

October 1997
Mailed to: E, D, C/29-100A

Series C®
HMCP
Motor Circuit
Protectors
3-600 Amperes

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Series C[®] HMCP Motor Circuit Protectors 3-600 Amperes

F-Frame
Front View

Technical drawing of the F-Frame front view. The drawing shows three vertical assemblies. The overall height is 1.562 (39.65). The overall width is .740 (18.78). Each assembly has a top section with a hole and a bottom section with a mounting hole. The top section has a hole with a diameter of .197 (5.00) and a bore with a diameter of 1.938 (49.20) and a depth of .344 (8.73). The bottom section has a mounting hole with a diameter of .656 (16.65) and a depth of .164 (4.15). The mounting holes are spaced 1.500 (38.08) apart. The mounting screws are 1/8" x 1.500 (38.08).

1.562
(39.65)

.740
(18.78)

.197 (5.00) Dia. Hole .328 (8.33) Dia.
C'Bore 1.938 (49.20) Deep From Top.
.344 (8.73) Dia. C'Bore
.656 (16.65) Deep From Bottom.
4 Mounting Holes For .164-.32
(No. 8) x 1.500 (38.08)
Mounting Screws

Technical drawing of a 125A, 2-Pole, 240VAC, 1-Phase Breaker. The drawing shows the front view of the breaker with various dimensions and labels. Key features include:

- Line End:** Indicated on the left side of the drawing.
- Dimensions:**
 - Overall width: 4.554 (115.62)
 - Overall height: 4.500 (114.25)
 - Top mounting hole spacing: 1.375 (34.91) and 1.375 (34.91)
 - Top mounting hole diameter: .375 (9.52)
 - Top mounting hole offset: .188 R (4.76)
 - Top mounting hole center-to-center spacing: 1.719 (43.64)
 - Top mounting hole offset from center: .375 (9.52)
 - Top mounting hole offset from edge: .750 (19.04)
 - Top mounting hole offset from center: .172 (4.36)
 - Top mounting hole offset from edge: .094 R (2.38) Typ. 4 Places
 - Top mounting hole offset from center: .016 (.40)
 - Top mounting hole offset from center: .1693 (42.98)
 - Top mounting hole offset from center: .688 (17.46)
 - Top mounting hole offset from center: .1375 (34.91)
 - Top mounting hole offset from center: .344 (8.73)
 - Top mounting hole offset from center: .016 (.40)
 - Top mounting hole offset from center: .172 (4.36)
 - Top mounting hole offset from center: .094 R (2.38) Typ. 4 Places
 - Top mounting hole offset from center: .016 (.40)
 - Top mounting hole offset from center: .1693 (42.98)
 - Top mounting hole offset from center: .688 (17.46)
 - Top mounting hole offset from center: .1375 (34.91)
 - Top mounting hole offset from center: .344 (8.73)
 - Top mounting hole offset from center: .016 (.40)
- Labels:**
 - Line:** Indicated on the top right.
 - Load:** Indicated on the bottom right.
 - Rating Adjustment:** Indicated on the left side.
 - On/Off:** Indicated on the top right.
 - Push to Trip:** Indicated on the bottom right.
 - 125A, 2-Pole, 240VAC, 1-Phase Breaker:** Indicated on the right side.

Technical drawing of a 3-phase 4-wire busbar assembly. The drawing shows a side view of the busbar with three phases and a neutral wire. Dimensions are provided in inches and millimeters.

Dimensions:

- Overall width: 4.125 (104.73)
- Distance from left edge to center of first phase: 2.063 (52.37)
- Distance between centers of adjacent phases: .500 (12.70)
- Distance from center of first phase to center of neutral wire: 1.000 (25.39)
- Distance from top of busbar to center of first phase: 2.625 (66.64)
- Distance from center of first phase to center of neutral wire: 1.562 (39.65)
- Distance from center of first phase to center of second phase: .740 (18.78)

Pockets on Load End Receive Projection of Current Limiter When Required (See Tabulation)

MCP Continuous Rating	Hole Size			Current Limited Pockets
	.203 (5.15)	.234 (5.94)	.266 (6.75)	
3	X			N
5	X			N
7	X			N
10	X			Y
15	X			Y
25		X		N
30		X		N
50		X		Y
70		X		Y
100			X	N
150			X	Y

Breaker Status	Dimension				
	A	B	C	D	E
On	7.79 (37.94)	2.92 (74.13)	3.96 (100.54)	3.40 (86.32)	3.33 (84.54)
Tripped	2.65 (67.28)	2.57 (65.25)	4.06 (103.08)	2.99 (75.91)	2.98 (75.66)
Off	2.08 (52.81)	2.14 (54.33)	4.12 (104.60)	2.42 (61.44)	2.56 (64.99)
Reset	1.98 (50.27)	2.05 (52.04)	4.11 (104.35)	2.30 (58.39)	2.48 (62.96)

