EATON | Cutler-Hammer

Rotary Disconnect Switches

Catalog PG00802001E

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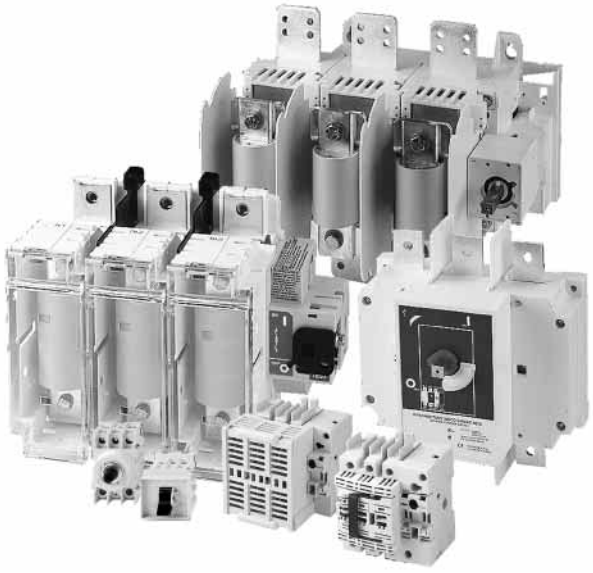

Rotary Disconnect Switches Family

Dimensions, Weights and Ratings

Dimensions, weights and ratings given in this Product Guide **are approximate and should not be used for construction purposes**. Drawings containing exact dimensions are available upon request. All listed product specifications and ratings are subject to change without notice. Photographs are representative of production units.

Pricing

All prices and discounts are subject to change without notice. Price changes when they occur are published in the *Cutler-Hammer Price and Availability Digest* (PAD).

Technical and Descriptive Publications

This Product Guide contains brief technical data for proper selection of products. Further information is available in the form of technical information publications and illustrated brochures. If additional product information is required, contact your local Cutler-Hammer Products Distributor, call 1-800-525-2000 or visit our web site at www.cutler-hammer.eaton.com.

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Eaton Corporation offers no warranty and makes no representation that its product complies with the provisions or standards of the Occupational Safety and Health Act of 1970, or any regulations issued thereunder. In no event shall Eaton be liable for any loss, damage, fines, penalty or expenses arising under said Act.

Compliance with Nuclear Regulation 10 CFR 21

Eaton's Cutler-Hammer products are sold as commercial grade product not intended for application in facilities or activities licensed by the United States Nuclear Regulatory Commission for atomic purposes, under 10 CFR 21. Further certification will be required for use of the product in a safety-related application in any nuclear facility licensed by the U.S. Nuclear Regulatory Commission.

WARNING

The installation and use of Eaton's Cutler-Hammer products should be in accordance with the provisions of the U.S. National Electrical Code and/or other local codes or industry standards that are pertinent to the particular end use. Installation or use not in accordance with these codes and standards could be hazardous to personnel and/or equipment.

These Product Guide pages do not purport to cover all details or variations in equipment, nor to provide for every possible contingency to be met in connection with installation, operation or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to the local Cutler-Hammer Products Distributor or Sales Office. The contents of this Product Guide shall not become part of or modify any prior or existing agreement, commitment or relationship. The sales contract contains the entire obligation of Eaton's Cutler-Hammer. The warranty contained in the contract between the parties is the sole warranty of Eaton's Cutler-Hammer. Any statements contained herein do not create new warranties or modify the existing warranty.

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Product Description

- 16 – 1200A non-fusible range.
- 30 – 800A fusible range.
- Compact design to minimize panel space requirements.
- Variable depth — complete range of shafts that can be cut for specific enclosure depths.
- Pistol type or selector type handle for through-the-door operation. Toggle type handle for internal panel mounting.
- Suitable for equipment or machinery as motor disconnects or industrial control panel disconnects.

Features, Benefits and Functions

- Seven frame sizes to cover 16 – 1200A, 600V applications.
- 3-pole and 4-pole versions.
- Rotary or toggle operation.
- Direct handle or front through-the-door operation.
- Base mounting or DIN rail mounting.
- Welded contact protection.
- Clear ON and OFF indication.
- Full range of handles.
- Padlockable in the OFF position with up to three padlocks.
- Interlocked, defeatable handle prevents easy access in the ON position.
- Wide selection of shafts.
- Visible blade indication (non-fusible C- and V-Frames).

Standards and Certifications

M-, R-, W-Frames

- UL 508
- cUL
- UL, cUL File No. E173959
- IEC 60 947-3
- CE

C-, V-, S-, F-Frames

- UL 98
- CSA
- IEC 60 947-3

Options and Accessories

- Neutral modules.
- Auxiliary contacts.
- 4th pole modules.
- Protective earth modules.
- Terminal shrouds/shields.
- Enclosed Switches.

M-Frame

R-Frame

W-Frame

C-Frame
Non-Fusible

C-Frame
Fusible

V-Frame
Fusible

V-Frame
Non-Fusible

S-Frame
Non-Fusible

F-Frame
Fusible

Padlocking

Handles can be padlocked in the OFF position with up to three padlocks. Meets OSHA requirement for lockout/tagout procedures.

For safety reasons, the door cannot be opened when the handle is padlocked.

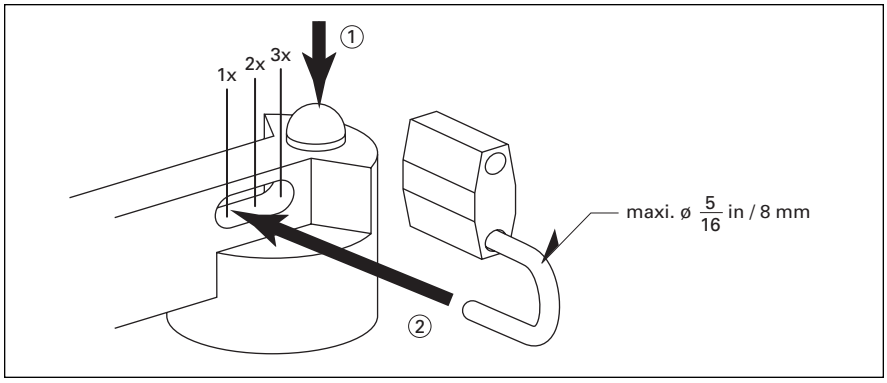

Figure 1. Padlocking Capability (Type G Pistol Handle is Shown)

Door Interlock in ON Position

The handles allow opening of the door in the OFF position only. In the ON position, the door cannot be opened.

This interlocking can however be bypassed by authorized personnel (defeater option on handle) for maintenance, testing or commissioning.

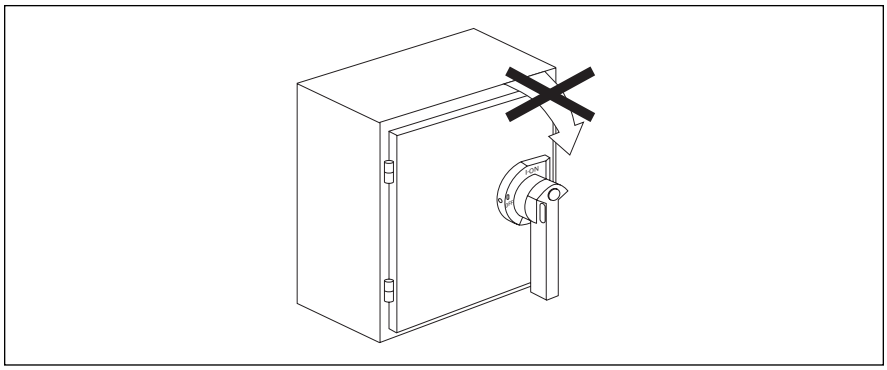

Figure 2. Door Interlocking

Defeater

The defeat function allows qualified personnel to bypass the door interlock when the switch is in the ON position by means of a tool.

This exclusive design is also available in a 4 and 4X rating.

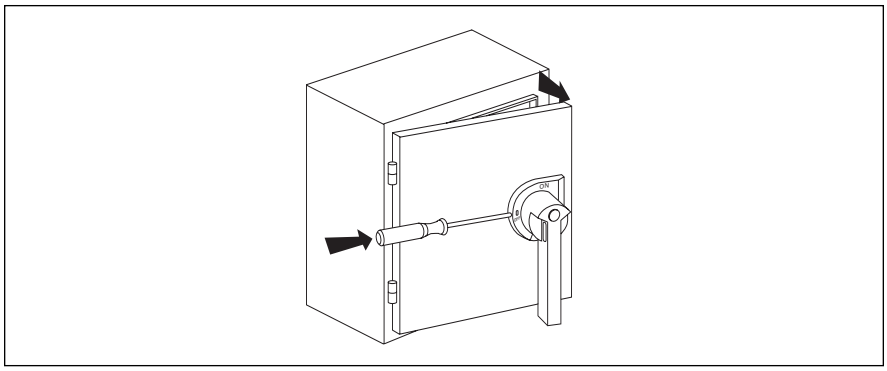

Figure 3. Interlocking Defeater

Toggle Option

Available for internal panel mounting.

Toggle Operated Switch
(Shown with Optional Toggle Cover Plate)

Product Selection — Switches

Catalog Ordering Information

When ordering specify:

- Catalog number of switch.
- Catalog number of operating handle.
- Catalog number of required shaft.
- Catalog number of (optional) accessories.

