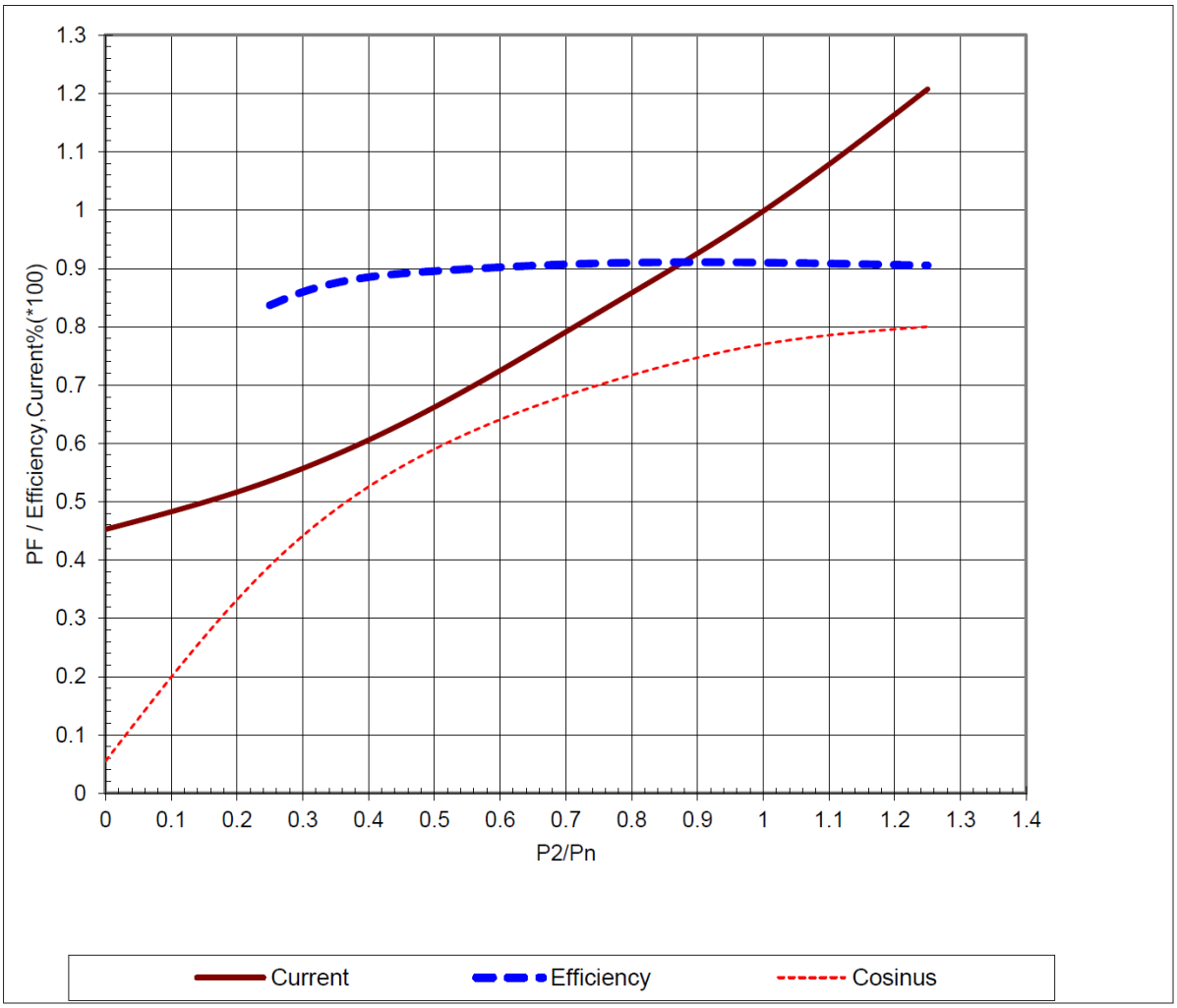
9.0	**Condenser Tube Ball Recirculating Pump Motor**		T91
9.1	Make		ABB
9.2	Type		Squirrel cage induction, TEFC
9.3	Applicable Standard		IEC
9.4	Quantity for 2 Units	Nos.	4
9.5	Duty		S1, Continuous
9.6	Design Ambient Temperature	° C	50
9.7	Degree of Protection		IP 55
9.8	Rated Power	kW	9.3
9.9	Nominal Current	Amps	20.2
9.10	Synchronous Speed	RPM	1470
9.11	Frame Size		160ML
9.12	Rated Voltage / frequency		380V AC, 50Hz, 3 Ph
9.13	Voltage variation		± 10%
9.14	Frequency variation		± 5%
9.15	Combined Voltage / Frequency variation		10% absolute
9.16	Class of insulation		F (Temperature rise limited to class B)
9.17	Type of Starting		Direct - on - line (DOL)
9.18	Drive Transmission		Flexible Coupling
9.19	Efficiency	%	91 (IE2)
9.20	Power Factor	%	0.77
9.21	KKS No.		50PAH11AP010-M01, 50PAH12AP010-M01
NOTE : KKS No. Shall be changed from "50" to "60" for UNIT 6 .			

