

Explosion Proof Motors

Model No: 825072.00

Catalog No: C374A

Explosion Proof Motor, 7.50 & 5 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 213TC
Frame, EPFC

Product Information Packet: Model No: 825072.00, Catalog No: C374A Explosion Proof Motor, 7.50 & 5 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 213TC Frame, EPFC

Nameplate Specifications

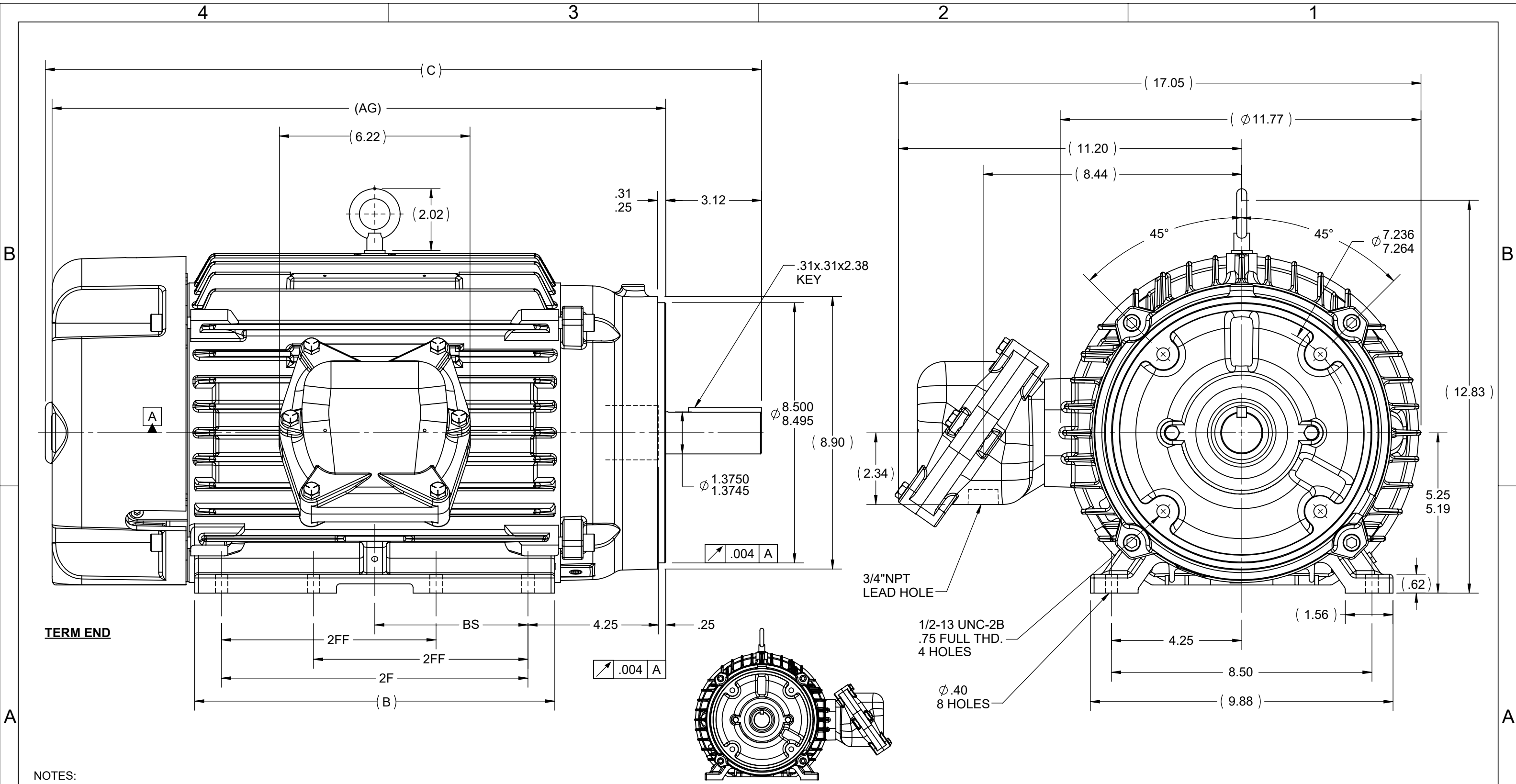
Phase	3	Output HP	7.50 & 5 Hp
Output KW	5.6 & 3.7 kW	Voltage	230/460 & 190/380 V
Speed	3530 & 2950 r/min	Synchronous RPM	3600 & 3000 r/min
Service Factor	1.15 & 1.15	Frame	213TC
Enclosure	Explosion Proof Fan cooled	Thermal Protection	Thermostat
Efficiency	90.2 & 89.5 %	Ambient Temperature	40 °C
Frequency	60 & 50 Hz	Current	19/9.5 & 15/7.5 A
Power Factor	86	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	H	Drive End Bearing Size	6309
Opp Drive End Bearing Size	6208	UL	UL Listed And CSA Certified
CSA	Y	CE	N
IP Code	54	Number of Speeds	1
Hazardous Location	DIV 1 EXP PROOF CL I GR CD CL II GR FG T3B		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	1.15 O	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	20.45 in
Frame Length	9.12 in	Shaft Diameter	1 3/8 in
Shaft Extension	3.38 in	Assembly/Box Mounting	F1 Only
Inverter Load	Constant 10:1		

