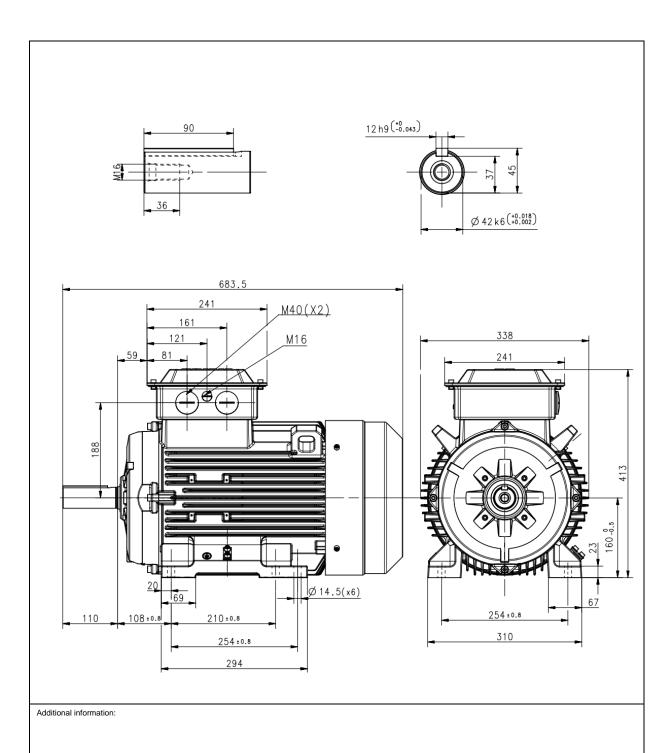
IEC LV Motors Technical Data Sheet Project Location Department/Author Gugan E Item name 1.00002 Customer name Customer ref Our ref. Rev/Changed by Date of issue Saving ident Pages Trielectric International FZE 9/25/2023 untitled.xlsm 1(3) Definition No. Data Unit Remarks TEFC, 3-phase, squirrel cage induction motor Product Product code 3GBA 162 420-ADDIN Calc. ref. 3GZH021016-38 Type/Frame 3 M2BAX 160MLB 4 IM1001, B3(foot) Mounting Rated output P_N 5 15 6 Service factor S1 100% Type of duty 8 Rated voltage U_N 400 VD ±5% 9 Rated frequency f_N 50 ±2% Hz Rated speed n_N 10 1470 r/min 11 Rated current I_N 29.9 Α 12 13 Starting current I_s/I_N Nominal torque T_N 97 Nm 14 15 Locked rotor torque T_S/T_N 2.6 Maximum torque T_{max}/T_N 3.4 16 17 18 Efficiency % Load % Current A Power factor Load characteristics PLL determined from residual loss 100 92.1 / IE3 19 29.9 8.0 0.74 20 75 23.8 92.2 21 50 18.5 91.3 0.64 22 Thermal withstand time hot 23 13 s 24 Thermal withstand time cold 22 s 25 Insulation class / Temperature class F/B 26 Ambient temperature 50 °C 1000 27 Altitude m.a.s.l. 28 Degree of protection IP55 Cooling system IC411 29 30 Bearing DE/NDE 6209-2Z/C3 - 6209-2Z/C3 Sound pressure level (LP dB(A) 1m) dB(A) at no-load Moment of inertia J = 1/4 GD2 0.135 kg-m2 33 Position of terminal box Тор Direction of rotation Bi-directional 35 Weight of rotor 45 kg 36 Total weight of motor 159 Paint shade Munsell Blue 37 38 Cable size 39 Vibration As Per IS 12075 40 41 42 43 44 45 Ex-motors 46 47 48 Variant Codes / Definition **Option** 49 50 51 52 Remarks: Applicable standards: IS 12615:2018, IEC 60034-30-1:2014



Dimension Print		Motor Type: IE3 M2BAX B7, B8, V5,	160MLC2 16 V6	Document No: 3GZC500016-57 D		
Description:	STANDARD SQUIRRE					
Unit:	ABB Motors and Generators		Issued by:	Jeff Wang	Replaces:	David Wang
Date:	2022-06-13		Approved by:	Michael Zhang	Replaced b	y: Serena Wang
ABB Ltd.		ence:			ABB	

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							
	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							
	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					
	Cable Sizes	2Rx3Cx70mm		2Rx3Cx120mm2					
Connections	Terminal Stud Size	M6		M10					
	Terminals	6 terminals for connection, cable lugs (not included)							
Fan	Material	Polypropylene, Reinforced with 20% glass fibre							
	Material	Sheet of steel, cold rolled							
Fan Cover	Paint Colour shade	Munsell blue 8B 4.5/3.25/NCS 4822 B05G							
	Surface Treatment	C3 medium according to ISO/EN 12944-5							
	Material	Copper							
Stator winding	Insulation	Insulation class F, Temperature rise class B unless otherwise stated.							
	Winding protection	-							
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 with the stator								