Table 1. Non-Fusible Switches — UL 508 and UL 98

Ampere Rating	Maximum 3-Phase Horsepower Rating			Catalog Number	Price U.S. $
	240V	480V	600V		
Base Mounted Rotary Switch M-Frame with Blue Collar					
16	2	7.5	7.5	**C362NM16**	32.00
20	3	7.5	10	**C362NM20**	36.00
25	5	10	15	**C362NM25**	40.00
Back/Door Mounted Rotary Switch M-Frame					
16	2	7.5	7.5	**C362NM16D**	38.00
20	3	7.5	10	**C362NM20D**	42.00
25	5	10	15	**C362NM25D**	46.00
Base Mounted Rotary Switch R-, W-Frames with Brass Collar					
30	7.5	15	25	**C362NR30**	54.00
30	7.5	15	25	**C462NR30 (4-pole)**	81.00
40	10	20	30	**C362NR40**	65.00
40	10	20	30	**C462NR40 (4-pole)**	97.50
60	15	30	40	**C362NW60**	80.00
80	20	40	50	**C362NW80**	97.50
100	25	50	60	**C362NW100**	130.00
125	25	50	60	**C362NW125**	275.00
Base Mounted Toggle Switch R-, W-Frames					
30	7.5	15	25	**C362TR30**	54.00
30	7.5	15	25	**C462TR30 (4-pole)**	81.00
40	10	20	30	**C362TR40**	65.00
40	10	20	30	**C462TR40 (4-pole)**	97.50
60	15	30	40	**C362TW60**	80.00
80	20	40	50	**C362TW80**	97.50
100	25	50	60	**C362TW100**	130.00
125	25	50	60	**C362TW125**	275.00
Base Mounted Rotary Switch C-Frame					
30	7.5	15	20	**C362UC30**	150.00
Base Mounted Rotary Switch V-Frame					
60	15	30	50	**C362UV60**	240.00
100	30	60	75	**C362UV100**	270.00
200	60	125	150	**C362UV200**	510.00
Base Mounted Rotary Switch S-Frame					
400	125	350	250	**C362US400**	940.00
600	200	400	350	**C362US600**	1700.00
800	250	500	500	**C362US800**	2860.00
1000	250	500	500	**C362US1000**	3860.00
1200	250	500	500	**C362US1200**	4420.00

Table 2. Fusible Switches — UL 98

Ampere Rating	Maximum 3-Phase Horsepower Rating			Catalog Number	Price U.S. $
	240V	480V	600V		
Base Mounted Fusible Switch C-Frame					
30	7.5	15	20	**C363UC30CT (CC)**	215.00
30	7.5	15	20	**C363UC30JT (J)**	215.00
Base Mounted Fusible Switch V-Frame					
30	7.5	15	20	**C363UV30C**	255.00
30	7.5	15	20	**C363UV30J**	270.00
60	15	30	50	**C363UV60J**	345.00
100	30	60	75	**C363UV100J**	475.00
200	60	125	150	**C363UV200J**	1255.00
400	125	250	350	**C363UV400J**	1690.00
30	7.5	15	20	**C363UV30CT**	285.00
30	7.5	15	20	**C363UV30JT**	300.00
60	15	30	50	**C363UV60JT**	380.00
100	30	60	75	**C363UV100JT**	485.00
200	60	125	150	**C363UV200JT**	1235.00
400	125	250	350	**C363UV400JT**	2050.00
Base Mounted Fusible Switch F-Frame					
600	250	500	500	**C363UF600J**	2640.00
800	250	500	500	**C363UF800L**	4330.00

Note: "T" suffix denotes test position is provided. Test handle is required only if test function is required.

Discount Symbol **22-CD**

Product Selection — Accessories

Table 3. UL 508 Accessories — M-, R-, W-Frames

Description		Catalog Number	Price U.S. $
Back/Door 4th Pole Module for M-Frame		**CM16FP**	14.00
		CM20FP	14.00
		CM25FP	14.00
Base Mounted 4th Pole Module for M-Frame		**CM16BP**	14.00
		CM20BP	14.00
		CM25BP	14.00
Toggle Cover Plates	For use with C362TR30 & TR40	**CRP3**	4.00
	For use with C362TW60 – TW125	**CWP3**	4.00
	For use with C462TR30 & TR40	**CRP4**	4.00
Auxiliary Contacts Kit (Holder and Contact)	1NO/1NC 3-Pole M-Frame (Base Mounted)	**CMAC**	20.00
	1NO/1NC 3-Pole M-Frame (Door Mounted)	**CMACD**	20.00
	1NO 3-Pole R-Frame	**CRAC3** ①	29.25
	1NO 3-Pole W-Frame	**CWAC3** ①	29.25
	1NO 4-Pole R-Frame	**CRAC4** ①	29.25
Auxiliary Contacts (Additional Contacts)	1NO 3-, 4-Pole R-, W-Frames	**CRAB** ①	14.00
	1NC 3-, 4-Pole R-, W-Frames	**CRAA** ①	14.00
Unswitched Neutral for M-Frame Base Mounted		**CNMNB**	18.00
Protective Earth Module for M-Frame Base Mounted		**CNMPB**	18.00
Unswitched Neutral M-Frame Back/Door Mounted		**CNMNF**	18.00
Protective Earth Module M-Frame Back/Door Mounted		**CNMFP**	18.00
Shaft Extension Support		**C362SS1**	13.00
Replacement Brass Collar R- and W-Frames		**CRC**	8.00
Replacement Blue Collar M-Frame		**CNMC**	7.50
Door Mounting Kit R- and W-Frames Rotary Switches		**CTRFC**	14.00
Terminal Shroud 3-Pole M-Frame		**CM35**	7.00
Terminal Shroud 4th Pole M-Frame		**CM45**	6.00

① The mechanism is reversed on these contacts.

Table 4. UL 98 Accessories — C-, S-, V-, F-Frames

Description		Catalog Number	Price U.S. $
Auxiliary Contact Holders	V-Frame (for 1 – 8)	**CUVU**	18.00
	C-Frame (for 5 – 8) ②	**CUCU**	18.00
	S-Frame (for 1 – 4)	**CUSU**	18.00
Auxiliary Contacts	1 NO, Type U	**CUSAA**	25.00
	1 NC, Type U, C-, V-, S- & F-Frames	**CUSAB**	25.00
	1 NO/NC, Type S-, V-Frames	**CUVAC**	65.00
	2 NO/NC, Type S-, V-Frames	**CUVAD**	117.00
	1 NO/NC, Type ST for Fusible, V-Frame w/Test	**CUVXC**	74.00
	2 NO/NC, Type ST for Fusible, V-Frame w/Test	**CUVXD**	149.80
	1 NO/NC, Type MS, F-Frame	**CUFAC**	60.00
	2 NO/NC, Type MS, F-Frame	**CUVAD**	80.00
Line-Side Terminal Shrouds for Non-Fusible V- and S-Frames ③	④	**C362ATS1**	N/A
	3-Pole, V-Frame (200A)	**CUV200T**	91.00
	3-Pole, for Non-Fusible S-Frame (400 – 600A)	**CUS600T**	91.00
	3-Pole, for Non-Fusible S-Frame (800 – 1200A)	**CUS1200T**	127.00
Line-Side Terminal Shrouds for Fusible V- and F-Frames ⑤	3-Pole, for Fusible V-Frame (100A)	**CUV100T**	63.00
	3-Pole, V-Frame (200A)	**CUV200T**	91.00
	3-Pole, for Fusible V-Frame (400A)	**CUV400T**	91.00
	3-Pole, for Fusible F-Frame (600 & 800A)	**CUF800T**	127.00
Shorting Links for 3 Poles Fusible, V- and F-Frames ⑥	V-Frame (30A)	**CUV30SL**	21.00
	V-Frame (60A)	**CUV60SL**	22.00
	V-Frame (100A)	**CUV100SL**	22.00
	V-Frame (200A)	**CUV200SL**	55.00
	V-Frame (400A)	**CUV400SL**	64.00
	F-Frame (600 & 800A)	**CUF800SL**	191.00
Terminal Lugs for Non-Fusible and Fusible V-, S- and F-Frames, for line or load side ⑦	1 Wire/lug, Wire Size 12-2/0, for Non-Fusible V-Frame (100A) ⑧	**CUV100LN**	24.00
	1 Wire/lug, Wire Size #6-3/0, V-Frame (200A) ⑧	**CUV200LN**	29.00
	2 Wires/lug, Wire Size 2-600, V-, S- & F-Frames (400 & 600A) ⑧	**CUS600LN**	137.00
	3 Wires/lug, Wire Size 2-600, S- & F-Frames (800 – 1000A) ⑧	**CUS1000LN**	362.00
	2 Wires/lug, Wire Size 2-600, S-Frame (1200A) ⑨	**CUS1200LN**	366.00

② C-Frames hold 1 – 4 auxiliary contacts without holder.
③ Load-side terminal shrouds provided as standard on all ratings. Line-side terminal shrouds standard on C- and V-Frames up through 100A.
④ Discontinued. Standard on C- and V-Frames up through 100A.
⑤ Load-side terminal shrouds provided as standard on all ratings. Line-side terminal shrouds standard on fusible switches up through 60A.
⑥ Kit of 3.
⑦ Standard on Fusible up through 60A and Non-Fusible up through 100A.
⑧ Kit of 3.
⑨ Kit of 6.

