Industrial Light Commercial Residential Agricultural

An economical means of transferring power



Double-throw safety switches

Eaton's double-throw safety switches are used to transfer service from a normal power source to an alternate source, or to switch from one load circuit to another. The manually operated double-throw safety switch provides an economical means of transferring power. Eaton offers a full line of general-duty and heavy-duty double-throw safety switches.



General-duty

Eaton's general-duty doublethrow safety switches are commonly applied in emergency power or generator applications to reduce or eliminate the costly impact of power loss from the typical source in residential, agricultural and light commercial markets. All general-duty double-throw safety switches are non-fusible and are available

A standby generator connected to a residential wiring system must be installed according to the National Electrical Code.® A double-throw switch must be installed to isolate and disconnect wiring from normal utility lines so that generator-produced electricity is not back-fed onto normal utility lines. Whether normal electrical service is disrupted by severe weather conditions, accidents or other issues, an Eaton generalduty double-throw safety switch is a critical component in your standby generator applications

Heavy-duty

Eaton's heavy-duty doublethrow safety switches are designed for commercial and industrial applications. Fusible switches are available through 600A, while non-fusible switches are manufactured up to 800A. The wiring configuration from the factory allows a single load to be supplied by a normal or alternate source; however, where necessary, the wiring can be field modified to allow two loads to be alternately supplied by a single power source.

Heavy-duty double-throw safety switches are designed to accommodate a wide range of accessories that can be factory or field installed. Customized solutions, including key interlocks, viewing windows and receptacles, are also available through Eaton's Switching Device Flex Center.





Double-throw general-duty non-fusible safety switches

Double-throw, 240 Vac general-duty, non-fusible compact design

Specifications

- 30-100A
- Suitable for service entrance use with neutral kit installed
- Suitable for use as a manually operated switch per 2005 NEC® Article 702
- UL® listed File No. E5239

Features

- Palm-fitting, visible red handle
- Tri-lingual nameplate
- NEMA® 3R enclosure with side opening door
- Visible, embossed ON-OFF indication
- Concentric knockouts on bottom endwall and sides
- Lockable door hasp
- Lockable handle
- Three-point mounting
- Factory-installed neutral (optional catalog numbers are available without a neutral)
- Terminals suitable for 60° or 75°C Al or Cu wire
- · Rounded shroud
- Mechanical door interlock to prevent easy access when the switch is in the ON position
- Suitable for use on a circuit capable of delivering not more than 10,000 rms symmetrical amperes
- Compact size

Double-throw, 240 Vac general-duty, non-fusible, quick-make, quick-break design

Specifications

- 30–400A
- Horsepower rated
- Suitable for service entrance use with neutral kit installed
- Suitable for use as a manually operated switch per 2005 NEC Article 702
- UL listed File No. E5239
- Quick-make, quick-break operating mechanism

Features

- Palm-fitting, visible red handle
- Tri-lingual nameplate
- NEMA 3R enclosure with side opening door
- Visible, embossed red ON-OFF indication
- Tangential knockouts (30–100A) on bottom endwall; concentric knockouts on higher ratings, and sides and rear of 30–100A
- Lockable door hasp
- Lockable handle
- Factory-installed neutral (optional catalog numbers are available without a neutral)
- Three-point mounting (30–100A)
- Four-point mounting (200–400A)
- Terminals suitable for 60° or 75°C Al or Cu wire on 30–100A; 75°C Al or Cu wire on higher ratings
- Rounded shroud

DT223URH-N

Compact Design, 100A, 240V



DT224URK-NPS
Quick-Make, Quick-Break Design, 200A. 240V.

Double-Throw Compact Design

· Door cannot be opened with

(without operating interlock

• Suitable for use on a circuit

capable of delivering not

symmetrical amperes when

(30-200A); R, T or J fuses

(400A). Short-circuit rating

is 10,000 rms symmetrical

amperes when protected

by any other overcurrent

· Double-break visible rotary

blades; quick-make, quick-

protective device

break operation

protected by Class R or J fuses

more than 100,000 rms

defeater)

the switch ON. Switch cannot

be turned ON with door open

Ampere Rating Main and Standby	Enclosure Rainproof Catalog Number	 r	
Non-Fusible Two-Pole—240 Vac		<u> </u>	
30 60 100	DT221URH DT222URH DT223URH	ON OFF	Non-Fusible Two-Pole Two Sources or Two Loads

NEMA 3R

Non-Fusible Two-Pole, Three-Wire—240 Vac—Solid Neutral 30 DT221URH-N DT222URH-N DT223URH-N DT223URH-N SNO OFF Non-Fusible Two-Pole with Neutral Two-Sources or Two-Vole with Neutral Two-Sources or