Drawings

Connection Drawing	A-EE7308T	Outline Drawing	037702-912
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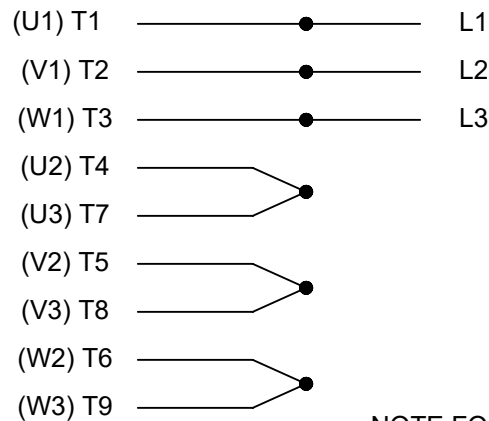


- NOTES:
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 2. CONDUIT BOX CAN BE MOUNTED IN OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°. THIS MODIFICATION CAN BE PERFORMED ONLY BY THE ORIGINAL EQUIPMENT MANUFACTURER, OR BY A FACILITY THAT IS COVERED UNDER UNDERWRITERS LABORATORIES INC. CATEGORY PTKQ, TITLED "MOTOR AND GENERATORS,. REBUILT FOR USE IN HAZARDOUS LOCATION".
 3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

1212	215	23.38	11.76	10	7	5	20.03
912	213/215	20.38	8.63	7	5.5	3.5	17.03
DASH	FRAME	C	B	2F	2FF	BS	AG

DRAWING REVISION G		REVISION BY SB		REV DATE/© DATE 09/05/2025		TOLERANCES (EXCEPT AS NOTED): DEC. INCH mm ANGLE .X ±0.1 [±3] ±7° 30" .XX ±0.03 [±0.8] .XXX ±0.005 [±0.13] .XXXX ±0.0005 [±0.013] REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/.38] X 45° CORNER FILLETS: R.02 [.5] MACHINED SURFACES: 200 INCH mm 5.1 mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY				DRAWN BY PN		marathon™					
REQUEST NUMBER CR-0023556		APPROVED BY SBD		DATE 09/05/2025						DATE 9/2/2010							
REQUEST NUMBER DESCRIPTION DRAWING TITLE BLOCK UPDATED COPYRIGHT (PER REVISION DATE) MARATHON ELECTRIC, LLC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF MARATHON ELECTRIC, LLC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.										APPROVED BY		DESCRIPTION OUTLINE 210 FR. - EPFC					
										DATE							
						REFERENCE 037660		MATERIAL				PROCESS/FINISH					
						THIRD ANGLE PROJECTION				SIZE B		DRAWING NUMBER 037702				SHEET 1 OF 1	

LOW VOLTAGE



NOTE FOR FACTORY USE ONLY:
TO SURGE TEST FOR COMMON CONNECT:
HIGH VOLT: CONNECT P1 TO T1
THEN P2 TO L1
LOW VOLT: CONNECT P1 TO T1 & T7,
THEN P2 TO L1

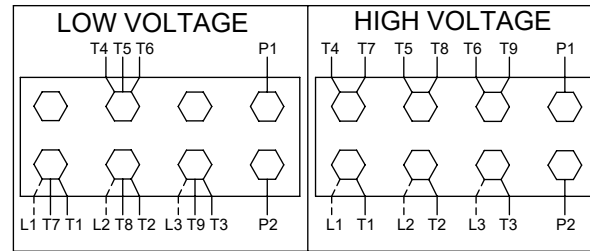
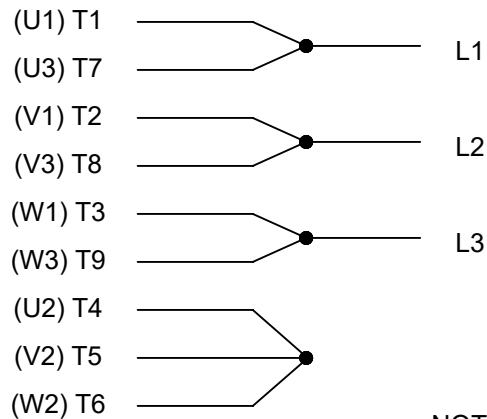


Diagram illustrating the terminal end of a cable with 12 conductors and two thermoprotectors (PROT.). The conductors are labeled T1 through T12 and are connected to a central point. The thermoprotectors are labeled PROT. and are connected to the outer conductors. The diagram shows the internal wiring and the color coding for each conductor.

Conductor Label	Color	Terminal Label
T1	RED OR PURPLE	P1 (TB1)
T4	BLACK	T1 (U1)
T7	BLACK	T4 (U2)
T9	YELLOW	T9 (W3)
T8	BROWN	T7 (U3)
T6	ORANGE	T8 (V3)
T5	BLACK	T6 (W2)
T3	BLACK	T5 (V2)
T2	RED	T2 (V1)
T12	BLUE	T3 (W1)
T11	PURPLE OR RED	P2 (TB2)

VIEW OF TERMINAL END

NOTE: LEAD'S COLOR CAN BE YELLOW OR WHITE FOR IMG PLANT

DRAWING REVISION U		REVISION BY SB	REV DATE/© DATE 08/01/2025	PRIMARY DIMENSIONS ARE INCH mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY	DRAWN BY SMC		marathon™		
REQUEST NUMBER CR-0023654		APPROVED BY SBD	DATE 08/01/2025		DATE 05-13-1992				
REQUEST NUMBER DESCRIPTION DRAWING TITLE BLOCK UPDATED					APPROVED BY TB		DESCRIPTION CONN DIAGRAM-EXTERNAL 3 PHASE - DUAL VOLTAGE MOTOR		
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					REFERENCE EE7308/EE7300		MATERIAL		PROCESS/FINISH
				THIRD ANGLE PROJECTION		SIZE A	DRAWING NUMBER EE7308T		SHEET 1 OF 1