

# Mersen Non-Fusible Disconnects

## SC Series Selection Guides



Company Information

Systems Overview

Programmable Controllers

Field I/O

Software

C-more & other HMI

Drives

Soft Starters

Motors & Gearbox

Steppers/ Servos

Motor Controls

Proximity Sensors

Photo Sensors

Limit Switches

Encoders

Current Sensors

Pressure Sensors

Temperature Sensors

Pushbuttons/ Lights

Process

Relays/ Timers

Comm.

Terminal Blocks & Wiring

Power

Circuit Protection

Enclosures

Tools

Pneumatics

Appendix

Product Index

Part # Index

SC Series Front-operated Non-Fusible Disconnects					
Switch Body Part Number	Price	Weight lb(kg)	Ampere Rating	Hp @ Voltage	Interrupt Capacity (kA)*
SCV30	<-->	3.9(1.79)	30	15 Hp @ 480V	50
SCV60	<-->	4.0(1.80)	60	30 Hp @ 480V	200
SCV100	<-->	5.5(2.50)	100	60 Hp @ 480V	200
SCV200	<-->	7.6(3.40)	200	125 Hp @ 480V	200
SCV400	<-->	17.2(7.80)	400	250 Hp @ 480V	200
SC600	<-->	18.7(8.50)	600	400 Hp @ 480V	200
SC800	<-->	19.6(8.90)	800	500 Hp @ 480V	100

\* When fused separately

Mersen Non-Fusible Disconnects Component Selection Guide				
Part Number	Price	Weight lb(kg)	Description	Use with
SD200-5	<-->	0.2(0.09)	Operator shaft, type D, 7.9" (200 mm) length, 5x5 mm thick (purchase handle separately)	SCV30
SD320-5	<-->	0.3(0.14)	Operator shaft, type D, 12.6" (320 mm) length, 5x5 mm thick (purchase handle separately)	SCV30
SG120-5	<-->	0.15(0.07)	Operator shaft, type G, 4.7" (120 mm) length, 5x5 mm thick (purchase handle separately)	SCV30
SG200-10	<-->	0.3(0.14)	Operator shaft, type G, 7.9" (200 mm) length, 10x10 mm thick (purchase handle separately)	SCV60 thru SCV400
SG200-5	<-->	0.2(0.09)	Operator shaft, type G, 7.9" (200 mm) length, 5x5 mm thick (purchase handle separately)	SCV30
SG320-10	<-->	0.5(0.23)	Operator shaft, type G, 12.6" (320 mm) length, 10x10 mm thick (purchase handle separately)	SCV60 thru SCV400
SG320-5	<-->	0.2(0.09)	Operator shaft, type G, 12.6" (320 mm) length, 5x5 mm thick (purchase handle separately)	SCV30
SG400-10	<-->	0.7(0.32)	Operator shaft, type G, 15.7" (400 mm) length, 10x10 mm thick (purchase handle separately)	SCV60 thru SCV400
SH400-15	<-->	2.1(0.95)	Operator shaft, type H, 17.7" (450 mm) length, 15x15 mm thick (purchase handle separately)	SC600, SC800
HADB1	<-->	0.1(0.05)	Direct operation handle	SCV30
HADB6	<-->	0.4(0.18)	Direct operation, optional handle, 12.415" (315.314 mm) long padlocking on the switch, NFPA 79 compliant	SCV30
HADB8	<-->	0.4(0.18)	Direct operation, optional handle, 12.415" (315.314 mm) long padlocking on the switch, NFPA 79 compliant	SCV60 thru SCV400
HDPB	<-->	0.2(0.09)	Black Pistol handle, NEMA 12, 2.48" (63 mm) long, Type D, defeatable and lockable	SCV30
HDPR	<-->	0.2(0.09)	Red and yellow Pistol handle, NEMA 12, 2.48" (63 mm) long, Type D, defeatable and lockable	SCV30
HGPB	<-->	0.5(0.23)	Black Pistol handle, NEMA 12, 2.78" (70.6 mm) long, Type G, defeatable and lockable	SCV30
HGPB4	<-->	0.6(0.27)	Black Pistol handle, NEMA 4X, 2.78" (70.6 mm) long, Type G, defeatable and lockable	SCV30
HGPB4L	<-->	0.7(0.32)	Black long Pistol handle, NEMA 4X, 4.98" (126.49 mm) long, Type G long, defeatable and lockable	SCV60 thru SCV400
HGPBL	<-->	0.6(0.27)	Black long Pistol handle, NEMA 12, 4.98" (126.49 mm) long, Type G long, defeatable and lockable	SCV60 thru SCV400
HGPR	<-->	0.6(0.27)	Red and yellow Pistol handle, NEMA 12, 2.78" (70.6 mm) long, Type G, defeatable and lockable	SCV30
HGPR4	<-->	0.6(0.27)	Red and yellow Pistol handle, NEMA 4X, 2.78" (70.6 mm) long, Type G, defeatable and lockable	SCV30
HGPR4L	<-->	0.6(0.27)	Red and yellow long Pistol handle, NEMA 4X, 4.98" (126.49 mm) long, Type G long, defeatable and lockable	SCV60 thru SCV400
HGPRL	<-->	0.6(0.27)	Red and yellow long Pistol handle, NEMA 12, 4.98" (126.49 mm) long, Type G long, defeatable and lockable	SCV60 thru SCV400
HHPB4SC	<-->	1.3(0.59)	Black Pistol handle, NEMA 4X, 7.48" (190 mm) long, Type H, defeatable and lockable	SC600, SC800