Double-Throw Quick-Make, Quick-Break Design

Ampere	Maximum Horsepow	ı ver Ratings	NEMA 3R Enclosure		
Rating Main and	Single-Ph	ase	Rainproof		
Standby	240 Vac	250 Vdc	Catalog Number		
Non-Fusible	Two-Pole-	-240 Vac2	50 Vdc		
30 60 100 200 400	3 10 20 15	5 10 20 40 50	DT221URKPS DT222URKPS DT223URKPS DT224URKPS DT225URKPS	ON OFF	Non-Fusible Two-Pole Two Sources or Two Loads
Non-Fusible	Two-Pole,	Three-Wire-	–240 Vac—250 Vdc–	-Solid Ne	utral
30 60 100 200 400	3 10 20 15	5 10 20 40 50	DT221URK-NPS DT222URK-NPS DT223URK-NPS DT224URK-NPS DT225URK-NPS	ON CON	Non-Fusible Two-Pole with Neutral Two Sources or Two Loads

EATON CORPORATION Double-throw safety switch

Double-throw heavy-duty fusible safety switches



DT363FGK

Double-throw Heavy-Duty Fusible Safety Switch, 100A, 600V

Double-throw 240 and 600 Vac heavy-duty, fusible

Specifications

- 30-600A
- Horsepower rated
- Suitable for service entrance use with neutral or ground lug kit installed
- Suitable for use as a manually operated switch per 2005 NEC Article 702
- UL listed File No E5239

- Features
- Palm-fitting, visible red handle
- Tri-lingual nameplate
- Side opening doors on all enclosures
- Clear line shield to prevent accidental contact with energized parts; probe holes enable line side testing without removing the shield
- Wiring configuration from factory allows a single load to be supplied by a normal or alternate source; can be modified to allow two loads to be alternately supplied by a single power source
- Visible, embossed red ON-OFF indication

- Tangential knockouts (30–100A) on top and bottom endwall (bottom only on NEMA 3R); concentric knockouts on higher ratings, and sides and rear of 30–100A
- Lockable door hasp
- Lockable handle
- Three-point mounting (30–100A)
- Four-point mounting (200–600A)
- Terminals suitable for 60° or 75°C Al or Cu wire on 30–100A; 75°C Al or Cu wire on higher ratings
- · Rounded shroud
- Full range of accessories

- Door cannot be opened with the switch ON. Switch cannot be turned ON with door open (without operating interlock defeater)
- Suitable for use on a circuit capable of delivering not more than 100,000 rms symmetrical amperes when protected by Class R or J fuses (30–200A); R, T or J fuses (400–600A). Short-circuit rating is 10,000 rms symmetrical amperes when protected by any other overcurrent protective device
- Double-break visible rotary blades; quick-make, quickbreak operation

Double-Throw 240 Vac Heavy-Duty, Fusible

Ampere Rating Main		Maximum Horwith Time-Del		ngs	NEMA 1 Enclosure Indoor	NEMA 3R Enclosure Rainproof	_	
and Standby	Fuse Class Provision	Single-Phase 240 Vac	Three-Phase 240 Vac	250 Vdc	Catalog Number	Catalog Number	_	
Two-Pole	240 Vac250 \	Vdc						
200	Н	15	_	40	DT224FGK	DT224FRK	Fusible of Two Sources	Two Loads
Three-Po	le—240 Vac—250) Vdc						
30 60 100 200 400 600 ①	H H H H T	3 10 15 15 —	7-1/2 15 30 60 125 50	5 10 20 40 50	DT321FGK DT322FGK DT323FGK DT324FGK DT325FGK DT326FGK	DT321FRK DT322FRK DT323FRK DT324FRK DT325FRK DT326FRK	Fusible Three-Pole Two Sources	Two Loads

• Only available for use with fast-acting fuses. Standard hp rating is shown

Double-Throw 600 Vac Heavy-Duty, Fusible

Ampere			um Hors ime-Dela		Ratings		NEMA 1 — Enclosure	NEMA 3R Enclosure	NEMA 4X Enclosure Corrosion-Resistant		
Rating Main		Single	-Phase	Three	-Phase		Indoor	Rainproof	Stainless Steel	_	
and Standby	Fuse Class Provision	480 Vac	600 Vac	480 Vac	600 Vac	250 Vdc	Catalog Number	Catalog Number	Catalog Number		
Three-Pol	e—600 Vac—2	50 Vdc			'			'			
30 60 100 200 400	H H H T	7-1/2 20 30 50	10 25 40 50	15 30 60 125 250	20 50 75 150 350	— — 40 50	DT361FGK DT362FGK DT363FGK DT364FGK DT365FGK	— DT363FRK DT364FRK DT365FRK	DT363FWK	usible hree-Pole wo Sources Two Loads	

Double-throw 240 and 600 Vac heavy-duty.