Note: For 2 Pole MCP, Current Carrying Parts Omitted From Center Pole

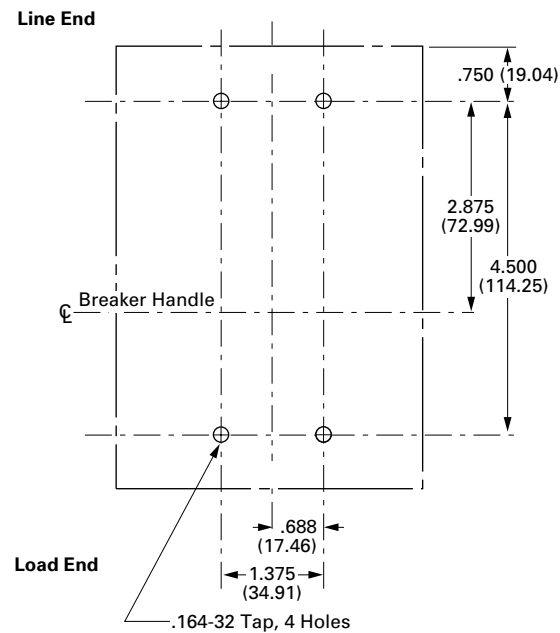
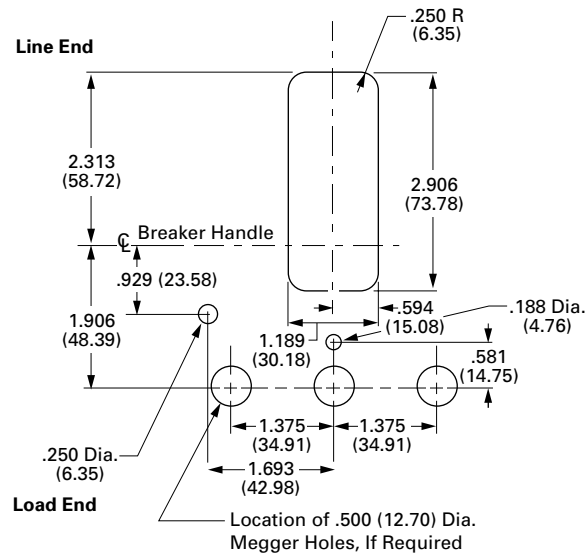


Series C HMCP Motor Circuit Protectors, 3-600 Amperes

F-Frame

Front Cover Cutout

Drilling Plans



Reproduced from drawing 1490D54

Dimensions in parentheses in millimeters

Cutler-Hammer

Westinghouse & Cutler-Hammer Products
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Printed in U.S.A.