Discount Symbol **22-CD**

Product Selection — Handles and Shafts

Table 5. Handles and Shafts

Black Selector Handle

Red/Yellow Selector Handle

Selector Shafts

NEMA Rating	Defeatable	Padlockable	Color	Operation	IEC Type	Dimensions		Catalog Number	Price U.S. $
						Inches	mm		
Selector Handle for Type CSSA __ Shaft and M-, R- and W-Frames or CSCSA __ Shaft and C-Frames									
1	No	No	Black	ON/OFF	IP54	①	—	**CSBR5**	24.90
1, 3R, 12, 4, 4X	No	Yes	Red/Yellow	ON/OFF, I/O	IP65	—	—	**CSYR6**	24.90
1, 3R, 12, 4, 4X	No	Yes	Black	ON/OFF, I/O	IP65	—	—	**CSBR6**	24.90
Rotary Switch Selector Shaft 5 x 5 mm (For Selector Handle and M-, R- and W-Frames)									
						2.2	55	**CSSA055**	6.60
						4.3	110	**CSSA110**	6.60
						5.9	150	**CSSA150**	9.80
						7.1	180	**CSSA180**	9.80
						7.9	200	**CSSA200**	9.80
						11.8	305	**CSSA300**	22.70
Rotary Switch Selector Shaft 5 x 5 mm (For Selector Handle and C-Frames)									
						4.7	120	**CSCSA120**	8.00
						7.9	200	**CSCSA200**	9.80
						12.6	320	**CSCSA320**	16.20
						15.7	400	**CSCSA400**	26.00

Black Pistol Handle (Type D)

Red/Yellow Pistol Handle (Type D)

Type D Pistol Shafts

NEMA Rating	Defeatable	Padlockable	Color	Operation	IEC Type	Dimensions		Catalog Number	Price U.S. $
						Inches	mm		
Type D Pistol Handle (For Use with CPDSA __ Shafts and M-, R- and W-Frames)									
1, 3R, 12	No	Yes	Black	ON/OFF, I/O	IP54	①	—	**CPBR5N**	30.00
1, 3R, 12	No	Yes	Red/Yellow	ON/OFF, I/O	IP54	—	—	**CPYR5N**	30.00
1, 3R, 12	Yes	Yes	Black	ON/OFF, I/O	IP54	—	—	**CPBR5D**	34.00
1, 3R, 12	Yes	Yes	Red/Yellow	ON/OFF, I/O	IP54	—	—	**CPYR5D**	34.00
Type D Shafts 5 x 5 mm (For Use with Type D Pistol Handles and M-, R- and W-Frames)									
						4.7	120	**CPDSA120**	8.00
						7.9	200	**CPDSA200**	9.80
						12.6	320	**CPDSA320**	16.20
						15.7	400	**CPDSA400**	26.00
Direct Handle M-Frame (For Direct Mounting — No Separate Shaft Required)									
1, 3R, 12	No	Yes	Black	ON/OFF	IP54	①	—	**CNMBH**	5.00
Direct Handle R-, W-Frames (For Direct Mounting — No Separate Shaft Required)									
1, 3R, 12	No	Yes	Black	ON/OFF	IP54	①	—	**CDRR3**	8.00
1, 3R, 12	No	Yes	Black	ON/OFF	IP54	—	—	**CDRW3**	9.00
1, 3R, 12	No	Yes	Black	ON/OFF	IP54	—	—	**CDRR4**	9.00

① Please refer to **Page 17**.

Discount Symbol **22-CD**

Table 5. Handles and Shafts (Continued)

Black Pistol Handle (Type G)

Red/Yellow Pistol Handle (Type G)

Type G Pistol Shafts

NEMA Rating	Defeatable	Padlockable	Color	Operation	IEC Type	Dimensions		Catalog Number	Price U.S. $
						Inches	mm		
Type G Pistol Handle (For Use with M-, R-, W- and C-Frames with 5 x 5 Shaft and V-Frame Below 100A with 10 x 10 Shaft)									
1, 3R, 12	Yes	Yes	Black	ON/OFF, I/O	IP54	①	—	**CPBR5**	64.00
1, 3R, 12	Yes	Yes	Red/Yellow	ON/OFF, I/O	IP54	—	—	**CPYR5**	64.00
1, 3R, 12, 4, 4X	Yes	Yes	Black	ON/OFF, I/O	IP65	—	—	**CPBW6**	74.00
1, 3R, 12, 4, 4X	Yes	Yes	Red/Yellow-	ON/OFF, I/O	IP65	—	—	**CPYW6**	74.00
1, 3R, 12, 4, 4X	Yes	Yes	Black	TEST/ON/OFF	IP65	①	—	**CPBW6T**	94.00
1, 3R, 12, 4, 4X	Yes	Yes	Red/Yellow	TEST/ON/OFF	IP65	—	—	**CPYW6T**	94.00
Type GL Long Pistol Handle (For Use with V-Frame 100A and Above with 10 x 10 Shaft)									
1, 3R, 12	Yes	Yes	Black	ON/OFF, I/O	IP54	①	—	**CPBVR5**	70.00
1, 3R, 12	Yes	Yes	Red/Yellow	ON/OFF, I/O	IP54	—	—	**CPYVR5**	70.00
1, 3R, 12, 4, 4X	Yes	Yes	Black	ON/OFF, I/O	IP65	—	—	**CPBVW6**	127.00
1, 3R, 12, 4, 4X	Yes	Yes	Red/Yellow	ON/OFF, I/O	IP65	—	—	**CPYVW6**	127.00
1, 3R, 12	Yes	Yes	Black	TEST/ON/OFF	IP65	—	—	**CPBVW6T**	130.00
1, 3R, 12	Yes	Yes	Red/Yellow	TEST/ON/OFF	IP65	—	—	**CPYVW6T**	130.00
Type G Shafts 5 x 5 mm (For Use with Type G Pistol Handle and M-, R- and W-Frames)									
						4.7	120	**CPGSA120**	8.00
						7.9	200	**CPGSA200**	9.80
						12.6	320	**CPGSA320**	16.20
						15.7	400	**CPGSA400**	26.00
Type G Shafts 5 x 5 mm (For Use with Type G Pistol Handle and C-Frames)									
						4.7	120	**CPGCSA120**	8.00
						7.9	200	**CPGCSA200**	9.80
						12.6	320	**CPGCSA320**	16.20
						15.7	400	**CPGCSA400**	26.00
Type G Shafts 10 x 10 mm (For Use with Type G and GL Pistol Handles and V-Frames)									
						7.9	200	**CPGSB200**	22.00
						12.6	320	**CPGSB320**	36.00
						15.7	400	**CPGSB400**	44.00

Pistol Handle (Type H)

NEMA Rating	Defeatable	Padlockable	Color	Operation	IEC Type	Dimensions		Catalog Number	Price U.S. $
						Inches	mm		
Type H Pistol Handle (For Use with S-Frames with 15 x 15 Shaft)									
1, 3R, 4, 4X, 12	Yes	Yes	Black	ON/OFF, I/O	IP65	①	—	**CPBSW6D**	214.00
1, 3R, 4, 4X, 12	Yes	Yes	Red/Yellow	ON/OFF, I/O	IP65	—	—	**CPYSW6D**	214.00
1, 3R, 4, 4X, 12	No	Yes	Black	ON/OFF, I/O	IP65	—	—	**CPBSW6N**	128.00
1, 3R, 4, 4X, 12	No	Yes	Red/Yellow	ON/OFF, I/O	IP65	—	—	**CPYSW6N**	128.00
Type H Pistol Handle (For Use with F-Frames with 15 x 15 Shaft)									
1, 3R, 4, 4X, 12	Yes	Yes	Black	ON/OFF, I/O	IP65	①	—	**CPBFW6D**	214.00
1, 3R, 4, 4X, 12	Yes	Yes	Red/Yellow	ON/OFF, I/O	IP65	—	—	**CPYFW6D**	214.00
1, 3R, 4, 4X, 12	No	Yes	Black	ON/OFF, I/O	IP65	—	—	**CPBFW6N**	128.00
1, 3R, 4, 4X, 12	No	Yes	Red/Yellow	ON/OFF, I/O	IP65	—	—	**CPYFW6N**	128.00
Type H Shafts 15 x 15 mm (For Use with Type H Pistol Handle and S- and F-Frames)									
						7.9	200	**CPHSC200**	29.00
						15.7	400	**CPHSC400**	40.00

① Please refer to **Page 17**.

Discount Symbol **22-CD**

Enclosed Switches

Specifications

- 16 – 125A.
- 600V, 3-, 4-pole non-fusible device.
- Accepts auxiliary contacts.
- Meets NEC Article 430.
- Ground lug connection provided.
- UL listed under section 508, and cUL listed, CSA pending.