ABB Motors and Generators	Load Curves		
	Project	Location	
Department/Author	Customer name	Customer ref.	Item name 1.00001
Our ref.	Rev/Changed by Date of issue A 02-07-2018	Saving ident untitled.xls	Pages 2(3)

Product	TEFC, 3-phase, squirrel cage induction motor		
Type/Frame	M2BAX 160MLJ 4	Calc. ref.	3GZH021016-36
Product code	3GBA 162 490-ADDIN		
Rated output P_N	9.3 kW		
Type of duty	S1 100%		

Voltage (V)	380	Current I_N (A)	20.2	Power factor at P_N	0.77
Frequency (Hz)	50	Speed (r/min)	1470	Efficiency (%) at P_N	91



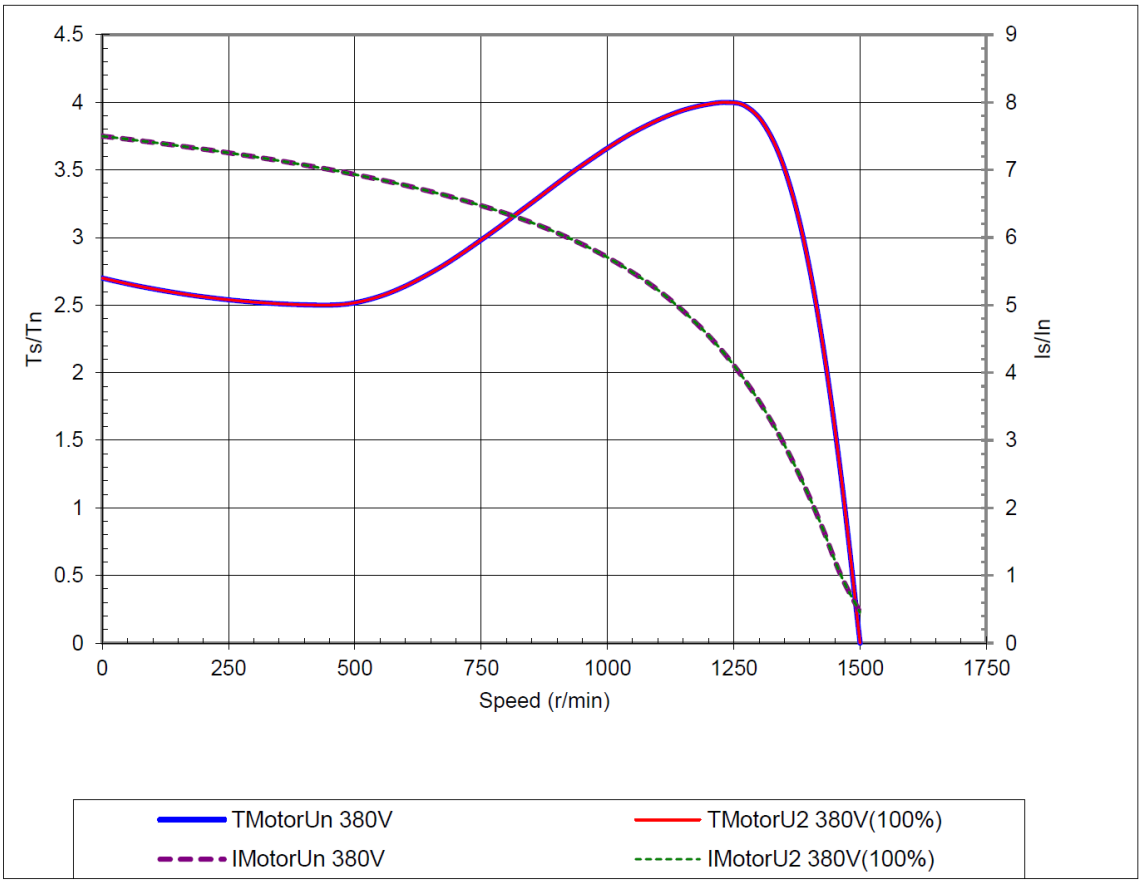
Data based on situation 6/26/2015

All data subject to tolerances in accordance with IS/IEC 60034-1 : 2004

ABB Motors and Generators	Starting Curves		
	Project	Location	
Department/Author	Customer name	Customer ref.	Item name 1.00001
Our ref.	Rev/Changed b Date of issue	Saving ident	Pages
	A 02-07-2018	untitled.xls	3(3)

Type of product	**TEFC, 3-phase, squirrel cage induction motor**				
Type/Frame	**M2BAX 160MLJ 4**		Calc. ref.	3GZH021016-36	
Product code	**3GBA 162 490-ADDIN**		Frequency (Hz)	**50**	
Rated output P_N	**9.3** kW		Rated current I_N	**20.2**	A
Type of duty	**S1 100%**				

J_{motor} (kgm2)	**0.1**	Voltage (V) 100%	***380***	Voltage (V)	***380V(100%)***
J_{load} (kgm2)		T_{start}/T_N	***2.7***	T_{start}/T_N	***2.7***
Speed (r/min)	**1470**	Starting time (s)		Starting time (s)	
T_N (Nm)	**60**	Speed (r/min)		Speed (r/min)	
T_{load} (Nm)		I_s/I_n	***7.5***	I_s/I_n	***7.5***
		T_{max}/T_n	***4***	T_{max}/T_n	***4***