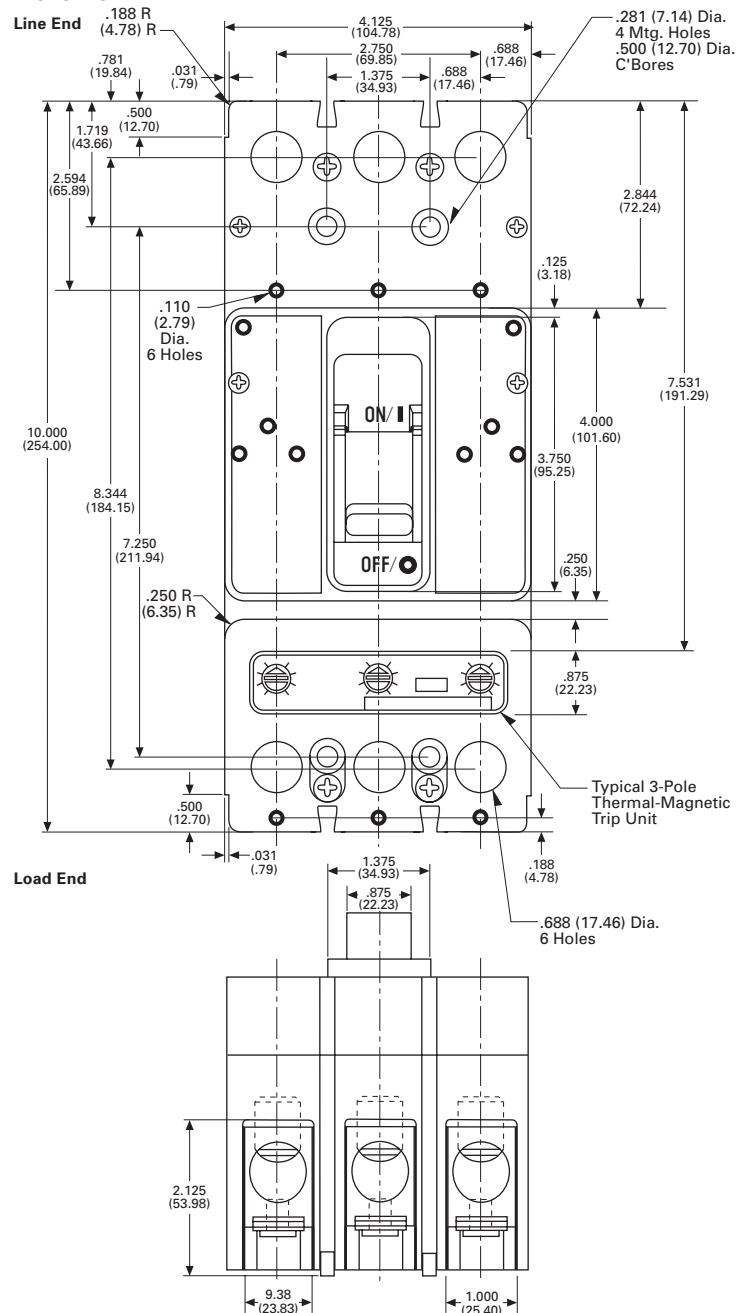
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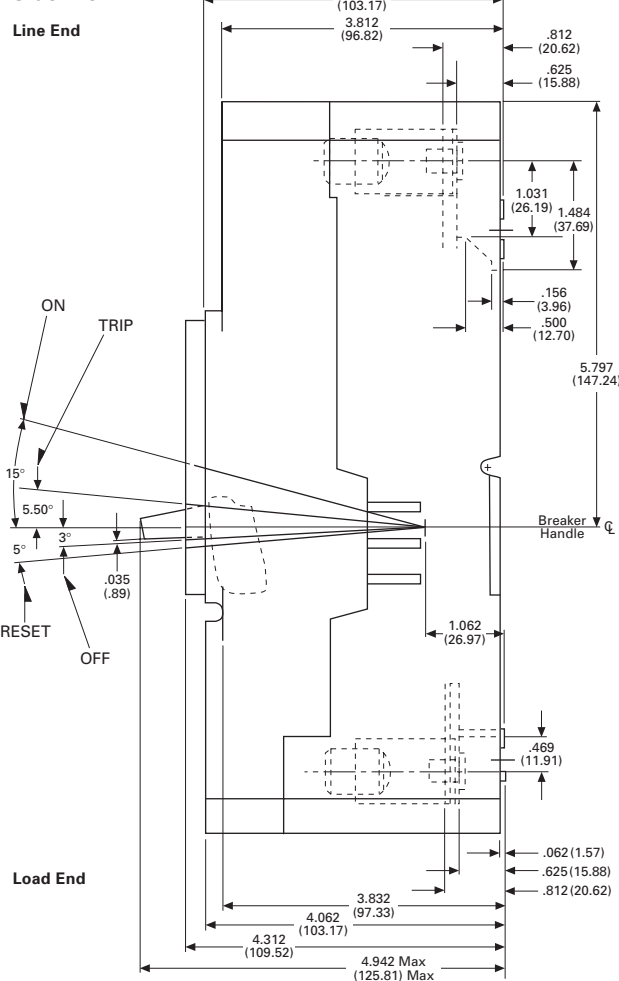
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J-Frame

Front View



Side View

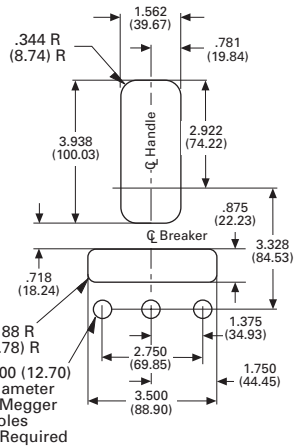
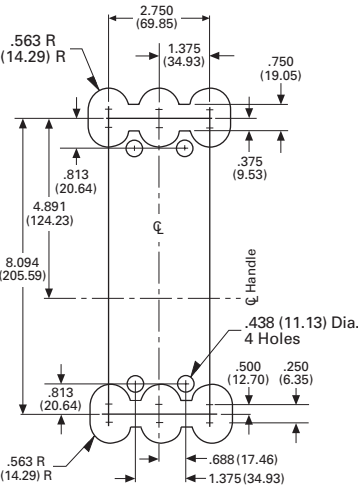
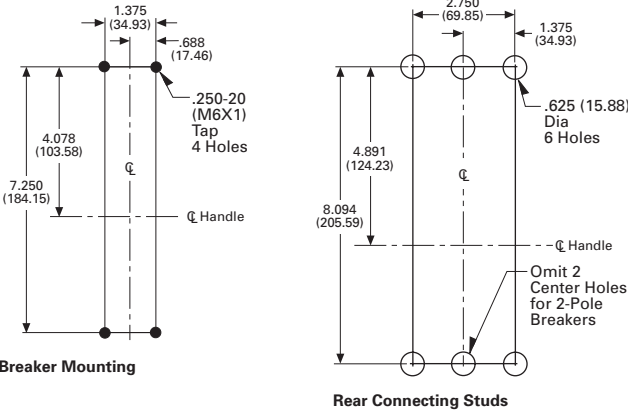