Enclosed Rotary Switches

Table 6. Non-Fusible

Ampere Rating	Maximum Horsepower Ratings — Volts AC					NEMA 1 Enclosure Indoor		NEMA 3R/12 Enclosure Dust-tight/Rainproof		NEMA 4X Enclosure Corrosion Resistant Stainless Steel		NEMA 4X Enclosure Corrosion Resistant Non-Metallic	
	3-Phase AC												
	200V	208V	240V	480V	600V	Catalog Number	Price U.S. $	Catalog Number	Price U.S. $	Catalog Number	Price U.S. $	Catalog Number	Price U.S. $
Non-Fusible 3-Pole, 600V AC													
16	—	—	2	7.5	7.5	**DR3016UG**	156.	**DR3016UD**	224.	**DR3016UW**	445.	**DR3016UX**	348.
25	—	—	5	10	15	**DR3025UG**	168.	**DR3025UD**	237.	**DR3025UW**	470.	**DR3025UX**	367.
30	—	—	7.5	15	25	**DR3030UG**	180.	**DR3030UD**	250.	**DR3030UW**	495.	**DR3030UX**	387.
40	10	10	10	20	30	**DR3040UG**	199.	**DR3040UD**	277.	**DR3040UW**	550.	**DR3040UX**	430.
60	—	—	15	30	40	**DR3060UG**	232.	**DR3060UD**	311.	**DR3060UW**	610.	**DR3060UX**	493.
80	15	15	20	40	50	**DR3080UG**	265.	**DR3080UD**	345.	**DR3080UW**	670.	**DR3080UX**	555.
100	—	—	25	50	60	**DR3100UG**	535.	**DR3100UD**	615.	**DR3100UW**	1,620.	**DR3100UX**	1,310.
125	—	—	30	60	75	**DR3125UG**	680.	**DR3125UD**	760.	**DR3125UW**	1,765.	**DR3125UX**	1,455.
Non-Fusible 4-Pole, 600V AC													
16	—	—	2	7.5	7.5	**DR4016UG**	215.	**DR4016UD**	298.	**DR4016UW**	592.	**DR4016UX**	463.
25	—	—	5	10	15	**DR4025UG**	227.	**DR4025UD**	315.	**DR4025UW**	625.	**DR4025UX**	488.
30	—	—	7.5	15	25	**DR4030UG**	239.	**DR4030UD**	332.	**DR4030UW**	658.	**DR4030UX**	515.
40	—	—	10	20	30	**DR4040UG**	265.	**DR4040UD**	368.	**DR4040UW**	731.	**DR4040UX**	572.

Note: See **Page 6** for auxiliary contact kits. Contact the Safety Switch Flex Center (1-888-329-9272) for availability of higher ampere non-fusible/fusible ratings as well as other special features or accessories. Contact Cutler-Hammer for horsepower ratings not shown.

Discount Symbol **22-CD**

Technical Data and Specifications

Dimensions in Inches (mm)

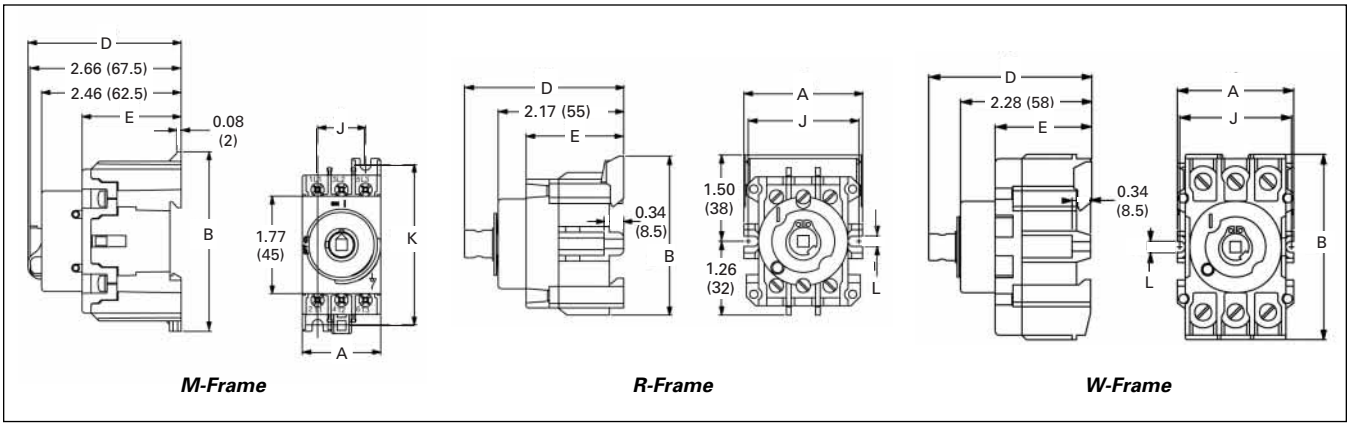

Figure 4. M-, R- and W-Frames

Table 7. M-, R- and W-Frames — Dimensions in Inches (mm)

Frame	Ampere Rating	A	B	D	E	J	K	L
M	16 – 25	1.42 (36.1)	3.15 (80.0)	2.75 (69.9)	1.75 (44.5)	0.87 (22.1)	2.91 (73.9)	—
R	30 – 40	2.00 (50.8)	2.75 (69.9)	2.68 (68.1)	1.65 (41.9)	1.89 (48.0)	—	0.17 (4.3)
W	60 – 125	2.09 (53.1)	3.35 (85.1)	2.88 (73.2)	1.69 (42.9)	2.05 (52.1)	—	0.17 (4.3)

Note: Frame is designated by the sixth character in the switch catalog number.

Dimensions in Inches (mm)

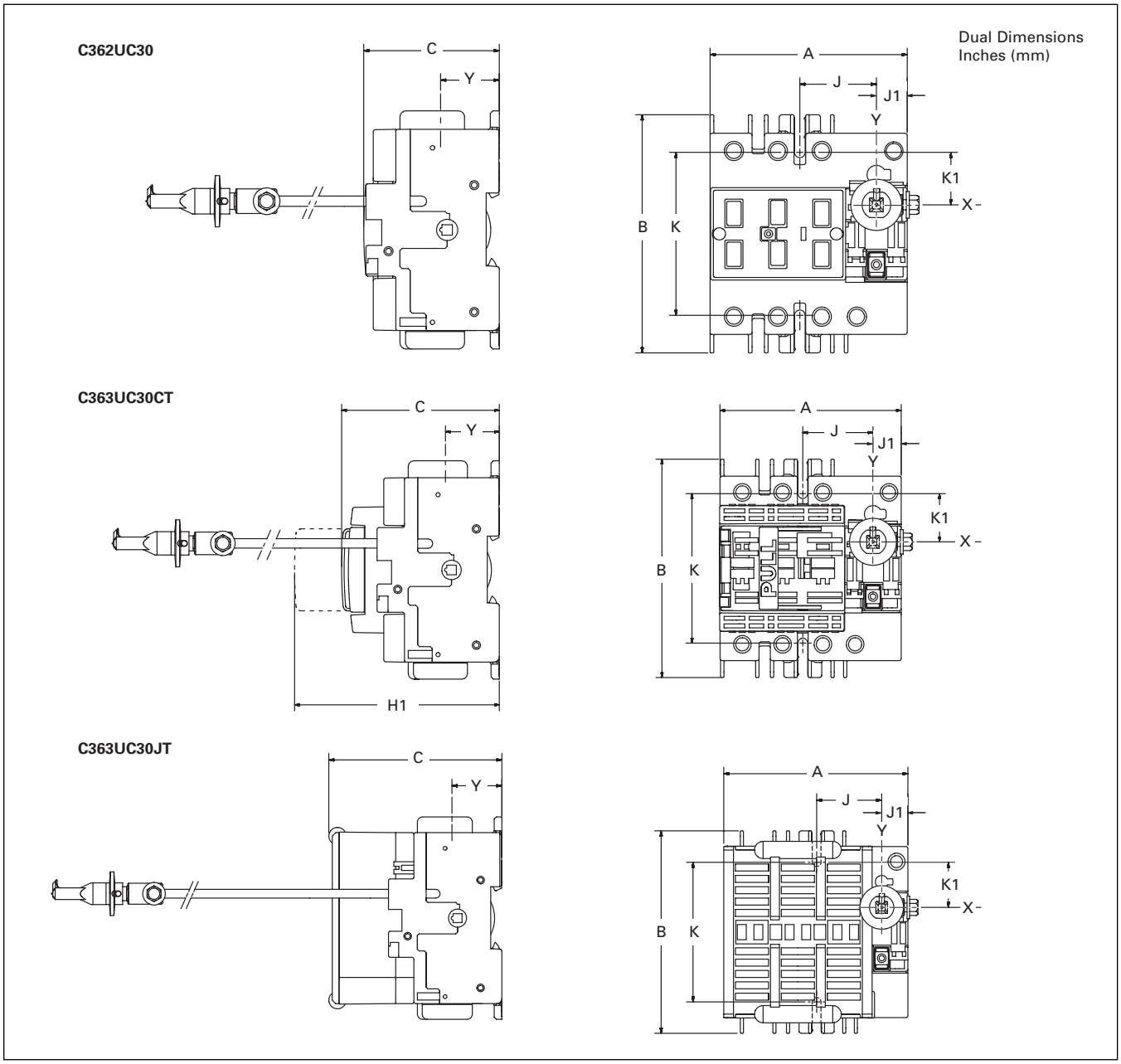

Figure 5. C-Frames

Table 8. C-Frames — Dimensions in Inches (mm)

