</sub>		50	Hz	±2%				
10	Rated speed n <sub>N</sub>		2935	r/min					
	Rated current I <sub>N</sub>		19.9	A					
12	0				-				
13	Starting current I <sub>s</sub> /I <sub>N</sub>		7.7	N1					
14	Nominal torque T <sub>N</sub>	T	36	Nm					
	Locked rotor torque Ts		2.4						
	Maximum torque T <sub>max</sub> /	I <sub>N</sub>	3.2						
17									
18	Lood oborostariatics			Current A	Efficiency 0/	Dower feater			
	Load characteristics PLL determined from r	osidual losa	Load % 100	Current A 19.9	Efficiency % 91.2 / IE3	Power factor 0.87			
19 20	PLL determined from r	esidual loss	75	19.9	91.2 / IE3 91.5	0.87			
20			50	11.5	90.8	0.84			
21			50	11.5	30.0	0.70			
	Thermal withstand time	e hot	16	S					
	Thermal withstand time		26	S					
	Insulation class / Tem		F/B	5					
	Ambient temperature		50	°C					
	Altitude		1000	m.a.s.l.					
	Degree of protection		IP55	11.0.0.1.					
	Cooling system		IC411						
	Bearing DE/NDE		6209-2Z/C3 - 6209-2Z/C3						
	Sound pressure level (	LP dB(A) 1m)	85	dB(A)	at no-load				
	Moment of inertia $J = 1$		0.057	kg-m2					
	Position of terminal bo		Тор						
	Direction of rotation		<b>Bi-directional</b>						
	Weight of rotor		26	kg					
36	Total weight of motor		118	kg					
37	Paint shade		Munsell Blue						
	Cable size								
	Vibration		As Per IS 120	75					
40									
41									
42									
43									
44									
45									
Ex-moto	ors								
46									
47									
48	Variant Codes / Defini	tion	1		1				
49	vanani Coues / Defini	uon							
49 50									
51									
52									
Remarks	s: ble standards: IS 1261								

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								
	Aluminium								
Rating plate	Material	Sheet of Steel, cold rolled							
Tamainal Dava	Frame material	Sheet of Steel, cold rolled							
Terminal Box	Cover material	Steel 8.8							
	Cover screws material								
	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 Insulation class F, Temperature rise class B unless otherwise stated.							
Stator winding	Winding protection	-							
	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						