Mersen Non-Fusible Disconnects Accessories Selection Guide				
Part Number	Price	Weight lb(kg)	Description	Use with
ACHCD	<-->	0.2(0.09)	Auxiliary contact holder (accommodates up to 4 auxiliary contacts)	SCV30
ACH	<-->	0.2(0.09)	Auxiliary contact holder (accommodates up to 8 auxiliary contacts)	SCV60 thru SCV400
ACHSC	<-->	0.1(0.05)	Auxiliary contact holder (accommodates up to 4 auxiliary contacts)	SC600, SC800
AC3	<-->	0.1(0.05)	Auxiliary contact for SC Series non-fused disconnect switches. <b>One N.O.</b> contact. 10 Amp, 600 VAC	All SC Series switches
AC4	<-->	0.1(0.05)	Auxiliary contact for SC Series non-fused disconnect switches. <b>One N.C.</b> contact. 10 Amp, 600 VAC	All SC Series switches
TL200	<-->	0.4(0.18)	Terminal lug kit, Aluminum, tin-plated, 3/0 to #6, 6 lugs per kit	SCV200
TL400	<-->	5.0(2.27)	Terminal lug kit, Aluminum, tin-plated, 600Mcm to #2, 6 lugs per kit	SCV400
TL600	<-->	5.0(2.27)	Terminal lug kit, Aluminum, tin-plated, (2) 600Mcm to #2, 6 lugs per kit	SC600
TL800	<-->	10.0(4.5)	Terminal lug kit, Aluminum, tin-plated, (3) 600Mcm to #2, 6 lugs per kit	SC800
TS200SC*	<-->	0.7(0.32)	Terminal shroud kit - 3 pole, Use with 200 amp non-fusible switch. For line or load side.	SCV200
TS1200SC*	<-->	0.7(0.32)	Terminal screen kit - 3 pole, Use with 800 amp non-fusible switch. For line or load side.	SC800

# Mersen Non-Fusible Disconnects

## SC Series - Build a Complete Switch

### 30 Amp

#### STEP 1

Choose a switch body



DIN-rail mountable

#### Switch body

Switch Body	Ampere Rating	Hp @ Voltage	Interrupt Capacity (kA)
SCV30*	30	15 Hp @ 480V	50