Catalog Number	No. of Poles	A	B	C	H	H1	H2	H3	J	J1	K	K1	Y
C362UC30	3-Pole	3.78 (96.0)	4.56 (115.8)	2.59 (65.8)	—	—	—	—	1.47 (37.3)	0.59 (15.0)	3.13 (79.5)	1.00 (25.4)	1.12 (28.4)
C363UC30CT	3-Pole	3.78 (96.0)	4.56 (115.8)	3.28 (83.3)	—	5.19 (131.8)	—	—	1.47 (37.3)	0.59 (15.0)	3.13 (79.5)	1.00 (25.4)	1.12 (28.4)
C363UC30JT	3-Pole	4.13 (104.9)	4.56 (115.8)	3.89 (98.8)	—	—	—	—	1.47 (37.3)	0.59 (15.0)	3.30 (83.8)	1.00 (25.4)	1.12 (28.4)

Dimensions in Inches (mm)

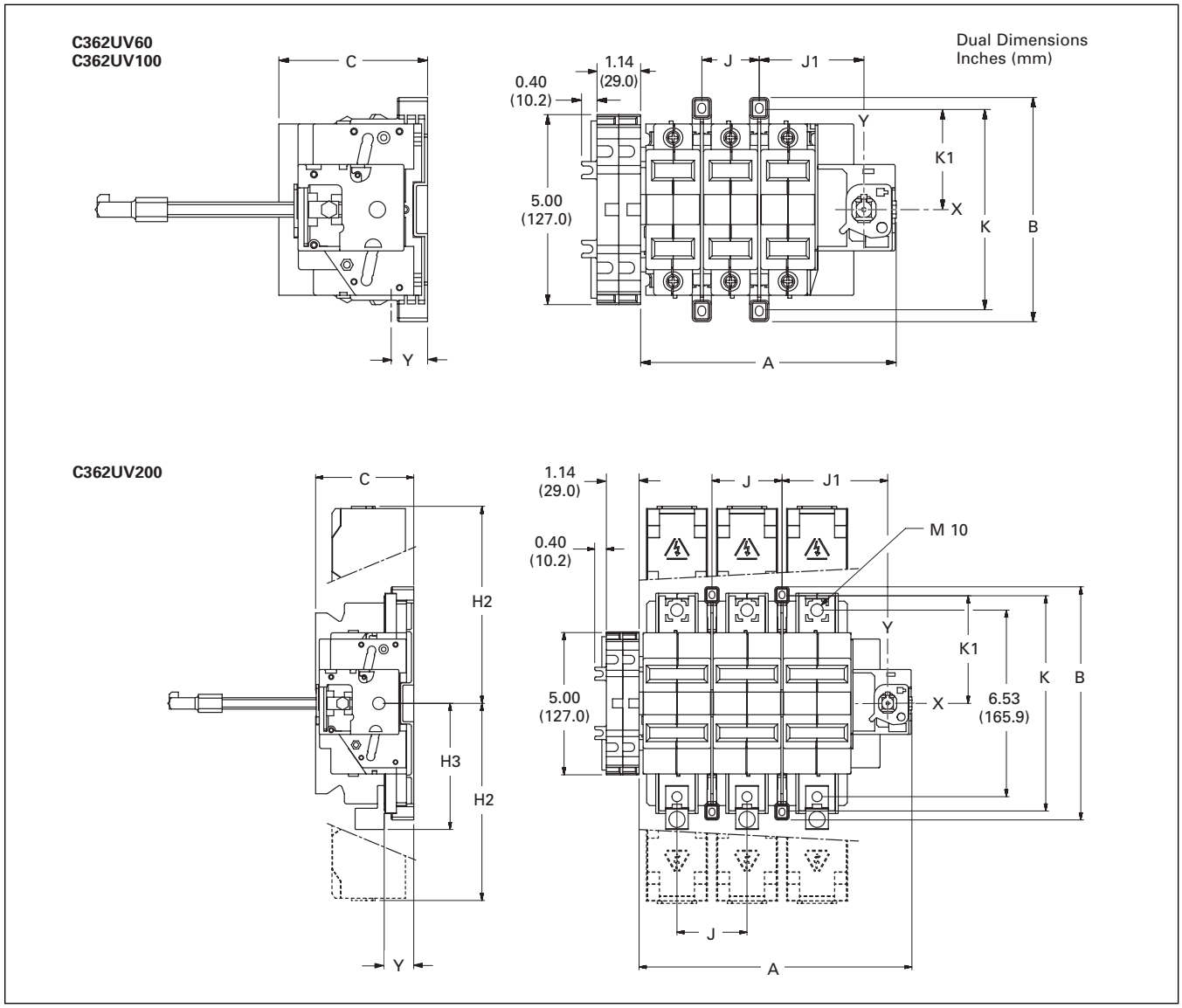

Figure 6. Non-Fusible V-Frames

Table 9. Non-Fusible V-Frames — Dimensions in Inches (mm)

Catalog Number	No. of Poles	A	B	C	H	H1	H2	H3	J	J1	K	K1	Y
C362UV60	3-Pole	6.69 (169.9)	5.87 (149.1)	3.89 (98.8)	—	—	—	—	1.50 (38.1)	2.75 (69.9)	5.25 (133.4)	2.63 (66.8)	0.95 (24.1)
C362UV100	3-Pole	6.69 (169.9)	5.87 (149.1)	3.89 (98.8)	—	—	—	—	1.50 (38.1)	2.75 (69.9)	5.25 (133.4)	2.63 (66.8)	0.95 (24.1)
C362UV200	3-Pole	9.52 (241.8)	8.13 (206.5)	3.42 (86.9)	—	—	6.87 (174.5)	4.39 (111.5)	2.44 (62.0)	3.68 (93.5)	7.50 (190.5)	3.74 (95.0)	0.95 (24.1)

Dimensions in Inches (mm)

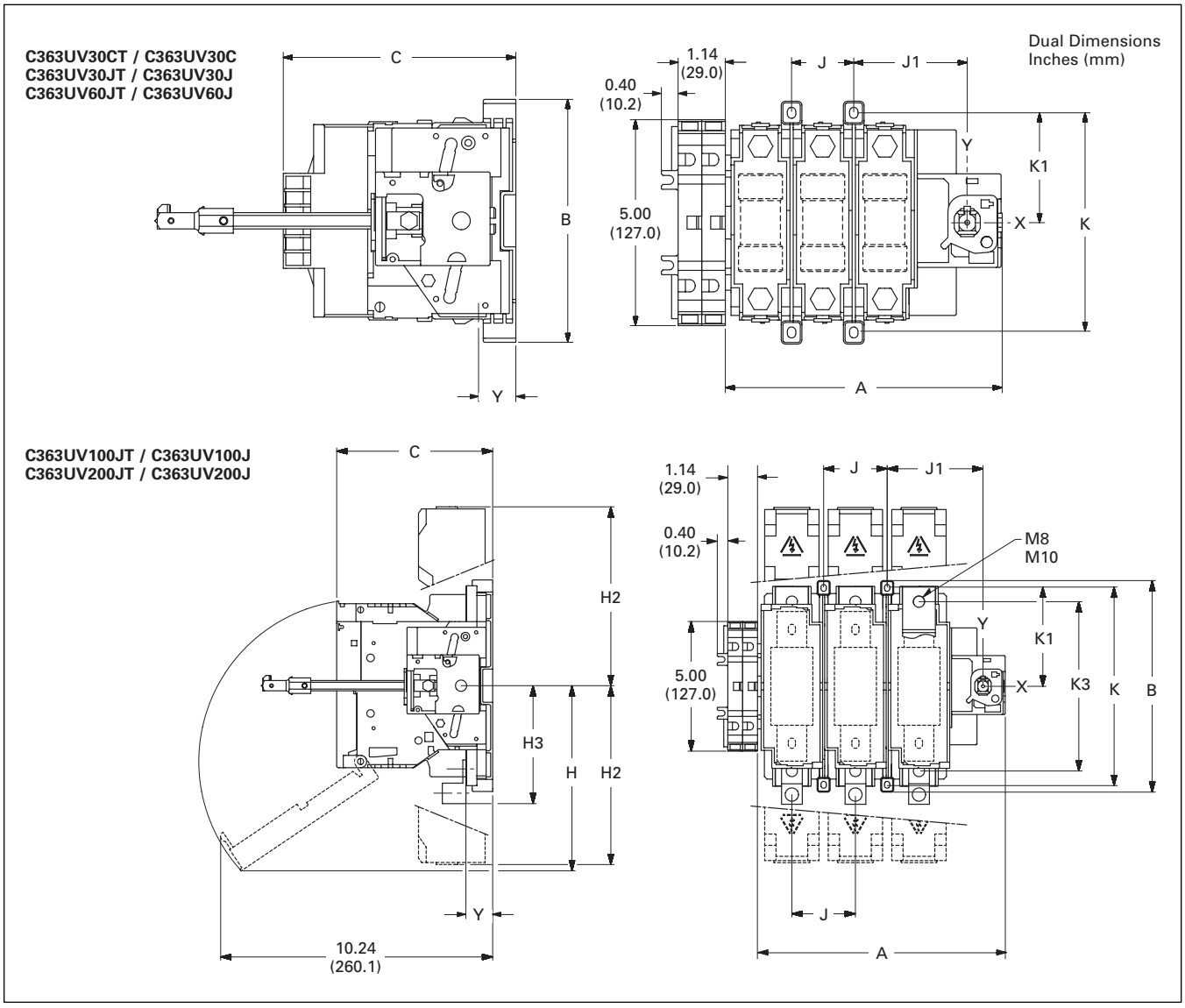

Figure 7. Fusible V-Frames

Table 10. Fusible V-Frames — Dimensions in Inches (mm)