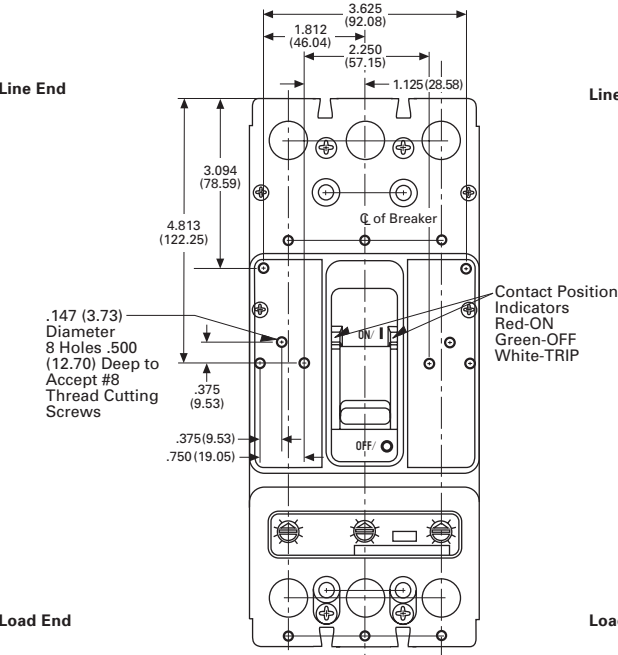
Series C HMCP Motor Circuit Protectors, 3-600 Amperes

J-Frame

Drilling Plans

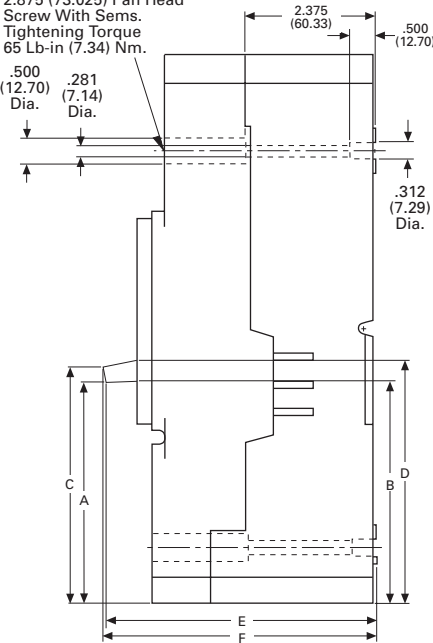


Breaker Shown in OFF Position



Drawout Support Blocks

Breaker Mounting Holes Use .250-20 (M6X1) X 2.875 (73.025) Pan Head Screw With Sems. Tightening Torque 65 Lb-in (7.34) Nm.



Front Cover Cutout

Reproduced from drawings 1491D65 and 1491D67

Breaker Status	Dimension						Hdl. Oper. Force
	A	B	C	D	E	F	
On	5.24 (132.10)	5.12 (130.05)	5.54 (140.72)	5.49 (139.45)	4.77 (121.56)	4.72 (119.89)	32 Lb. (142.3 Nm)
Tripped	4.79 (121.67)	4.71 (119.63)	5.10 (129.54)	5.10 (129.54)	4.87 (123.70)	4.85 (123.19)	
Off	4.02 (102.11)	4.06 (103.12)	4.33 (109.82)	4.45 (113.03)	4.91 (124.71)	4.95 (125.73)	22 Lb. (97.9 Nm)
Reset	3.91 (99.31)	3.96 (100.58)	4.21 (106.93)	4.36 (110.74)	4.90 (124.46)	4.95 (125.73)	38 Lb. (169.0 Nm)