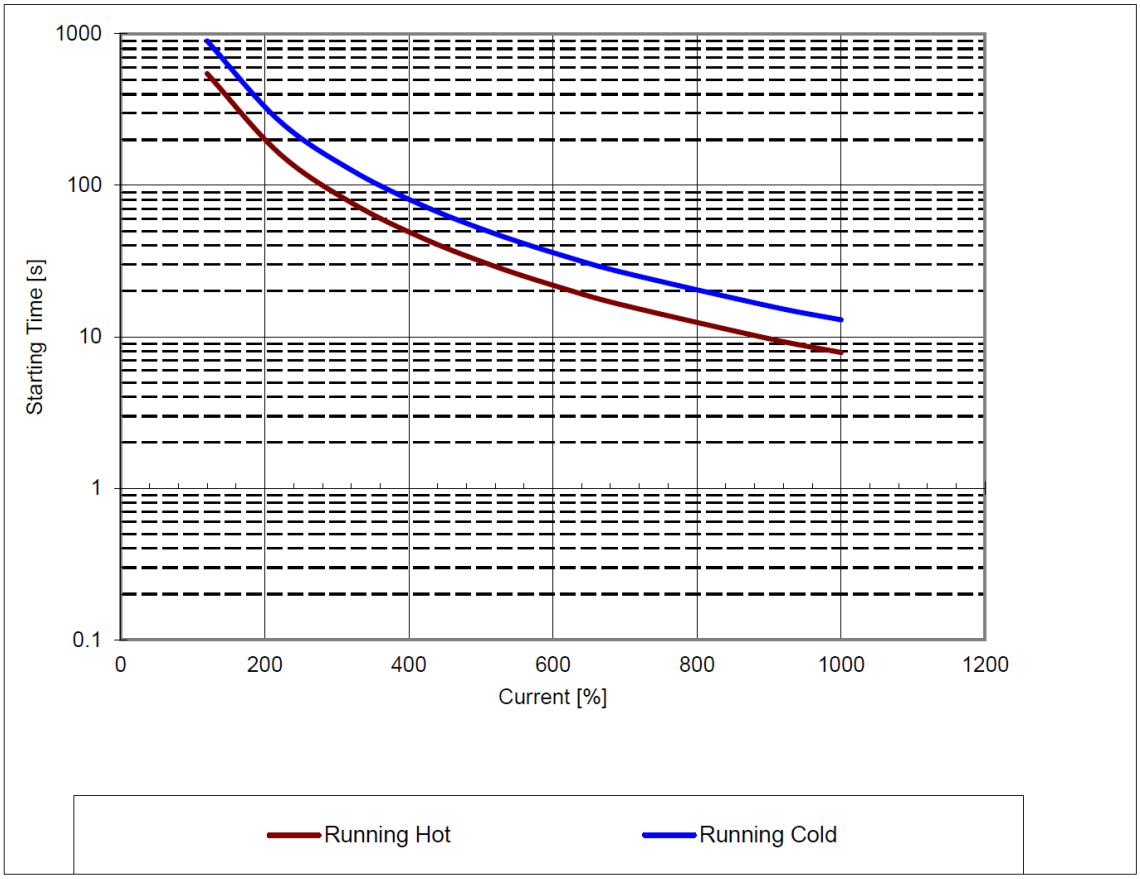
Data based on situation 6/26/2015

All data subject to tolerances in accordance with IS/IEC 60034-1 : 2004

ABB Motors and Generators	Thermal Withstand Curve		
	Project	Location	
Department/Author	Customer name	Customer ref.	Item name 1.00001
Our ref.	Rev/Changed b Date of issue	Saving ident	Pages
	A 02-07-2018	untitled.xls	5(3)

