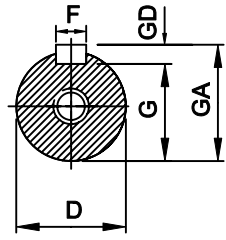
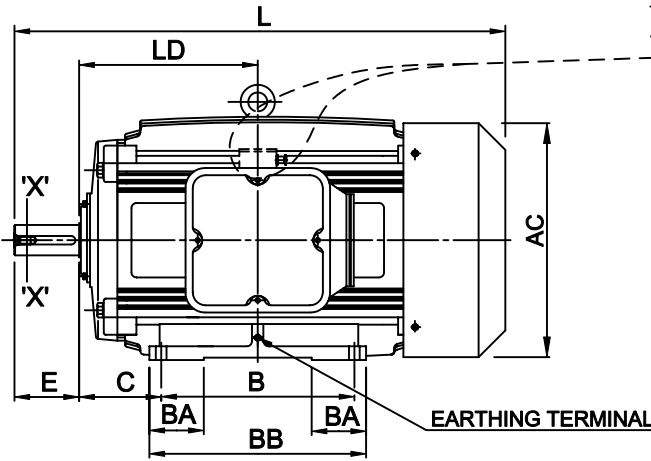
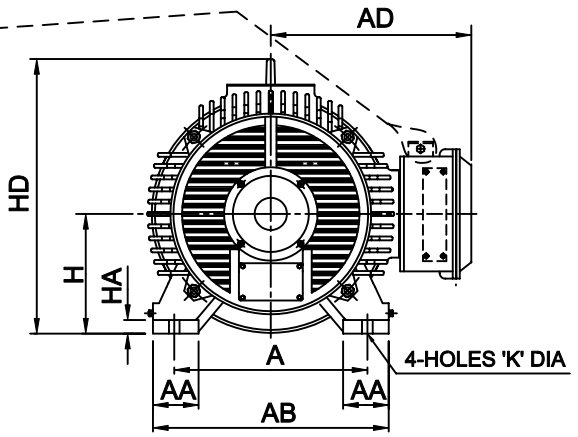


AUX. TERMINAL BOX
FOR SPACE HEATER
WITH D/COMPRESSION
CABLE GLAND SIZE-1X2CX2.5mm²
IS OPTIONAL-WILL BE PROVIDED
WHEN SPACE HEATER IS CALLED FOR

These drawing and design are the property of
Marathon Electric Motors (India) Limited. These must not
be copied or lent to any other party without the written
consent of Marathon Electric Motors (India) Limited.



SECTION ON 'X'-X'