Dimensions in parentheses in millimeters

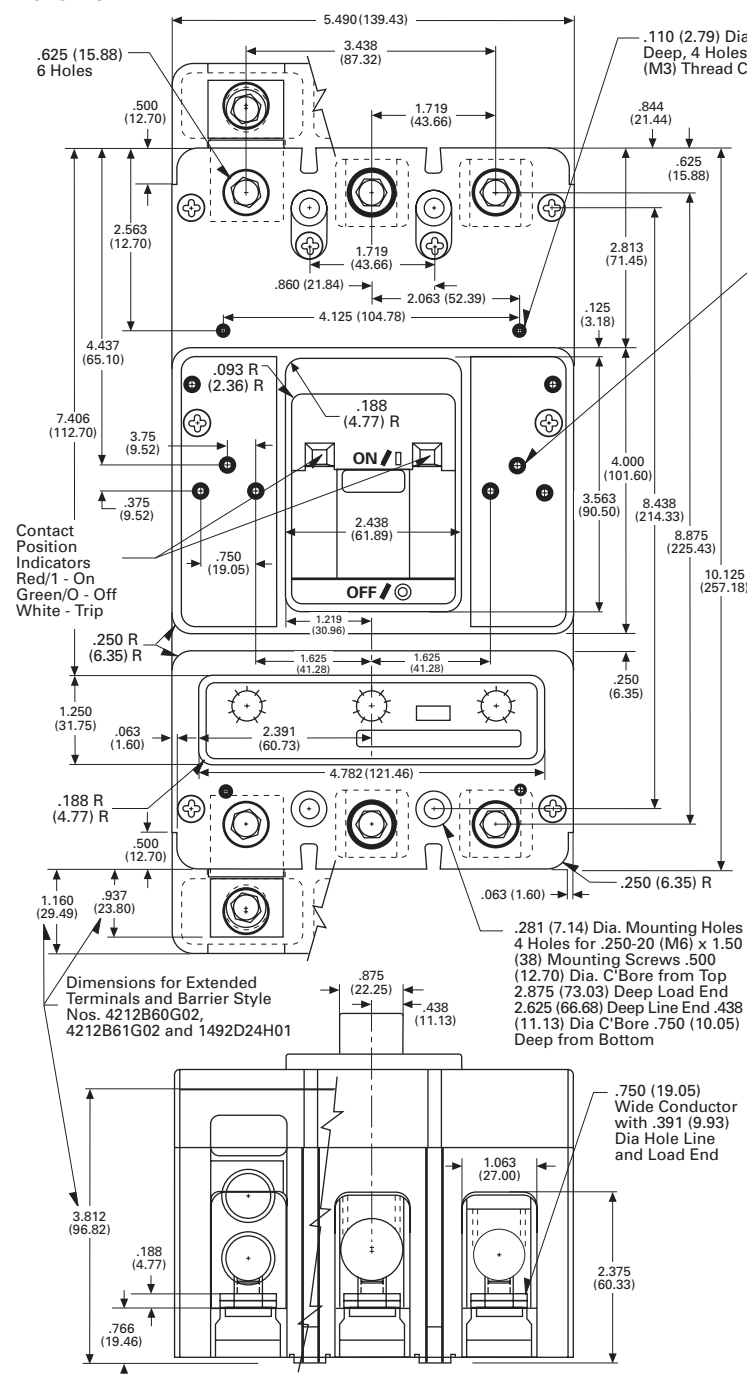
Cutler-Hammer

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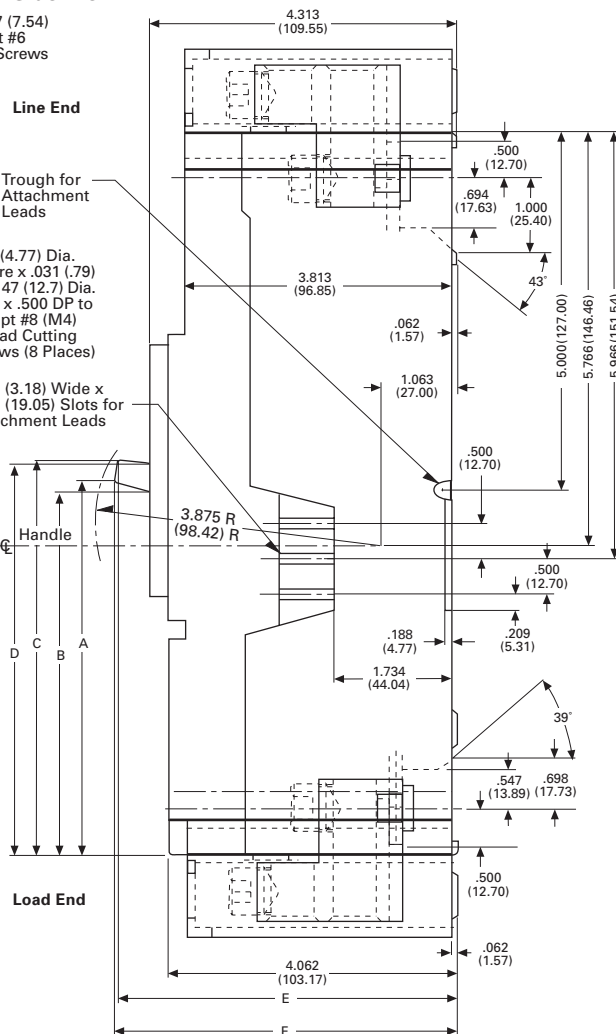
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K-Frame Front View



Side View



Breaker Status	Dimensions						Handle Force ^①
	A	B	C	D	E	F	
On	5.39 (136.9)	5.20 (132.1)	5.69 (144.5)	5.61 (142.5)	4.72 (119.9)	4.77 (121.2)	30 lbs. (13.61 kgs.)
Tripped	4.77 (121.2)	4.69 (119.1)	5.08 (129.0)	5.11 (129.8)	4.89 (124.2)	4.89 (124.2)	—
Off	4.16 (105.7)	4.21 (106.9)	4.46 (113.3)	4.64 (117.9)	4.95 (125.7)	4.91 (124.7)	25 lbs. (11.34 kgs.)
Reset	4.07 (103.4)	4.14 (105.2)	4.57 (116.1)	4.56 (115.8)	4.95 (125.7)	4.90 (124.5)	35 lbs. (15.87 kgs.)