Specifications

non-fusible

- 30–800A
- Horsepower rated
- Suitable for service entrance use with neutral or ground lug kit installed
- Suitable for use as a manually operated switch per 2005 NEC Article 702
- UL listed File No. E5239

Features

Double-throw heavy-duty

non-fusible safety switches

- Palm-fitting, visible red handle
- Tri-lingual nameplate
- Side opening doors on all enclosures
- Visible, embossed red ON-OFF indication
- Tangential knockouts (30–100A) on top and bottom endwall (bottom only on NEMA 3R); concentric knockouts on higher ratings, and sides and rear of 30–100A
- Lockable door hasp
- Lockable handle

- Three-point mounting (30–100A)
- Four-point mounting (200–800A)
- Terminals suitable for 60° or 75°C Al or Cu wire on 30–100A; 75°C Al or Cu wire on higher ratings
- Rounded shroud
- Full range of accessories
- Door cannot be opened with the switch ON; switch cannot be turned ON with door open (without operating interlock defeater)

Fusible Safety Switch, 100A, 600V

Double-throw Heavy-Duty Non-

DT363URK

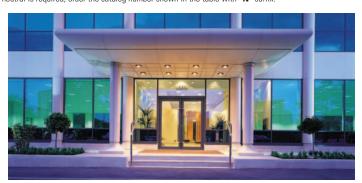
- Suitable for use on a circuit capable of delivering not more than 100,000 rms symmetrical amperes when protected by Class R or J fuses (30–200A); R, T or J fuses (400–800A). Short-circuit rating is 10,000 rms symmetrical amperes when protected by any other overcurrent protective device
- Double-break visible rotary blades; quick-make, quickbreak operation

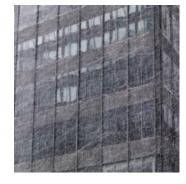
Double-Throw 240 Vac Heavy-Duty, Non-Fusible

	Maximun Ratings	n Horsepow	er			
A	Single- Phase	Three-Pha	se	NEMA 1 Enclosure Indoor	NEMA 3R Enclosure Rainproof	
Ampere Rating Main and Standby	240 Vac	240 Vac	250 Vdc	Catalog Number	Catalog Number	
Non-Fusible T	wo-Pole—2	240 Vac—25	0 Vdc			
30 60 100 200 400 600	3 10 20 15 —		5 10 20 40 50	DT221UGK DT222UGK DT223UGK DT224UGK DT225UGK DT226UGK	 DT224URK DT225URK 	ON Non-Fusible OFF 2-Pole Non Two Sources or Two Loads
Non Fusible T	hree-Pole-	–240 Vac—2	50 Vdc			
30 60 100 200 400 600 800	3 10 20 15 — —	10 20 40 60 125 125 125 125	5 10 20 40 50 50 50	DT321UGK DT322UGK DT323UGK DT324UGK DT325UGK DT325UGK DT327UGK DT327UGK DT327UGK-N	DT323URK DT324URK DT325URK	Non-Fusible ON Non-Fusible ON Non-Fusible ON Two Sources or Two Loads S/N ON Two Sources or Two Loads

- Warning: Switch is not approved for service entrance.
- 2 Field-installable neutral kit is not available. If a neutral is required, order the catalog number shown in the table with "N" suffix.







EATON CORPORATION Double-throw safety switch

Double-throw heavy-duty non-fusible safety switches



Double-Throw 600 Vac Heavy-Duty, Non-Fusible

	Maximum Horsepower Ra		NEMA 1 NEMA 3R E Enclosure II Indoor Rainproof D Catalog Catalog C				NEMA 12			
Ampere Rating					Enclosure Industrial, Dust-Tight	NEMA 4X Enclosure, Corrosion-Resistant, Stainless Steel				
Main and Standby							Catalog Number	Catalog Number		
Two-Pole—	-600 Vac	-250 Vdc								' '
30 60 100 200 400 600	7-1/2 20 40 50 —	10 25 50 50 —			5 10 20 40 50	DT261UGK DT262UGK DT263UGK DT264UGK DT265UGK DT265UGK DT266UGK	— — DT264URK ① DT265URK DT266URK			ON Non-Fusible Two-Pole Two Sources or Two Loads
Three-Pole-	-600 Vac-	—250 Vdc								
30 60 100 200 400 600 800	7-1/2 20 40 50 — —	10 25 50 50 — —	20 50 75 125 250 250 250 250	30 60 100 150 350 350 350 350	5 10 20 40 50 50 50 50	DT361UGK DT362UGK DT363UGK DT364UGK DT365UGK DT365UGK DT366UGK DT367UGK ② ③	DT361URK DT362URK DT363URK DT364URK DT365URK DT365URK DT366URK DT367URK ② ③	DT361UDK @ DT362UDK @ DT363UDK @ DT364UDK @ DT365UDK @ — @ — @	DT361UWK DT362UWK DT363UWK DT364UWK DT365UWK	Non-Fusible Three-Pole Two Sources or
Four-Pole-	-600 Vac-	–250 Vdc €	•							
30 60 100 200 400 600 800	7-1/2 20 40 — —	10 25 50 50 —	20 50 75 125 250 250 250	30 60 100 150 350 350 350	5 10 20 40 50 50	— — DT464UGK DT465UGK DT466UGK DT467UGK	DT461URK DT462URK DT463URK DT464URK DT465URK DT466URK DT466URK			ON Non-Fusible OFF Four-Pole Two Sources or Two Loads
Six-Pole—	-600 Vac	-250 Vdc @								
30 60 100	7-1/2 20 40	10 25 50	15 50 75	30 60 100	5 10 20	=	DT661URK DT662URK DT663URK	=		ON Non-Fusible Six-Pole Two Sources or Two Loads

- Rated 600 Vdc, 50 hp in addition to ratings shown in table.
- Warning: Switch is not approved for service entrance.
- 3 Field-installable neutral kit is not available. If a neutral is required, order the catalog number shown in the table with "N" suffix.
- NEMA 12 enclosures (30–800A) can be field modified to meet NEMA 3R rainproof requirements when a factory-provided drain hole is opened.