Catalog Number	No. of Poles	A	B	C	H	H2	H3	J	J1	K	K1	K3	Y
C363UV30CT C363UV30C	3-Pole	5.63 (143.0)	5.87 (149.1)	3.89 (98.8)	—	—	—	1.14 (29.0)	2.38 (60.5)	5.31 (134.9)	2.63 (66.8)	—	1.21 (30.7)
C363UV30JT C363UV30J	3-Pole	6.72 (170.7)	5.87 (149.1)	5.62 (142.7)	—	—	—	1.50 (38.1)	2.75 (69.9)	5.31 (134.9)	2.63 (66.8)	—	0.95 (24.1)
C363UV60JT C363UV60J	3-Pole	6.72 (170.7)	5.87 (149.1)	5.62 (142.7)	—	—	—	1.50 (38.1)	2.75 (69.9)	5.31 (134.9)	2.63 (66.8)	—	0.95 (24.1)
C363UV100JT C363UV100J	3-Pole	8.26 (209.8)	7.19 (182.6)	5.63 (143.0)	4.06 (103.1)	5.27 (133.9)	3.66 (93.0)	2.05 (52.1)	3.28 (83.3)	6.61 (167.9)	3.28 (83.3)	5.55 (141.0)	1.00 (25.4)
C363UV200JT C363UV200J	3-Pole	9.44 (239.8)	8.13 (206.5)	6.00 (152.4)	7.27 (184.7)	6.87 (174.5)	4.79 (121.7)	2.44 (62.0)	3.68 (93.5)	7.56 (192.0)	3.75 (95.3)	6.53 (165.9)	1.03 (26.2)

Dimensions in Inches (mm)

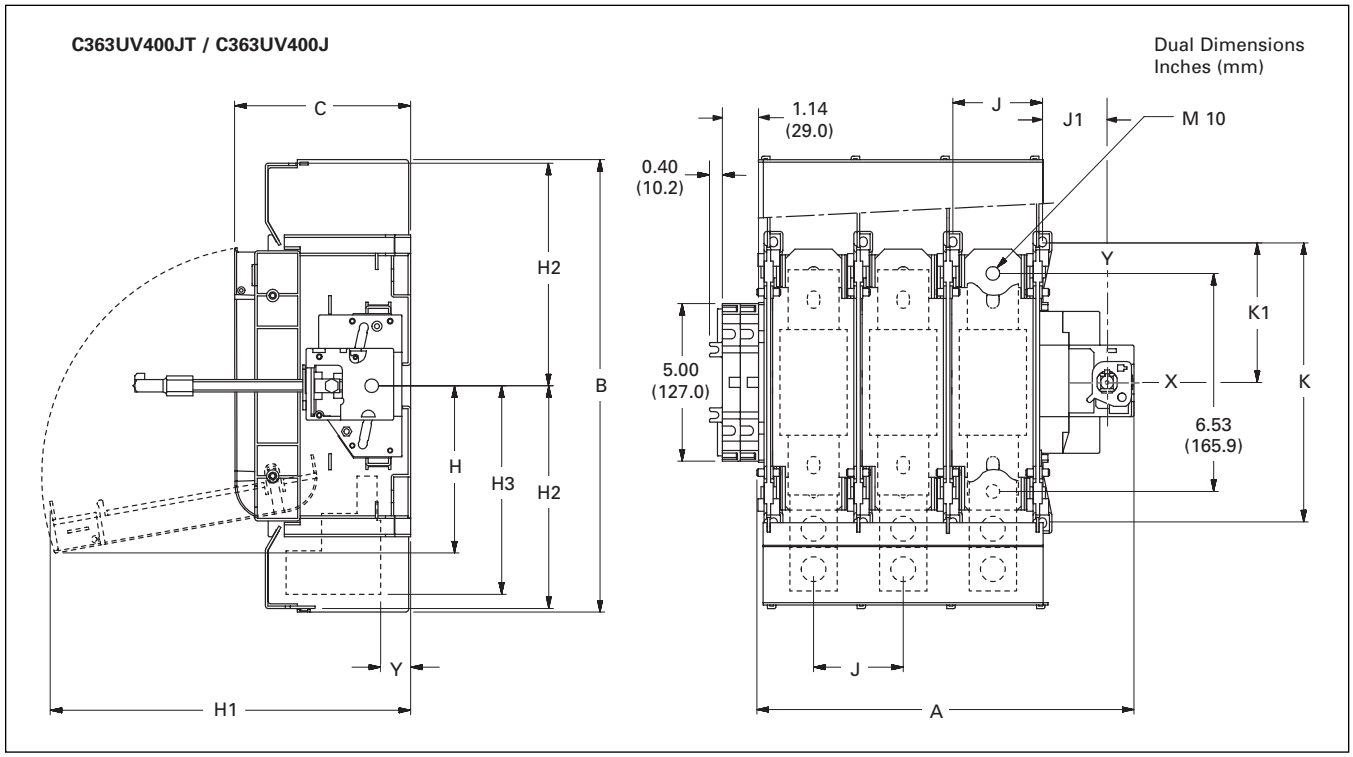

Figure 8. Fusible V-Frames (Continued)

Table 11. Fusible V-Frames — Dimensions in Inches (mm)

Catalog Number	No. of Poles	A	B	C	H	H1	H2	H3	J	J1	K	K1	Y
C363UV400JT/ C363UV400J	3-Pole	11.93 (303.0)	14.31 (363.5)	5.56 (141.2)	5.28 (134.1)	11.41 (289.8)	7.04 (178.8)	6.59 (167.4)	2.84 (72.1)	2.04 (51.8)	8.83 (224.3)	4.41 (112.0)	1.06 (26.9)

Dimensions in Inches (mm)

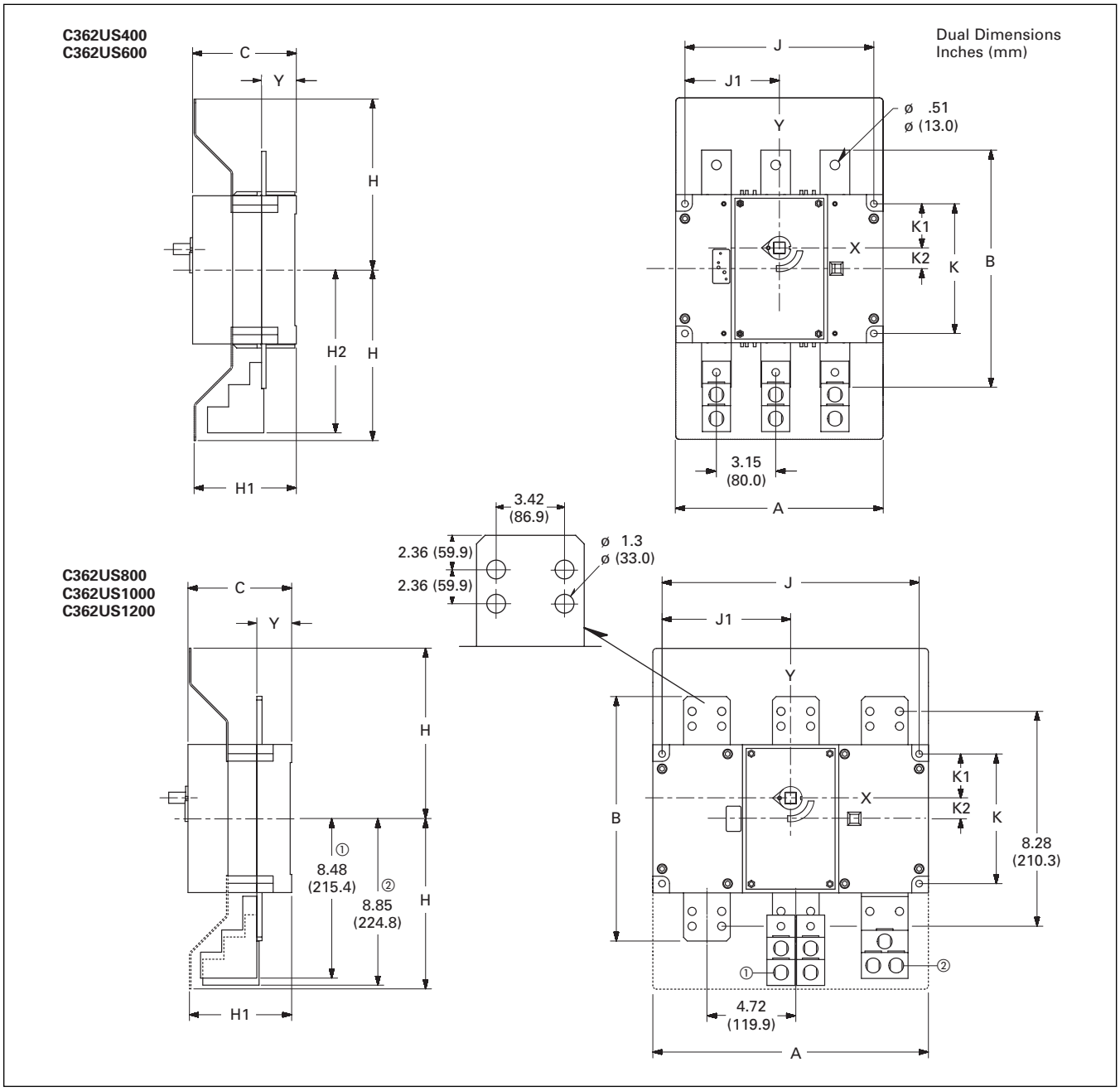

Figure 9. Non-Fusible S-Frames

① **C362US1200** when used with optional terminal lugs **CUS1200LN**.

