

ATX™ SWE Series 40, 63 and 160 Amp Switches, Circuit Breakers, and “Break Glass” Call Points

Increased Safety

ATEX/IECEX:
Zone 1 and 2 - 21 and 22
⊕ II 2 GD
IP66 - IK10

Applications

- Designed to prevent operation in explosive atmospheres during connect and disconnect operation of power loads.
- For use in hazardous areas where ignitable vapors, gases or highly combustible dusts are present.
- For installation in chemical and petrochemical plants, refineries and other process industries.

Features

- Available up to 690 Volts, and up to 160 Amps
- 63 Amp version:
 - Padlockable handle in position “O” using maximum 4 padlocks [maximum handle diameter 8 mm (0.315 in) and minimum 15 mm (0.59 in) length].
 - 3 or 4-pole switch mechanism with one ‘NO’ early break auxiliary contact.
 - Main contact termination: 35 mm² (0.054 in²).
 - Auxiliary contact termination: 2.5 mm² (0.004 in²).
 - Supplied with:
 - Cable entries:
 - 1 x M32 clearance on top
 - 1 x M32 and 1 x M20 clearance on bottom
 - Supplied with:
 - 2 x M32 polyamide cable glands – cable 10 mm to 25 mm (0.39” to 0.98”)
 - 1 x M20 blanking plug
 - 1 x yellow self-adhesive laminated plastic label with black lettering – 65 mm to 18 mm (2.56” x 0.71”)
- 160 Amp version:
 - Hinged door.
 - Closed with plastic double bar locks (key supplied).
 - Supplied with 4 fixing lugs.
 - Padlockable handle in position “O”.
 - 3 or 4-pole switch mechanism with one ‘NO’ early break auxiliary contact.
 - Main contact termination: 120 mm² (0.1860 in²).
 - Auxiliary contact termination: 2.5 mm² (0.004 in²).
 - Supplied with:
 - Cable entries:
 - 1 x M63 clearance on top
 - 1 x M63 and 1 x M25 clearance on bottom
 - Supplied with:
 - 2 x M63 polyamide cable glands – cable 36 mm to 44 mm (1.42” to 1.73”)
 - 1 x M25 blanking plug

Standard Materials

- Box: polyester (GRP) or 316L stainless steel
- Captive screws: A2 stainless steel
- Cable glands: polyamide cable glands and blanking plugs
- Locknut: nickel plated brass.

ATEX/IECEX Certifications and Compliances

- Certification Type: CAe (Polyester box)
 - Gas: Zone 1 and 2
 - Conforming to ATEX 94/9/CE: ⊕ II 2 G
 - Type of Protection: Ex de IIC
 - Temperature Class: T5 at +40 °C (+104 °F), T4 at +55 °C (+131 °F)



40 A/63 Amp Version



160 Amp Version

- Dust: Zone 21 and 22
- Conforming to ATEX 94/9/CE: ⊕ II 2 D
- Type of Protection: Ex tD A21
- Surface Temperature: T95 °C (T 203 °F) at +40 °C (+104 °F), T130 °C (T266 °F) at +55 °C (+131 °F)
- Ambient Temperature: 20 °C to +55 °C (68 °F to +131 °F) [40 A and 63 A]; -30 °C to +55 °C (-22 °F to +131 °F) [160 A]
- CE Declaration of Conformity: 50235
- ATEX Certificate: LCIE 02 ATEX 6248X
- IECEx Certificate: IECEx LCI 04.0016X
- Certification Type: JBe (Stainless steel box)
 - Gas: Zone 1 and 2
 - Conforming to ATEX 94/9/CE: ⊕ II 2 G
 - Type of Protection: Ex de IIC
 - Temperature Class: T5 at +40 °C (+104 °F), T4 at +55 °C (+131 °F)
- Dust: Zone 21 and 22
- Conforming to ATEX 94/9/CE: ⊕ II 2 D
- Type of Protection: Ex tD A21
- Surface Temperature: T95 °C (T 203 °F) at +40 °C (+104 °F), T130 °C (T266 °F) at +55 °C (+131 °F)
- Ambient Temperature: 20 °C to +55 °C (68 °F to +131 °F) [40 A and 63 A]; -30 °C to +55 °C (-22 °F to +131 °F) [160 A]
- CE Declaration of Conformity: 50232
- ATEX Certificate: LCIE 02 ATEX 6118X
- IECEx Certificate: IECEx LCI 11.0008X
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10