Double-throw heavy-duty switching neutral safety switches

Double-throw safety switches applied in emergency power or generator applications may require a switched neutral in lieu of a solid neutral. If the neutral of the generator is bonded to a grounding system at the generator, then a separately derived system (reference NEC 250-20[D] and Exhibit 250.7) has been created and a switched neutral in the double-throw safety switch is required. The switching neutral is required to avoid the potential for backfeeding of the power that might occur if the safety switch neutral is also bonded. If the generator neutral is brought to the service where it is bonded and grounded, then a non-separately derived system has been created and a solid neutral must be used in the double-throw safety switch. Most double-throw safety switches in today's market are provided with solid neutrals and are not UL listed for switching neutral application. The market, some utilities and local codes are requiring the ability to break or switch the neutral on threeand four-pole double-throw switches with a UL listing for that capability. Three-pole switches are used for single-phase switching neutral applications, while four-pole switches are used for three-phase switching neutral applications. In many cases, threeand four-pole double-throw safety switches are being installed in the field with the left-most pole being used as the switching neutral, but the switch is not UL listed for that application.

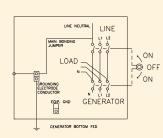
Eaton non-fusible three-pole and four-pole double-throw safety switches 30-800A are UL listed for switching neutral application with the proper installation of the applicable switching neutral bonding kit shown in the Accessories section of this brochure. Each bonding kit comes with applicable materials, hardware, instruction sheet and adhesive-backed wiring schematic. The bonding kits can only be used on non-fusible double-throw safety switches. When a bonding kit is applied to a three-pole switch, the switch becomes a single-phase switch with singlephase horsepower ratings.

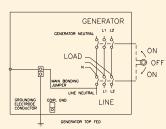
A double-throw safety switch with the appropriate bonding kit installed is suitable for service entrance use. Typically, a four-pole double-throw safety switch is not suitable for service entrance use; however, with the appropriate bonding kit installed, the four-pole switch is suitable for service entrance use as noted on the device publication of the product.

Switching neutral bonding kits can also be factory installed by Eaton's unique Switching Device Flex Center. See the end of this brochure for additional information on the Flex Center.

Bonding kit schematic

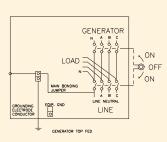
Single-phase applications requiring a neutral pole bonding kit

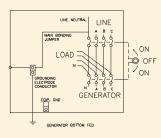




Bonding kit schematic

Three-phase applications requiring a neutral pole bonding kit





Notes: NEC 702 application, separately derived system and service equipment.

Two sources with switched neutral, generator is a separately derived system.

Proper installation is governed by interpretation of the NEC, applicable local codes and local utility requirements. Applicable sections of these codes and requirements should be referenced prior to installation.





Double-Throw Switching Neutral Safety Switch

(upper switch base assembly is shown)

Accessories, hubs and standard lug capacities

Accessories

Neutral, ground lug, control pole and auxiliary contact kits contain materials for one switch base. Copper lug, 60A J fuse and R fuse kits contain materials for one three-pole switch base. Switching neutral bonding and 400A J fuse kit contents are for one complete double-throw switch. Applicable accessories for a specific safety switch can also be found on the inside door publication of the switch

Description	Catalog Number
Neutral Kits/Ground Kits •	
30–100A 200A 400A Non-Fusible 600A Non-Fusible 400–600A Fusible	DT100NK DT200NK DT400NK DT600NK DS800NK
Ground Lug Kits ①	
30–100A ② 200A 400–800A	DS100GK DS200GK DS468GK
Switching Neutral Bonding Kits	
30–100A, Three-Pole, Four-Pole Non-Fusible 200A, Three-Pole, Four-Pole Non-Fusible 400A, Three-Pole, Four-Pole Non-Fusible 600A, Three-Pole, Four-Pole Non-Fusible 800A, Three-Pole, Four-Pole Non-Fusible	DT100BK DT200BK DT400BK DT600BK DT800BK
Control Pole Kit •	
30-800A	DS16CP
Auxiliary Contact Kits ①	
1NO/1NC 2NO/2NC	D\$200EK1 D\$200EK2
Copper Lug Kits ①	
30–60A 100A	DS16CL DS36CL
J Fuse Adapter Kits 🗿	
60A 400A 600V	DS26JK DT400JK
R Fuse Adapter Kits 🕢	
30A, 240V 30A, 600V; 60A, 240V 60A, 600V 100A, 240–600V 200A, 240–600V 400A, 240V	DS12FK DS16FK DS26FK DS36FK DS46FK DS56FK
Lubricating Grease for Safety Switch Blades and Contacts Each kit contains three 30 cc tubes of lubricating grease.	DSLUBEKIT

- For heavy-duty and general-duty quick-make, quick-break.
- 2 Ground bar kit is not listed on device publications.
- 3 For heavy-duty non-fusible.
- For heavy-duty fusible.