② **C362US800** and **C362US1000** and when used with optional terminal lugs **CUS1000LN**.

Table 12. Non-Fusible S-Frames — Dimensions in Inches (mm)

Catalog Number	No. of Poles	A	B	C	H	H1	H2	J	J1	K	K1	K2	Y
C362US400 C362US600	3-Pole	11.02 (279.9)	12.60 (320.0)	5.51 (140.0)	9.05 (229.9)	5.43 (137.9)	8.66 (220.0)	11.04 (280.4)	5.00 (127.0)	6.88 (174.8)	2.34 (59.4)	1.10 (27.9)	1.85 (47.0)
C362US800 C362US1000 C362US1200	3-Pole	14.64 (371.9)	13.00 (330.2)	5.51 (140.0)	9.05 (229.9)	5.43 (137.9)	—	13.66 (347.0)	6.83 (173.5)	6.88 (174.8)	2.34 (59.4)	1.10 (27.9)	1.85 (47.0)

Dimensions in Inches (mm)

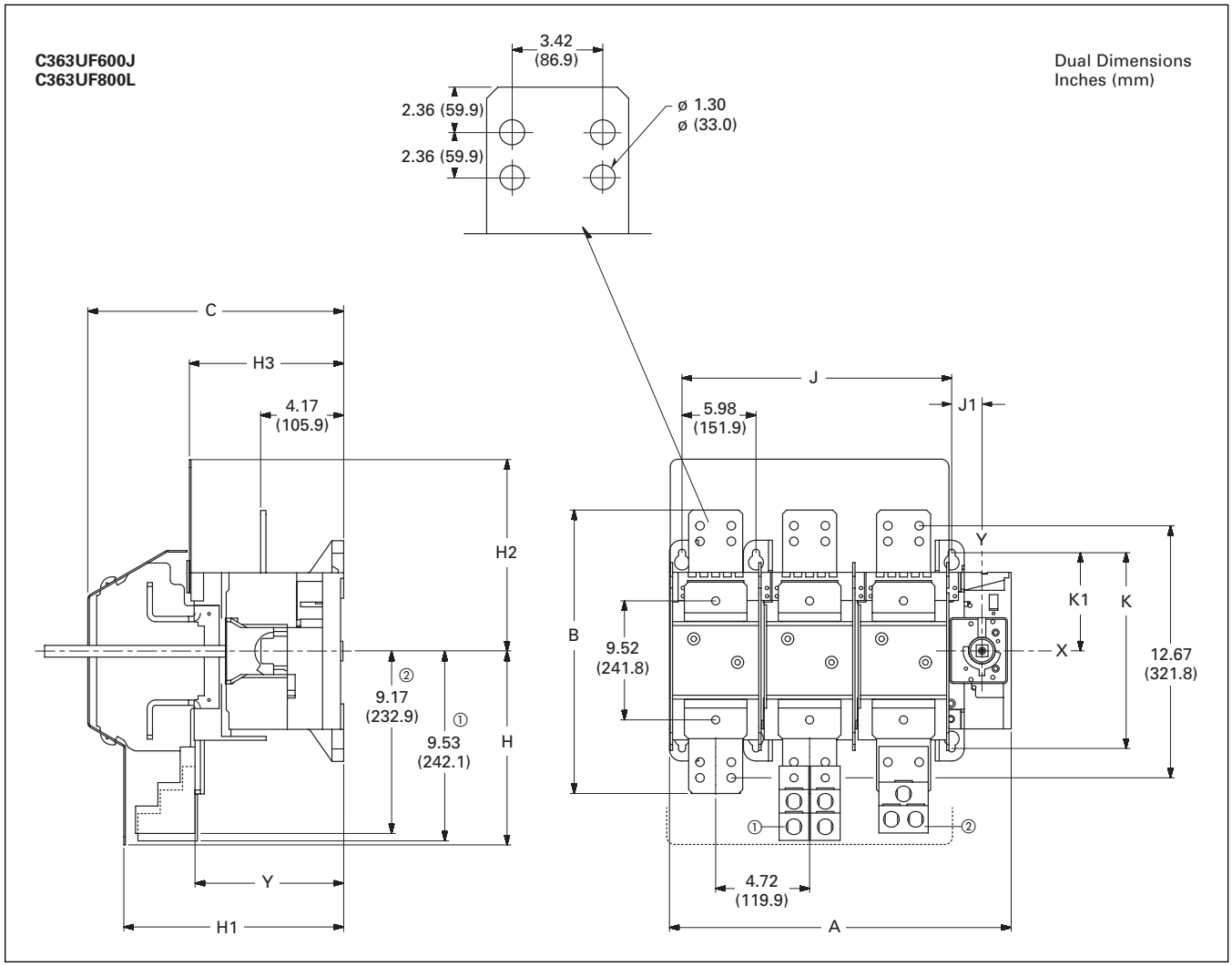

Figure 10. Fusible F-Frames

① **C363UF800L** when used with optional terminal lugs **CUS1000LN**.
② **C363UF600J** when used with optional terminal lugs **CUS600LN**.

Table 13. Fusible F-Frames — Dimensions in Inches (mm)

Catalog Number	No. of Poles	A	B	C	H	H1	H2	H3	J	J1	K	K1	Y
C363UF600J C363UF800L	3-Pole	17.18 (436.4)	14.25 (362.0)	12.87 (326.9)	9.74 (247.4)	11.06 (280.9)	8.66 (220.0)	7.75 (196.9)	13.58 (345.0)	1.51 (38.4)	9.84 (250.0)	4.92 (125.0)	7.48 (190.0)

Handles — Dimensions in Inches (mm)

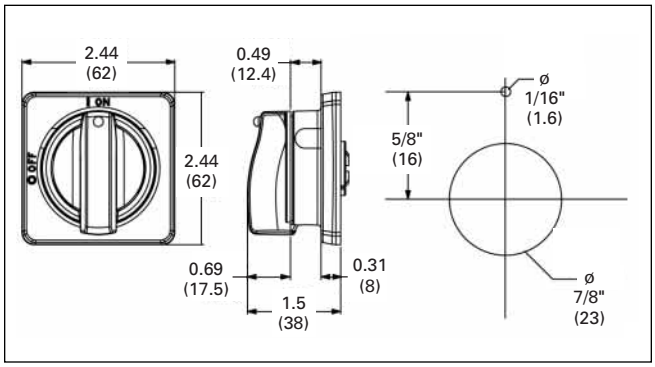

Figure 11. Selector Handle

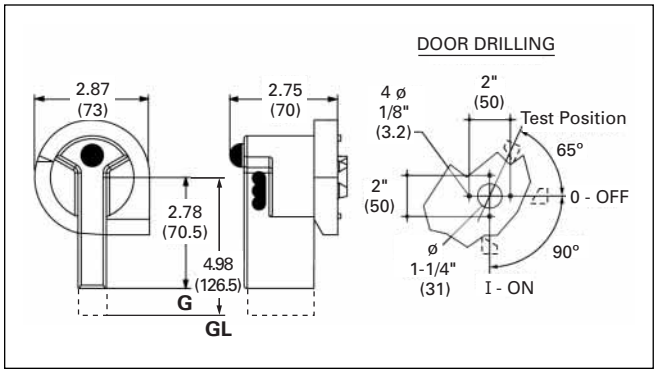

Figure 12. Type G and Type GL Pistol Handles

Table 14. Mounting Depth — Dimensions in Inches (mm)

Frame	Handle Type			
	M	D	G	H
M R W	3.00 (76) 3.00 (76) 3.27 (83)	3.76 (96) 3.76 (96) 3.94 (100)	3.78 (96) 3.78 (96) 3.94 (100)	— — —
C (CC or Non-fusible) C (J-Class Fuse)	3.94 (100) —	4.13 (105) 5.91 (150)	4.13 (105) 5.12 (130)	— —
V (30A CC or Non-Fusible V (30A J – 60A J) V (60A – 200A Non-Fusible) V (100A J – 200A J) V (400A J)	— — — — —	— — — — —	3.94 (100) 6.10 (155) 4.53 (115) 6.50 (165) 6.89 (175)	— — — — —
S (400A – 600A) S (800A – 1200A)	— —	— —	— —	8.35 (212) 8.35 (212)
F (600A – 800A J)	—	—	—	16.38 (416)