11	12-D250M	4-8	250	+0 -0.5	65	+0.030 +0.011	140	69	18	+0 -0.043	11	+0 -0.11	58	+0 -0.2	406	349	168	24	508	108	420	100	42	540	459	425	342.5	935	T 20	1X3CX150mm² / 2x3CX95mm²
10	12-D250M	2	250	+0 -0.5	60	+0.030 +0.011	140	64	18	+0 -0.043	11	+0 -0.11	53	+0 -0.2	406	349	168	24	508	108	420	100	42	540	459	425	342.5	935	T 20	1X3CX150mm² / 2x3CX95mm²
9	12-D225M	4-8	225	+0 -0.5	60	+0.030 +0.011	140	64	18	+0 -0.043	11	+0 -0.11	53	+0 -0.2	356	311	149	19	444	88	375	95	40	517	459	425	304.5	860	T 20	1X3CX70mm² / 2x3CX50mm²
8	12-D225M	2	225	+0 -0.5	55	+0.030 +0.011	110	59	16	+0 -0.043	10	+0 -0.090	49	+0 -0.2	356	311	149	19	444	88	375	95	40	517	459	425	304.5	830	T 20	1X3CX70mm² / 2x3CX50mm²
7	12-D225S	4-8	225	+0 -0.5	60	+0.030 +0.011	140	64	18	+0 -0.043	11	+0 -0.11	53	+0 -0.2	356	286	149	19	444	88	375	95	35	485	390	395	304.5	860	T 20	1X3CX70mm² / 2x3CX50mm²
6	12-D225S	2	225	+0 -0.5	55	+0.030 +0.011	110	59	16	+0 -0.043	10	+0 -0.090	49	+0 -0.2	356	286	149	19	444	88	375	95	35	485	390	395	304.5	830	T 20	1X3CX70mm² / 2x3CX50mm²
5	12-D200L	2-8	200	+0 -0.5	55	+0.030 +0.011	110	59	16	+0 -0.043	10	+0 -0.090	49	+0 -0.2	318	305	133	19	390	80	356	88	35	460	390	395	285.5	795	T 20	1X3CX70mm² / 2x3CX50mm²
4	12-D180L	2-8	180	+0 -0.5	48	+0.018 +0.002	110	51.5	14	+0 -0.043	9	+0 -0.090	42.5	+0 -0.2	279	279	121	15	344	65	330	90	25	422	345	315	260.5	750	T 16	1X3CX50mm²
3	12-D180M	2-8	180	+0 -0.5	48	+0.018 +0.002	110	51.5	14	+0 -0.043	9	+0 -0.090	42.5	+0 -0.2	279	241	121	15	344	65	330	90	25	422	345	315	260.5	750	T 16	1X3CX50mm²
2	12-D160L	2-8	160	+0 -0.5	42	+0.018 +0.002	110	45	12	+0 -0.043	8	+0 -0.090	37	+0 -0.2	254	254	108	15	300	60	300	100	20	381	316	300	235	670	T 16	1X3CX50mm²
1	12-D160M	2-8	160	+0 -0.5	42	+0.018 +0.002	110	45	12	+0 -0.043	8	+0 -0.090	37	+0 -0.2	254	210	108	15	300	60	300	100	20	381	316	300	235	670	T 16	1X3CX50mm²
PART NO.	FRAME SIZE	NO.OF POLE	NOM	TOL	NOM	TOL	E SHAFT EXTN.	GA	NOM	TOL	NOM	TOL	NOM	TOL	A	B	C	K	AB	AA	BB	BA	HA	HD	AC	AD	LD	L	TAPPED CENTER HOLE AT SHAFT END (AS PER IS: 2540)	MAX. CABLE SIZE

08	24.08.09	'HA' DIMENSION FOR D160M & L CHANGED TO '20' mm. WAS '25' mm.		
07	08.09.08	AUX. T/BOX. FOR SP.HEATER ADDED.		
06	14.12.07	COMPANY NAME AND LOGO CHANGED		
05	06.03.07	DIM. 'LD' CHANGED & T/BOX OPENING CHANGED		
04	30.03.03	FOR PART PART 8,9,10,11 'AD' DIMENSION CHANGED FROM 410 TO 425 & FOR PART 5,6,7 380 CHANGED TO 395		
03	21.10.02	'HA' DIMENSION CHANGED		
02	12.07.2000	160 M&L FRAME 'AD' DIMENSIONS CHANGED 300 WAS 285		
01	23.09.99	THREADED CENTRE HOLE ADDED.	BB	BN
REV.	DATE	DETAIL OF REVISION	DONE BY	APPRVD

NOTE:
1.0 ALL DIMENSIONS ARE IN mm EXCEPT OTHERWISE SPECIFIED.
2.0 FOR TOLERANCES OF DEMENSIONS(NOT MENTIONED) REFER TO IS:2102.
3.0 DIMENSIONS MARKED * ARE MAXIMUM VALUES.



Marathon Electric Motors (India) Limited
Paharpur Works, 58 Taratala Road.
Kolkata - 700024 , INDIA

TITLE

OUTLINE DIMENSIONAL DRAWING FOR
12-D160 TO 12-D250 CHALLENGER MOTOR
(AS PER IS:1231)

DRAWN

B.BISWAS

11.04.99

DRAWING NO.

CM1365

REV.

08

CHECKED

S.BHOWMICK

SCALE IF ANY

N.T.S

APPRVD

R.RANJAN

SIGN

DATE