Hubs

Catalog Number **DS900AP** Adapter Kit permits installation of Group 1 hubs on 200A double-throw switches.

Plate Type Hubs For NEMA 3R Enclosures (Up to 200A)

Group 1 General-Duty, Hea Double-Throw thr	avy-Duty, ough 100A	Group 2 General-Duty, Heavy-Duty, Double-Throw through 200A			
Conduit Size in Inches (mm)	Catalog Number	Conduit Size in Inches (mm)	Catalog Number		
0.75 (19.1)	DS075H1	2.00 (50.8)	DS200H2		
1.00 (25.4)	DS100H1	2.50 (63.5)	DS250H2		
1.25 (31.8)	DS125H1	3.00 (76.2)	DS300H2		
1.50 (38.1)	DS150H1		_		
2.00 (50.8)	DS200H1				

Myers Type Hubs NEMA 3R (400A and Above) NEMA 4X (Stainless Steel) and 12

NEIVIA 4A (Stainless	Steel) and 12
Conduit Size in Inches (mm)	Catalog Number
0.50 (12.7) 0.75 (19.1) 1.00 (25.4) 1.25 (31.8) 1.50 (38.1) 2.00 (50.8) 2.50 (63.5)	DS050MH DS075MH DS100MH DS125MH DS150MH DS200MH DS200MH
3.00 (76.2) 3.50 (88.9) 4.00 (101.6) 5.00 (127.0)	D\$300MH D\$350MH D\$400MH D\$500MH

Standard lug capacities

Although certain lug capacities are larger than required, only minimum wire bending space is provided per the requirements noted in NEC Tables 373-6 (a) and (b) for respective ampere ratings.

Description	Wire Size	Wire Size	Туре
30A	#14	#2	Cu/Al
60A 100A	#14 #14	#2 #1/0	Cu/Al Cu/Al
200A	#14 #6	#1/0 250 kcmil	Cu/Al
400A	(2) #1/0	(2) 300 kcmil	Cu/Al
	(1) #1/0	(1) 750 kcmil	Cu/Al
600A Fusible	(1) #2	(1) 600 kcmil	Cu/Al
COOA Non Fueible	(1) #1/0	(1) 750 kcmil	Cu/Al
600A Non-Fusible 800A	(2) #250 (3) #250	(2) 500 kcmil (3) 500 kcmil	Cu/Al Cu/Al
Copper-Bodied Lugs			
30A	#14	#6	Cu
60A	#14	#4	Cu
100A	#6	#1/0	Cu
200A 400A	#6 #1/0	250 kcmil 500 kcmil	Cu Cu
600A	(2) #1/0	(2) 500 kcmil	Cu
000, .	(-/ " ./ 5	(=) 000 Komm	0.0

- 1. DT200NK
- 200A Neutral/Ground Kit
- 2. DS250H2 Plate Type Hub
- 3. DS26FK 60A 600V R Fuse Adapter Kit
- 4. DT100BK 100A Switching Neutral Bonding Kit
- 5. **DS468GK** 400–800A Ground Lug Kit
- 6. DS050MH Myers Hub

- 7. DS200EK1

 Auxiliary Contact Kit

 1NO/1NC
- 8. DS16CP Control Pole Kit
- 9. DS26JK 60A J Fuse Adapter Kit



10. DS16CL

30-60A Copper Lug Kit









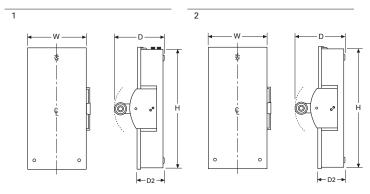






B EATON CORPORATION Double-throw safety switch

Dimensions and weights



- 1. General-Duty NEMA 3R 30–400A
- 2. Heavy-Duty NEMA 1, 3R 30–800A
- **3. Heavy-Duty NEMA 12, 4X** 30–400A

Note

Contact your Eaton sales office for outline drawings and mounting dimensions.

Double-Throw General-Duty, Non-Fusible, 240V, Two-Pole Solid Neutral, Quick-Make, Quick-Break Design

	NEMA 3R Dimensions	- W-:			
Ampere Rating	Height (H)	Width (W)	Depth (D)	Depth (D2)	Weight Lbs (kg)
30	24.63 (625.6)	11.94 (303.3)	9.88 (251.0)	5.38 (136.7)	34 (15.4)
60	24.63 (625.6)	11.94 (303.3)	9.88 (251.0)	5.38 (136.7)	34 (15.4)
100	24.63 (625.6)	11.94 (303.3)	9.88 (251.0)	5.38 (136.7)	34 (15.4)
200	37.38 (949.5)	19.56 (496.8)	11.25 (285.8)	6.10 (154.9)	80 (36.3)
400	53.81 (1366.8)	23.13 (587.5)	12.50 (317.5)	8.88 (225.6)	140 (63.6)