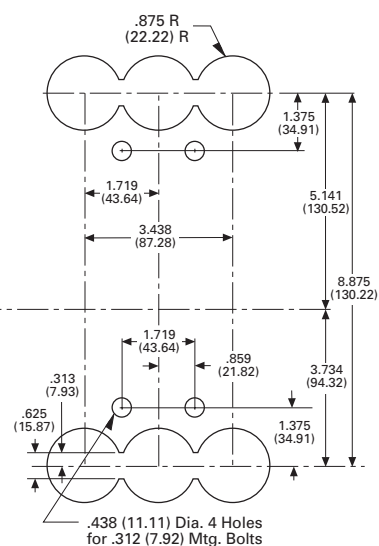
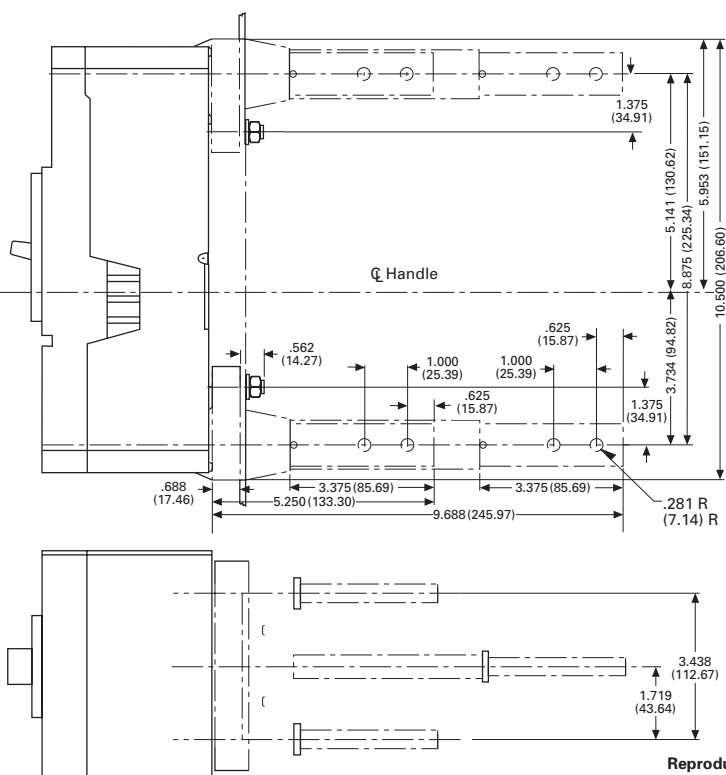
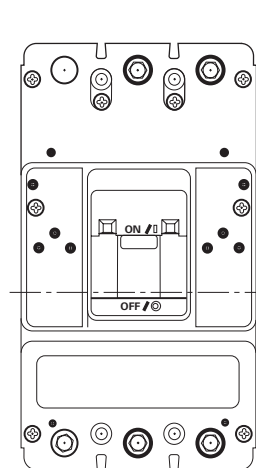
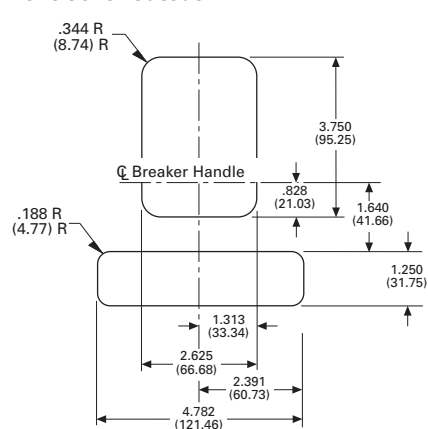
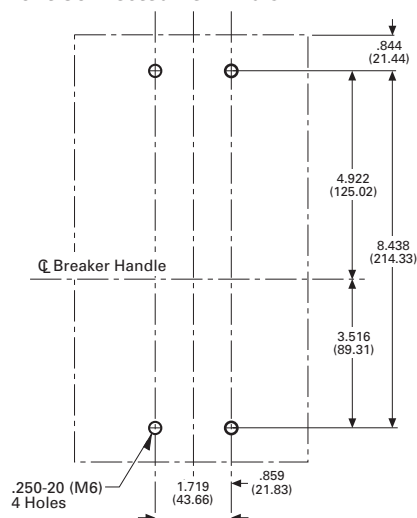
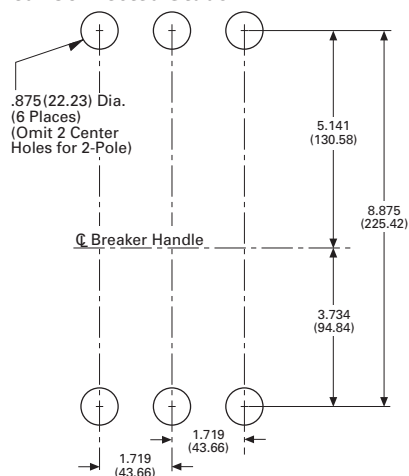
① All handle forces measured approximately 0.125 (3.17) from top of handle.