\*Note: Lugs, shrouds, and screens are integrated into this switch

#### STEP 2

Choose a handle



#### Short handles

Short Handle	
HDPB	Pistol, Black, NEMA 1, 3R, 12, Type D
HDPR	Pistol, Red/yellow, NEMA 1, 3R, 12, Type D



#### Standard handles

Standard Handle	
HGPB	Pistol, Black, NEMA 1, 3R, 12, Type G.
HGPB4	Pistol, Black, NEMA 4, 4X, Type G,
HGPR	Pistol, Red /yellow, NEMA 1, 3R, 12, Type G
HGPR4	Pistol, Red /yellow, NEMA 4, 4X, Type G

#### Direct handles

Direct Mount Handle	
HADB1	Direct mount, Black. No shaft required.

\*Note: Switch Handle will not switch to "test" position with Aux contacts and ACHCD holder installed. Handle will switch to "ON" position.

#### NFPA 79 compliant handle

NFPA 79 Compliant Handle	
HADB6	NFPA 79-compliant, allows operation and padlocking the switch when door is open. Red. No shaft required.

#### STEP 3

Choose a shaft



#### Short handle shafts

Shaft for Short Handle	
SD200-5	Type D, 7.9" (200 mm) long
SD320-5	Type D, 12.6" (320 mm) long



#### Standard handle shafts

Shaft for Standard Handle	
SG120-5	Type G, 4.7" (120 mm) long
SG200-5	Type G, 7.9" (200 mm) long
SG320-5	Type G, 12.6" (320 mm) long

Shaft not used with Direct Handle

Select a standard handle.

Note: Short handle cannot be used with NFPA79-compliant handle.

#### STEP 4

Choose your Accessories

Accessories	Description	Use With
ACHCD	Auxiliary contact holder (accommodates up to 4 auxiliary contacts). <b>REQUIRED</b> when using AC3 or AC4.	SCV30
AC3	Auxiliary contact. <b>One N.O.</b> contact. 10 Amp. 600 VAC <b>REQUIRES</b> ACHCD . Please purchase separately.	SCV30
AC4	Auxiliary contact. <b>One N.C.</b> contact. 10 Amp. 600 VAC <b>REQUIRES</b> ACHCD . Please purchase separately.	SCV30



ACHCD



AC3



AC4

# Mersen Non-Fusible Disconnects

## SC Series - Build a Complete Switch

### 60 Amp to 400 Amp

#### STEP 1

Choose a switch body



#### Switch body

Switch Body	Ampere Rating	Hp @ Voltage	Interrupt Capacity (kA)
SCV60*	60	30 Hp @ 480V	200
SCV100*	100	60 Hp @ 480V	200
SCV200**	200	125 Hp @ 480V	200
SCV400***	400	200 Hp @ 480V	200

\*Note: Lugs, shrouds, and screens are integrated into this switch.

\*\*Note: Line side screen included with this switch. Use TL200 lugs and TS200SC screen, sold separately, for load side.

\*\*\*Note: Screens and shrouds are integrated into this switch. Use TL400 lugs, sold separately.

#### STEP 2

Choose a handle



#### Standard handles

Standard Handle	
HGPBL	Pistol, Long Black, NEMA 1, 3R, 12; 4.98" long, Type G
HGPB4L	Pistol, Long Black, NEMA 4, 4X, 4.98" long, Type G
HGPRL	Pistol, Long Red/yellow NEMA 1, 3R, 12; 4.98" long, Type G
HGPR4L	Pistol, Long Red/yellow NEMA 4, 4X, 4.98" long, Type G



#### NFPA 79 compliant handle

NFPA 79 Compliant Handle	
HADB8	NFPA 79-compliant, allows operation and padlocking the switch when door is open. Red. No shaft required.