Double-Throw General-Duty, Non-Fusible, 240V, Two-Pole Solid Neutral, Compact Design

A	NEMA 3R Dimensions	in Inches (m	m)		. W-:k4
Ampere Rating	Height (H)	Width (W)	Depth (D)	Depth (D2)	Weight Lbs (kg)
30	14.69 (373.1)	9.63 (244.6)	10.81 (274.6)	5.23 (132.8)	12 (5.4)
60	14.69 (373.1)	9.63 (244.6)	10.81 (274.6)	5.23 (132.8)	12 (5.4)
100	14.69 (373.1)	9.63 (244.6)	10.81 (274.6)	5.23 (132.8)	12 (5.4)

Double-Throw Heavy-Duty, Non-Fusible, 240V and 600V, Three-Pole

NEMA 1, 3R Dimensions in Inches (mm)					NEMA 12, 4X Stainless Steel Dimensions in Inches (mm)				
Width	Height	Depth	Depth	Weight	Width	Height	Depth	Depth	Weight
(W)	(H)	(D)	(D2)	Lbs (kg)	(W)	(H)	(D)	(D2)	Lbs (kg)
11.94	24.63	9.88	5.38	34	12.00	25.88	10.25	5.50	60
(303.3)	(625.6)	(251.0)	(136.7)	(15.4)	(304.8)	(657.4)	(260.4)	(139.7)	(27.2)
11.94	24.63	9.88	5.38	34	12.00	25.88	10.25	5.50	60
(303.3)	(625.6)	(251.0)	(136.7)	(15.4)	(304.8)	(657.4)	(260.4)	(139.7)	(27.2)
11.94	24.63	9.88	5.38	34	12.00	25.88	10.25	5.50	60
(303.3)	(625.6)	(251.0)	(136.7)	(15.4)	(304.8)	(657.4)	(260.4)	(139.7)	(27.2)
19.56	37.38	11.25	6.10	80	19.50	41.00	11.63	6.48	105
(496.8)	(949.5)	(285.8)	(154.9)	(36.3)	(495.3)	(1041.4)	(295.4)	(164.6)	(47.6)
23.13	53.81	12.50	7.25	140	23.00	57.50	12.50	7.25	185
(587.5)	(1366.8)	(317.5)	(184.2)	(63.6)	(584.2)	(1460.5)	(317.5)	(184.2)	(83.9)
24.13 (612.9)	63.31 (1608.1)	14.13 (358.9)	8.88 (225.6)	175 (79.4)	_	_	_	_	_
24.13 (612.9)	63.31 (1608.1)	14.13 (358.9)	8.88 (225.6)	175 (79.4)	_	_	_	_	_
	Width (W) 11.94 (303.3) 11.94 (303.3) 11.956 (496.8) 23.13 (587.5) 24.13 (612.9) 24.13	Width (W) Height (H) 11.94 24.63 (303.3) (625.6) 11.94 24.63 (303.3) (625.6) 11.94 24.63 (303.3) (625.6) 11.95 24.63 (303.3) (625.6) 19.56 37.38 (496.8) (949.5) 23.13 (587.5) (1366.8) (1366.8) 24.13 (612.9) (1608.1) 63.31 (612.9) 24.13 (63.31 (63.31) 63.31 (63.31)	Width (W) Height (D) Depth (D) 11.94 24.63 9.88 (303.3) (625.6) (251.0) 11.94 24.63 9.88 (303.3) (625.6) (251.0) 11.94 24.63 9.88 (303.3) (625.6) (251.0) 11.94 24.63 (251.0) (251.0) 19.56 37.38 11.25 (496.8) (949.5) (285.8) 23.13 53.81 12.50 (587.5) (1366.8) (317.5) 24.13 63.31 14.13 (612.9) (1608.1) (358.9) 24.13 63.31 14.13 64.13 63.31 14.13	Width (W) Height (H) Depth (D2) Depth (D2) 11.94 24.63 9.88 5.38 (303.3) (625.6) (251.0) (136.7) 11.94 24.63 9.88 5.38 (303.3) (625.6) (251.0) (136.7) 11.94 24.63 9.88 5.38 (303.3) (625.6) (251.0) (136.7) 19.56 37.38 11.25 6.10 (496.8) (949.5) (285.8) (154.9) 23.13 53.81 12.50 7.25 (587.5) (1366.8) (317.5) (184.2) 24.13 63.31 14.13 8.88 (612.9) (1608.1) (358.9) (225.6) 24.13 63.31 14.13 8.88	Width (W) Height (D) Depth (D2) Weight Lbs (kg) 11.94 24.63 9.88 5.38 34 (303.3) (625.6) (251.0) (136.7) (15.4) 11.94 24.63 9.88 5.38 34 (303.3) (625.6) (251.0) (136.7) (15.4) 11.94 24.63 9.88 5.38 34 (303.3) (625.6) (251.0) (136.7) (15.4) 19.56 37.38 11.25 6.10 80 (496.8) (949.5) (285.8) (154.9) (36.3) 23.13 53.81 12.50 7.25 140 (587.5) (1366.8) (317.5) (184.2) (63.6) 24.13 63.31 14.13 8.88 175 (612.9) (1608.1) (358.9) (225.6) (79.4) 24.13 63.31 14.13 8.88 175	Width (W) Height (H) Depth (D2) Depth (D2) Weight (W) Width (W) 11.94 24.63 9.88 5.38 34 12.00 (303.3) (625.6) (251.0) (136.7) (15.4) (304.8) 11.94 24.63 9.88 5.38 34 12.00 (303.3) (625.6) (251.0) (136.7) (15.4) (304.8) 11.94 24.63 9.88 5.38 34 12.00 (303.3) (625.6) (251.0) (136.7) (15.4) (304.8) 19.56 37.38 11.25 6.10 80 19.50 (496.8) (949.5) (285.8) (154.9) (36.3) (495.3) 23.13 53.81 12.50 7.25 140 23.00 (587.5) (1366.8) (317.5) (184.2) (63.6) (584.2) 24.13 63.31 14.13 8.88 175 — 24.13 63.31 14.13 8.88	Width (W) Height (D) Depth (D2) Weight Lbs (kg) Width (W) Height (H) 11.94 24.63 9.88 5.38 34 12.00 25.88 (303.3) (625.6) (251.0) (136.7) (15.4) (304.8) (657.4) 11.94 24.63 9.88 5.38 34 12.00 25.88 (303.3) (625.6) (251.0) (136.7) (15.4) (304.8) (657.4) 11.94 24.63 9.88 5.38 34 12.00 25.88 (303.3) (625.6) (251.0) (136.7) (15.4) (304.8) (657.4) 11.94 24.63 9.88 5.38 34 12.00 25.88 (303.3) (625.6) (251.0) (136.7) (15.4) (304.8) (657.4) 19.56 37.38 11.25 6.10 80 19.50 41.00 (496.8) (949.5) (285.8) (154.9) (36.3) (495.3) (1041.4)	Width (W) Height (H) Depth (D) Depth (D2) Weight (W) Width (H) Height (D) Depth (D2) 11.94 24.63 9.88 5.38 34 12.00 25.88 10.25 (303.3) (625.6) (251.0) (136.7) (15.4) (304.8) (657.4) (260.4) 11.94 24.63 9.88 5.38 34 12.00 25.88 10.25 (303.3) (625.6) (251.0) (136.7) (15.4) (304.8) (657.4) (260.4) 11.94 24.63 9.88 5.38 34 12.00 25.88 10.25 (303.3) (625.6) (251.0) (136.7) (15.4) (304.8) (657.4) (260.4) 19.56 37.38 11.25 6.10 80 19.50 41.00 11.63 (496.8) (949.5) (285.8) (154.9) (36.3) (495.3) (1041.4) (295.4) 23.13 53.81 12.50 7.25 140 23.00	Width (W) Height (D) Depth (D2) Weight (D3) Width (W) Height (H) Depth (D2) Depth (D2) 11.94 24.63 9.88 5.38 34 12.00 25.88 10.25 5.50 (303.3) (625.6) (251.0) (136.7) (15.4) (304.8) (657.4) (260.4) (139.7) 11.94 24.63 9.88 5.38 34 12.00 25.88 10.25 5.50 (303.3) (625.6) (251.0) (136.7) (15.4) (304.8) (657.4) (260.4) (139.7) 11.94 24.63 9.88 5.38 34 12.00 25.88 10.25 5.50 (303.3) (625.6) (251.0) (136.7) (15.4) (304.8) (657.4) (260.4) (139.7) 19.56 37.38 11.25 6.10 80 19.50 41.00 11.63 6.48 (496.8) (949.5) (285.8) (154.9) (36.3) (495.3) (1041.4)