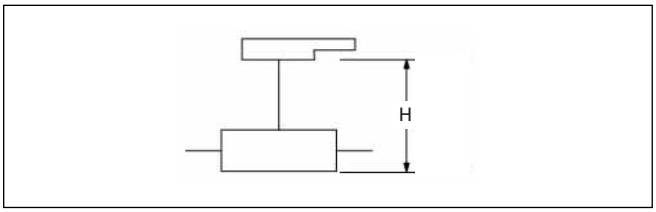

Figure 13. Mounting Depth

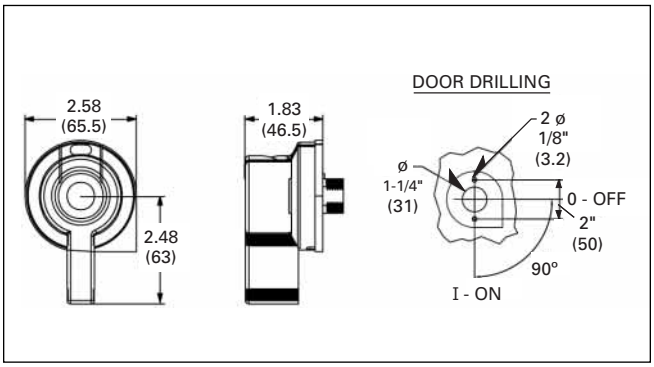

Figure 14. Type D Pistol Handle

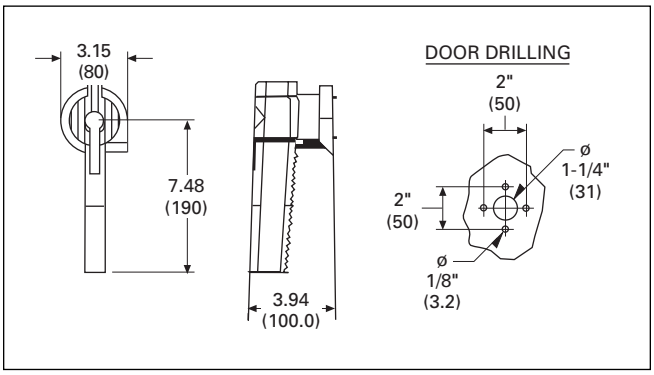

Figure 15. Type H Pistol Handle

Technical Characteristics

Table 15. UL 508 Technical Characteristics

Description		M-Frame			R-Frame		W-Frame			
		Catalog Number			Catalog Number		Catalog Number			
		C362NM16	C362NM20	C362NM25	C362NR30	C362NR40	C362NW60	C362NW80	C362NW100	C362NW125
Ampere Rating (3 Poles)		16	20	25	30	40	60	80	100	125
UL Approval		UL508/cUL	UL508/cUL	UL508/cUL	UL508/cUL	UL508/cUL	UL508/cUL	UL508/cUL	UL508/cUL	UL508/cUL
Short Circuit Rating (kA)		5	5	5	10	10	10	10	10	10
Fuse Type		RK5	RK5	RK5	RK5	RK5	RK5	RK5	RK5	RK5
Fuse Rating (Amperes)		30	30	30	80	80	150	150	150	150
Maximum UL Horsepower Ratings (3-Phase)	220 – 240V AC	2	3	5	7.5	10	15	20	25	25
	440 – 480V AC	7.5	7.5	10	15	20	30	40	50	50
	600V AC	7.5	10	15	25	30	40	50	60	60
Maximum UL Horsepower Ratings (1-Phase)	120V AC	0.5	1	1.5	2	2	3	5	5	5
	240V AC	1.5	2	3	5	5	10	15	15	15
Electrical Endurance	(Operation Cycles)	6000	6000	6000	6000	6000	6000	6000	6000	6000
Mechanical Endurance	(Operation Cycles)	6000	6000	6000	6000	6000	6000	6000	6000	6000
Terminal Lugs	Wire Size	#6 – #10	#6 – #10	#6 – #10	#14 – #8	#14 – #8	#14 – #3	#14 – #3	#14 – #3	#14 – #3
	Wire Type	Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu
Weight in Lbs. (kg)		.32 (.15)	.32 (.15)	.32 (.15)	.44 (.20)	.44 (.20)	.66 (.30)	.66 (.30)	.66 (.30)	.66 (.30)

Table 16. IEC Technical Characteristics

Description	M-Frame			R-Frame		W-Frame			
	Catalog Number			Catalog Number		Catalog Number			
	C362NM16	C362NM20	C362NM25	C362NR30	C362NR40	C362NW60	C362NW80	C362NW100	C362NW125
Thermal Current Ith (40°C) (Amperes)	16	20	25	32	40	63	80	100	125
Rated Insulation Voltage Ui (V)	800	800	800	690	690	690	690	690	690
Rated Inpulse Withstand Uimp (kV)	8	9	8	8	8	8	8	8	8
Operational Current (Amperes)	3 Poles	3 Poles	3 Poles	3 Poles	3 Poles	3 Poles	3 Poles	3 Poles	3 Poles
400V AC – AC 22A – AC 23A	16 16	20 20	25 25	32 25	40 25	63 63	80 63	80 63	80 63
500V AC – AC 22A – AC 23A	16 16	20 16	25 20	32 25	40 25	63 45	80 45	80 45	80 45
690V AC – AC 22A – AC 23A	16 16	20 16	25 20	32 25	40 25	63 40	80 40	80 40	80 40
Motor Power (kW)									
400V AC – AC 23	8	9	11	11	11	25	25	25	25
500V AC – AC 23	9	9	11	15	15	25	25	25	25
690V AC – AC 23	12.5	12.5	15	22	22	25	25	25	25
Overload Capacity									
Short Circuit Current with Fuses (kA rms)	50	50	50	50	50	50	50	50	50
Maximum Rating for Associated Fuses gG (Amperes)	16	20	25	32	40	63	80	80	80
Cutoff Current	5.9	5.9	5.9	5	5	8	8	8	8
Short Time Withstand Current Icw 1 s (kA)	1.2	1.2	1.2	1	1	1.5	1.5	1.5	1.5
Withstand									
Mechanical	100,000	100,000	100,000	20,000	20,000	20,000	20,000	20,000	20,000
Electrical (400V AC 23)	1500	1500	1500	1500	1500	1500	1500	1500	1500
Connection									
Cu (mm^2)	1.5 to 6	1.5 to 6	1.5 to 6	1.5 to 16	1.5 to 16	1.5 to 35	1.5 to 35	1.5 to 35	1.5 to 35

Table 17. UL 98 and CSA Technical Characteristics

Description		Frame									
		C	V	V	V	V	S and V	S and F	S and F	S	S
Ampere Rating (3 Poles)		30	30	60	100	200	400	600	800	1000	1200
UL Approval		UL 98/cUL	UL 98/cUL	UL 98/cUL	UL 98/cUL	UL 98/cUL	UL 98/cUL	UL 98/cUL	UL 98/cUL	UL 98/cUL	UL 98/cUL
Short Circuit Rating (kA)		50	100/200	200	200	200	200	200	100	100	100
Fuse Type (if applicable)		J or CC	CC/J	J	J	J	J	J	L	L	L
Fuse Rating (Amperes)		30	30	60	100	200	400	600	800	1000	1200
Maximum UL Horsepower Ratings (3-Phase)	240V AC	7.5/22	7.5/22	15/42	30/80	60/154	125/312	200/480	250/602	250/602	250/602
	480V AC	15/21	15/21	30/40	60/77	125/156	250/302	400/477	500/590	500/590	500/590
	600V AC	20/22	20/22	50/52	75/77	150/144	350/336	350/336	500/472	500/472	500/472
	DC 125V	3/25 ①	3/25	3/25 ①	7.5/58 ①	15/112 ①	20/148 ①	20/148 ①	—	—	—
	DC 250V	5/20 ①	5/20	10/38 ②	20/72 ②	40/140 ②	50/173 ②	50/173 ②	—	—	—
Electrical Endurance	(Operation Cycles)	6000	6000	6000	6000	6000	1000	1000	500	500	500
Mechanical Endurance	(Operation Cycles)	10,000	10,000	10,000	10,000	8000	6000	6000	3500	3500	3500
Shaft Size Square	Inches (mm)	.2 x .2 (5 x 5)	.4 x .4 (10 x 10)	.4 x .4 (10 x 10)	.4 x .4 (10 x 10)	.4 x .4 (10 x 10)	.59 x .59 (15 x 15)/ .4 x .4 (10 x 10) ③	.59 x .59 (15 x 15)	.59 x .59 (15 x 15)	.59 x .59 (15 x 15)	.59 x .59 (15 x 15)
Switch Operating Torque	16-inch (406.4 mm)	21	88	88	88	88	320/132	350	350	350	350
Terminal Lugs	Wire Size	#10 – #14	#10 – #14	#3 – #10	#2/0 – #10	3/0 – #6	2 x 2	2 x 2	2 x 2	2 x 2	2 x 2
	Wire Type	Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu
Weight in Lbs. (kg)		1.1 (.50)	1.1 (.50)	2.0 (.91)	2.5 (1.1)	4.4 (2.0)	8.8 (4.0)	9.9 (4.5)	22.0 (10.0)	28.6 (13.0)	30.8 (14.0)

① 2-pole in series.
② 3-pole in series.
③ 15 x 15 shaft for Non-Fusible and 10 x 10 shaft for Fusible, 400A.

Notes

Company Information

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Printed in USA
Publication No. PG00802001E
April 2002