Reproduced from drawings 1492D63 and 1492D67
Dimensions in parentheses in millimeters



Series C HMCP Motor Circuit Protectors, 3-600 Amperes

Rear Connected Studs



Reproduced from drawings 1492D63 and 1492D67
Dimensions in parentheses in millimeters

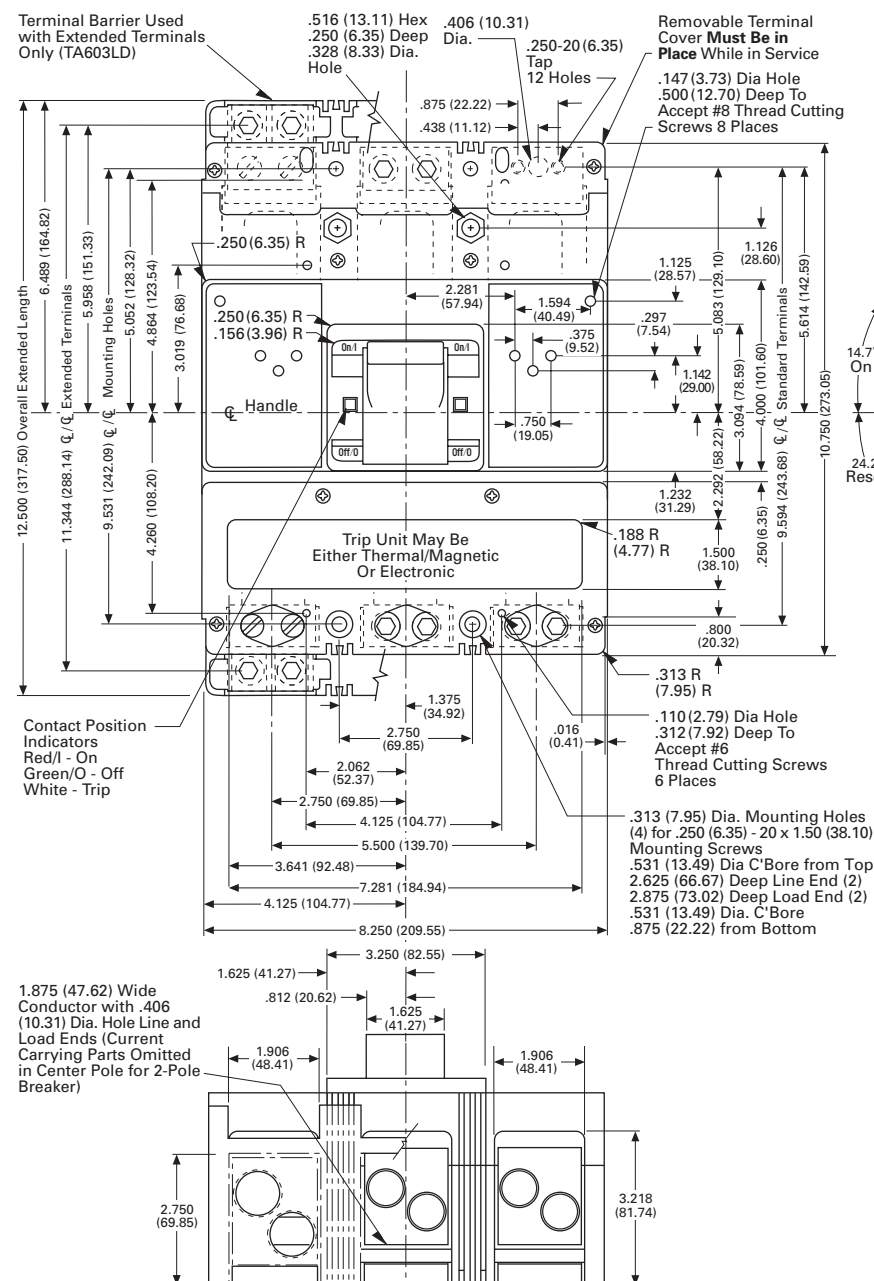
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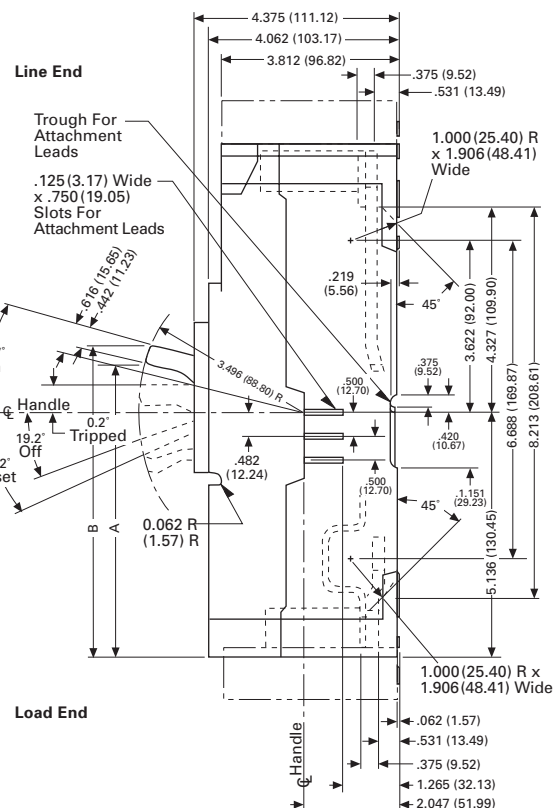
Series C[®] HMCP Motor Circuit Protectors 3-600 Amperes