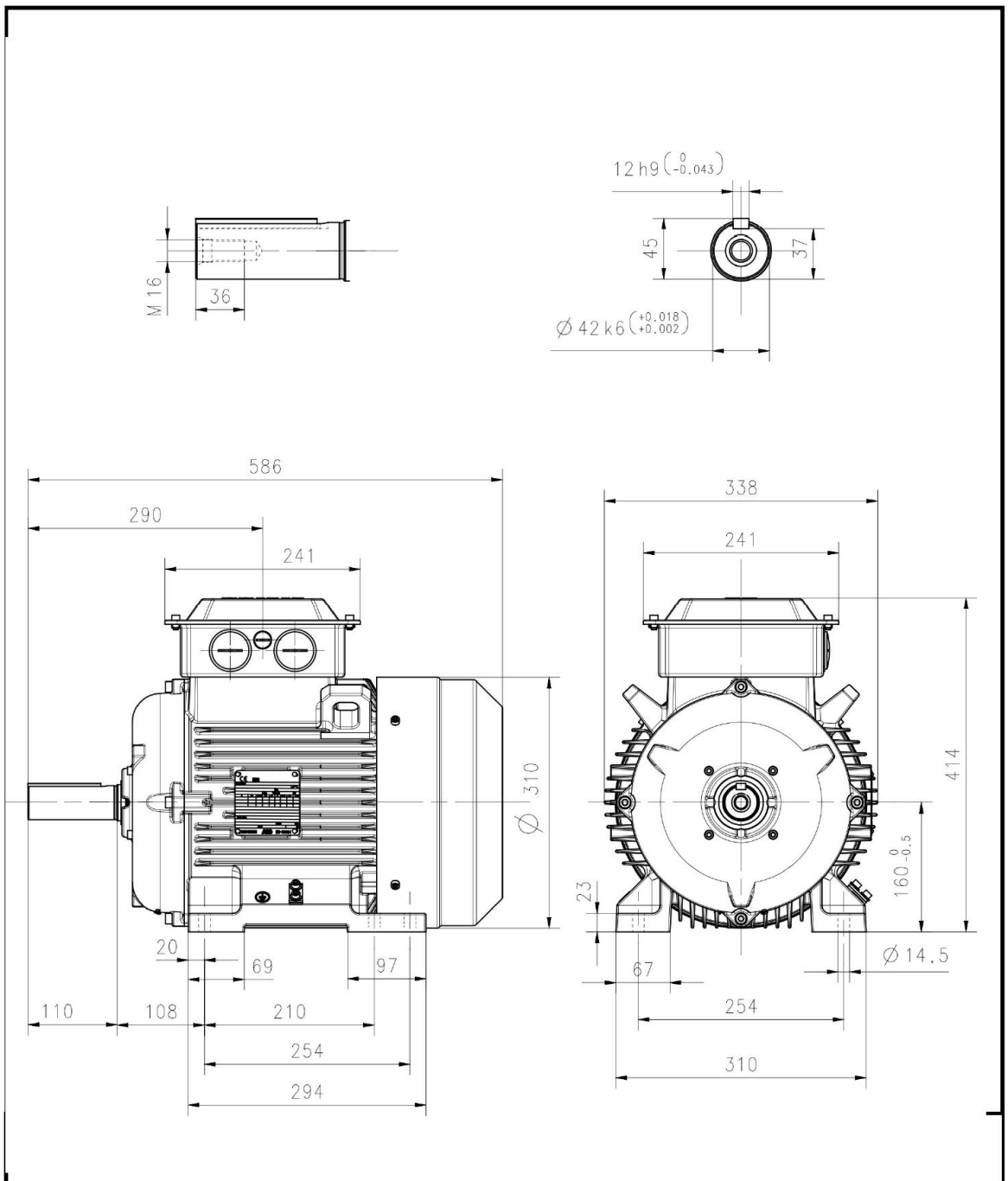
Type of product	TEFC, 3-phase, squirrel cage induction motor				
Type/Frame	M2BAX 160MLJ 4		Calc. ref.	3GZH021016-36	
Product code	3GBA 162 490-ADDIN		Frequency (Hz)	50	
Rated output P_N	9.3 kW		Rated current I_N	20.2	A
Type of duty	S1 100%				

J_{motor} (kgm2)	0.1	Voltage (V) 100%	*380*	Voltage (V)	*380V(100%)*
J_{load} (kgm2)		T_{start}/T_N	*2.7*	T_{start}/T_N	*2.7*
Speed (r/min)	1470	Starting time (s)		Starting time (s)	
T_N (Nm)	60	Speed (r/min)		Speed (r/min)	
T_{load} (Nm)		I_s/I_n	*7.5*	I_s/I_n	*7.5*
		T_{max}/T_n	*4*	T_{max}/T_n	*4*