Double-Throw Heavy-Duty, Fusible, 240V and 600V, Three-Pole

	NEMA 1, 3R Dimensions in Inches (mm)					NEMA 12, 4X Stainless Steel Dimensions in Inches (mm)				
Ampere	Width	Height	Depth	Depth	Weight	Width	Height	Depth	Depth	Weight
Rating	(W)	(H)	(D)	(D2)	Lbs (kg)	(W)	(H)	(D)	(D2)	Lbs (kg)
30	11.94	36.63	9.88	5.38	44	12.00	39.81	10.25	5.50	45
	(303.3)	(930.4)	(251.0)	(136.7)	(20.0)	(304.8)	(1011.2)	(260.4)	(139.7)	(20.4)
60	11.94	36.63	9.88	5.38	44	12.00	39.81	10.25	5.50	45
	(303.3)	(930.4)	(251.0)	(136.7)	(20.0)	(304.8)	(1011.2)	(260.4)	(139.7)	(20.4)
100	11.94	36.63	9.88	5.38	44	12.00	39.81	10.25	5.50	45
	(303.3)	(930.4)	(251.0)	(136.7)	(20.0)	(304.8)	(1011.2)	(260.4)	(139.7)	(20.4)
200	19.56	50.88	11.25	6.10	95	19.56	55.63	11.63	6.46	100
	(496.8)	(1292.4)	(285.8)	(154.9)	(43.1)	(496.8)	(1413.0)	(295.4)	(164.1)	(45.4)
400	25.38	74.75	14.13	8.88	230	25.38	74.75	14.13	8.92	260
	(644.7)	(1898.7)	(358.9)	(225.6)	(104.3)	(644.7)	(1898.7)	(358.9)	(226.6)	(117.9)
600	27.44 (697.0)	86.13 (2187.7)	14.13 (358.9)	8.88 (225.6)	320 (145.1)	_	_	_	_	_