L-Frame

Front View



Side View



Handle Forces (From End of Handle)^①

On	45 lbs.
Off	50 lbs.
Reset	60 lbs.

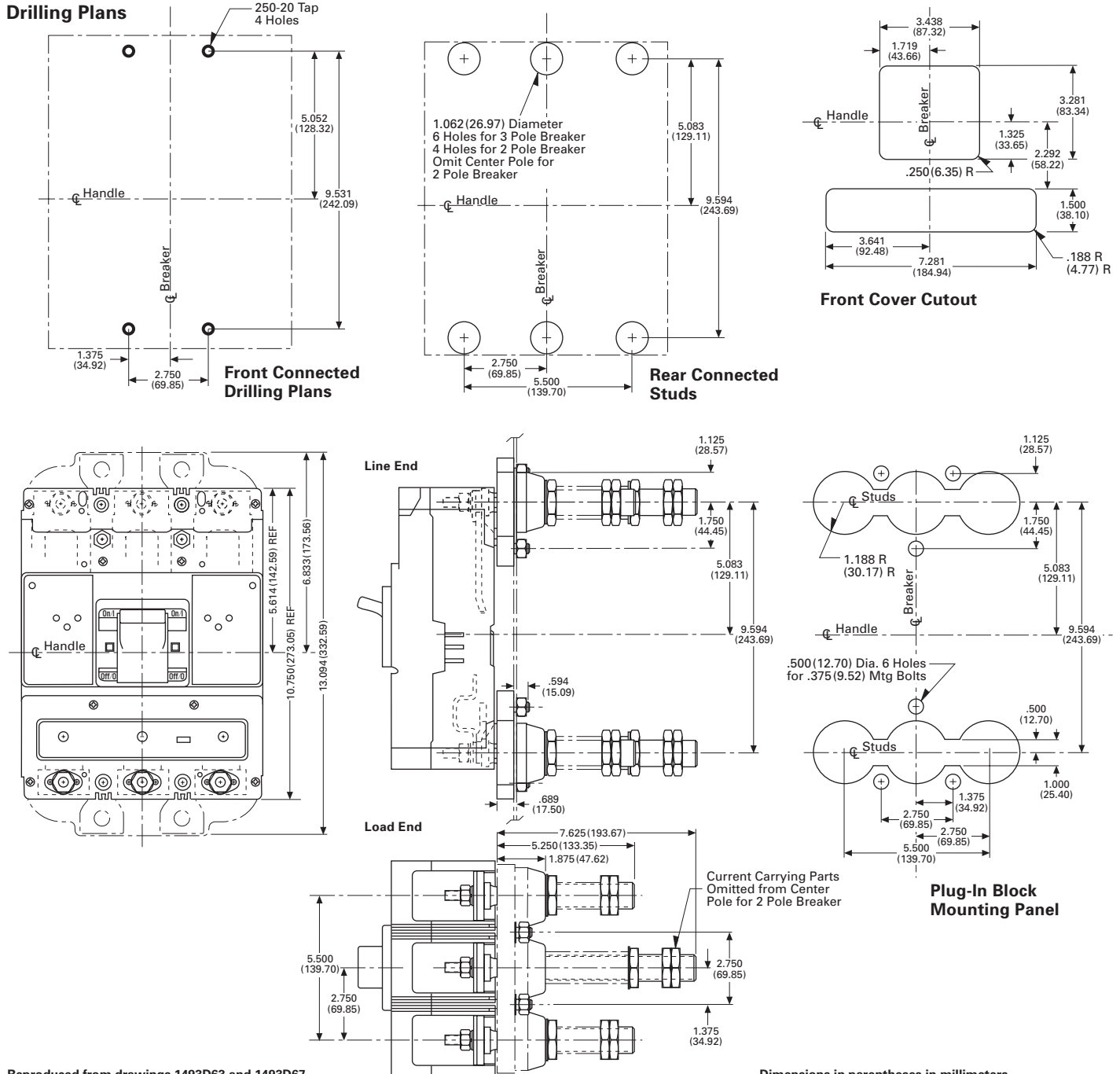
① Measurements taken approximately 3/16 in. from end of handle.



Series C HMCP Motor Circuit Protectors, 3-600 Amperes

L-Frame

Drilling Plans



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Dimensions in parentheses in millimeters

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