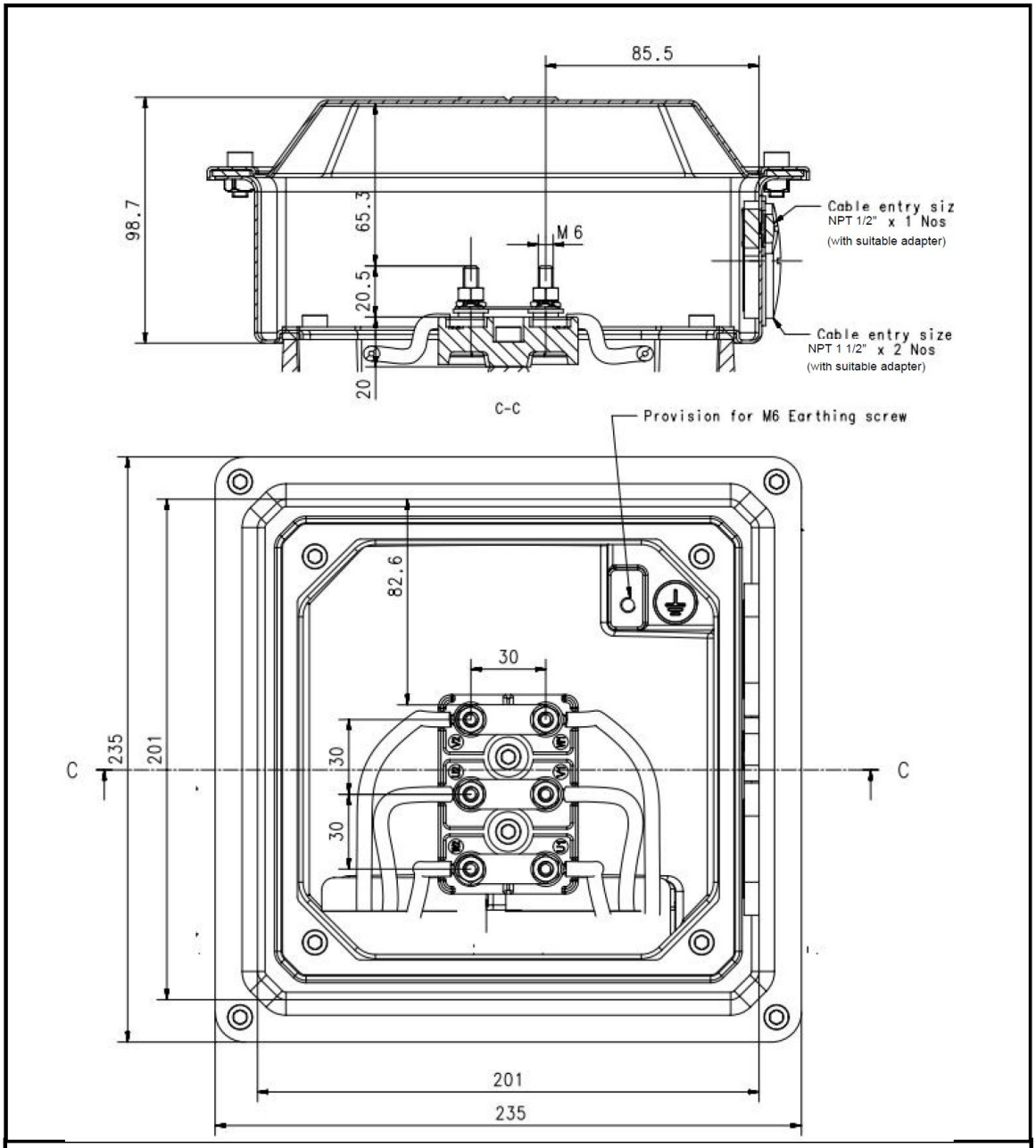


Data based on situation 6/26/2015

All data subject to tolerances in accordance with IS/IEC 60034-1 : 2004



Dimension Print	Motor Type: M2BAX 160 Short B3, V5, V6	Document No: 3GZH500016-1 A
Description: STANDARD IE1, IE2 SQUIRREL CAGE MOTOR		
Unit: ABB LV Motors, India.	Issued by: MB	Replaces:
Date: **2014-03-10**	Approved by: SA	Replaced by:
	Customer Reference:	



Additional Information:

Dimension Print	Motor Type: M2BAX 160-200 IE1, IE2; M2BAX 160-180 IE3	Document No: 3GZH101716-15 A
Description: TERMINAL BOX		
Unit: ABB LV Motors, India. Date: **2014-03-10**	Issued by: MB Approved by: SA	Replaces: Replaced by:
	Customer Reference:	