Short-circuit ratings



Short-Circuit Ratings Using Class R, T or J Fusing Where Applicable

Class H fuse clips supplied as standard for 30–600A except Class T for 400A at 600V, and 600A at 240V. Rated at 10,000 rms symmetrical when using Class H fuses

Not applicable to the Compact Design. The Compact Design is suitable for use on a circuit capable of delivering not more than 10,000 rms symmetrical amperes.

Type 1	Type 3R	Type 12	Type 4X
100k at 600	100k at 600	100k at 600	100k at 600
100k at 600	100k at 600	100k at 600	100k at 600
100k at 600	100k at 600	100k at 600	100k at 600
100k at 600	100k at 600	100k at 600	100k at 600
100k at 600	100k at 600	100k at 600	100k at 600
100k at 600	100k at 600	100k at 600	100k at 600
100k at 600	100k at 600	_	_
	100k at 600 100k at 600 100k at 600 100k at 600 100k at 600	100k at 600 100k at 600 100k at 600 100k at 600	100k at 600 100k at 600 100k at 600 100k at 600 100k at 600 100k at 600 100k at 600 100k at 600 100k at 600 100k at 600 100k at 600 100k at 600 100k at 600 100k at 600 100k at 600

Non-fusible switches

The UL listed short-circuit ratings for Eaton non-fusible switches are based on the switches being properly protected by overcurrent protective devices. For applications that require a UL listed short-circuit rating of 10,000 rms symmetrical amperes or less, an Eaton nonfusible switch must be properly protected by any overcurrent protective device rated no greater than the ampere rating of the switch. For applications that require a UL listed short-circuit rating of greater than 10,000 rms symmetrical amperes, an Eaton non-fusible switch must be properly protected by the appropriate class and size fusing noted on the switch publication. Otherwise, this non-fusible switch must be replaced with an Eaton fusible switch that uses the appropriate fusing required.

Safety switch short circuit ratings are applicable to AC only.

Safety switch I²t and Ip values are identical to UL maximum acceptable I²t and Ip values for the corresponding class fuse.

Renewal parts

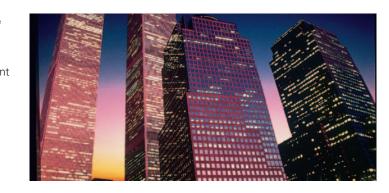
Replacement parts for a specific catalog number are shown on the inside door label (publication) of the switch. Switch bases, fuse bases, line shields (fusible switches) and operating handles (400A and above) are typically available as applicable. For additional information, refer to *Renewal Parts Catalog* RP00801001E.

Flex center

Our Cleveland, TN, Switching Devices Flex Center is a solutions center that designs and modifies safety switches, enclosed circuit breakers and rotary disconnects for unique customer needs that are not met by standard products. The Flex Center is a one-of-a-kind operation that is capable of solving our customers' issues, while our competition is content to offer their customers only catalog items.

The Flex Center staff has over 120 years of design, manufacturing and industry experience, and has been providing solutions to our customers since 1998. While you may think that your power switching needs are unlike any other, chances are, the Flex Center staff has already "been there, done that."

For further information on our customized solutions for harsh environments, safety and convenience, please refer to our Flex Center brochure SA00801002E or contact the Flex Center at 1-888-329-9272



EATON CORPORATION Double-throw safety switch

Eaton's Electrical Sector is a global leader in power distribution, power quality, control and automation, and monitoring products. When combined with Eaton's full-scale engineering services, these products provide customerdriven PowerChain™ solutions to serve the power system needs of the data center, industrial, institutional, public sector, utility, commercial, residential, IT, mission critical, alternative energy and OEM markets worldwide.

PowerChain solutions help enterprises achieve sustainable and competitive advantages through proactive management of the power system as a strategic, integrated asset throughout its life cycle, resulting in enhanced safety, greater reliability and energy efficiency. For more information, visit www.eaton.com/electrical.

Eaton Corporation Electrical Sector

Electrical Sector 1111 Superior Ave. Cleveland, OH 44114 United States 877-ETN-CARE (877-386-2273) Eaton.com

© 2010 Eaton Corporation All Rights Reserved Printed in USA Publication No. BR00801002E / Z10432 November 2010





PowerChain Management is a registered trademark of Eaton Corporation.

All other trademarks are property of their respective owners.