#### STEP 3

Choose a shaft



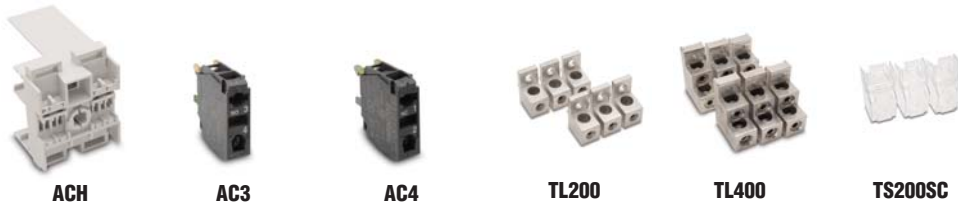
#### Standard handle shafts

Shaft for Standard Handle	
SG200-10	Type G, 7.9" (200 mm) long
SG320-10	Type G, 12.6" (320 mm) long
SG400-10	Type G, 15.7" (400 mm) long

Select a standard handle

#### STEP 4

Choose your Accessories



Accessories	Description	Use With
ACH	Auxiliary contact holder (accommodates up to 8 auxiliary contacts). <b>REQUIRED</b> when using AC3 or AC4.	SCV60 thru SCV400
AC3	Auxiliary contact. <b>One N.O.</b> contact. 10 Amp. 600 VAC. <b>REQUIRES</b> ACH . Please purchase separately.	
AC4	Auxiliary contact. <b>One N.C.</b> contact. 10 Amp. 600 VAC. <b>REQUIRES</b> ACH . Please purchase separately.	
TL200	Terminal lug kit, Aluminum, tin-plated, 3/0 to #6, 6 lugs per kit	SCV200
TL400	Terminal lug kit, Aluminum, tin-plated, 600Mcm to #2, 6 lugs per kit	SCV400
TS200SC	Terminal shroud kit, - 3 pole, Use with 200 amp non-fusible switch. For line or load side. 3 shrouds per kit.	SCV200

# MERSEN Non-Fusible Disconnects SC Series - Build a Complete Switch

600 Amp to 800 Amp

## STEP 1

Choose a switch body



### Switch Body

Switch Body	Ampere Rating	Hp @ Voltage	Interrupt Capacity (kA)
SC600*	600	400 Hp @ 480V	200
SC800**	800	500 Hp @ 480V	100

\*Note: Line side screen included with this switch. Use TL600 lugs, sold separately.

\*\*Note: Line side screen included with this switch. Use TL800 lugs and TS1200SC screen, sold separately, for load side.

## STEP 2

Choose a handle



### Long Handle

Long Handle	
HHPB4SC	Black, NEMA 4, 4X; 7.48" long, Type H.

## STEP 3

Choose a shaft



### Shaft for Long Handle

Shaft for Long Handle	
SH400-15	Type H, 17.7" (450 mm) long

## STEP 4

Choose your Accessories



ACHSC



AC3



AC4



TL600



TL800



TS1200SC

Accessories	Description	Use With
ACHSC	Auxiliary contact holder (accommodates up to 4 auxiliary contacts). <b>REQUIRED</b> when using AC3 or AC4.	SC600 thru SC800
AC3	Auxiliary contact. <b>One N.O.</b> contact. 10 Amp. 600 VAC. <b>REQUIRES</b> ACHSC. Please purchase separately.	SC600 thru SC800
AC4	Auxiliary contact. <b>One N.C.</b> contact. 10 Amp. 600 VAC. <b>REQUIRES</b> ACHSC. Please purchase separately.	SC600 thru SC800
TL600	Terminal lug kit, Aluminum, tin-plated, (2) 600Mcm to #2, 6 lugs per kit	SC600
TL800	Terminal lug kit, Aluminum, tin-plated, (3) 600Mcm to #2, 6 lugs per kit	SC800
TS1200SC	Terminal screen kit - 3 pole, Use with 800 amp non-fusible switch, For line or load side. 1 screen per kit.	SC800