EURASEC Certification

- Certification Type: CAe (Polyester box)
 - EURASEC RU C-FR. Г505.В.00911
- Certification Type: JBe (Stainless steel box)
 - EURASEC RU C-FR.Г505.В.00911

Other Certification ①

- Certification Type: CAe (Polyester box)
 - INMETRO Certificate: BVC 12.0421-X

CONTROL S: ATEX/IECEX INCREASED SAFETY CALL POINTS STATIONS AND AUDIO SIGNALING DEVICES



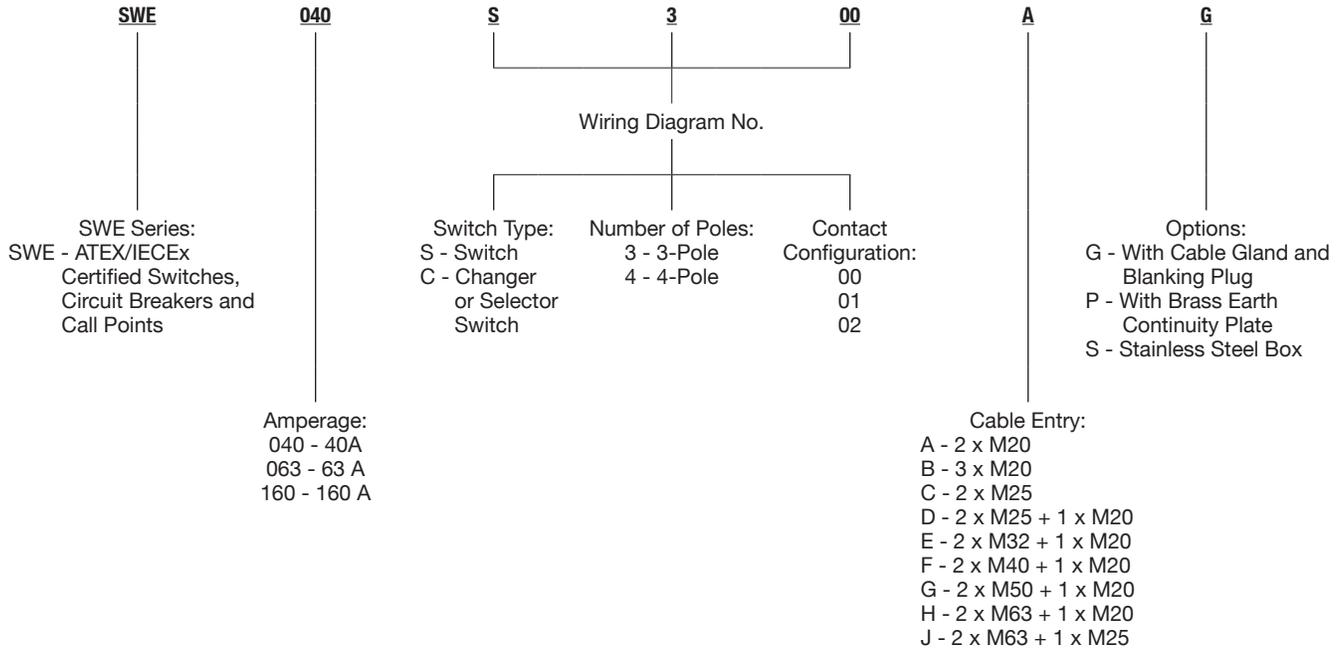
① INMETRO certification available on special request only. Contact your local sales representative for more information.

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Catalog Numbering Guide



Switch Type	Wiring Diagram No.	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number
63 A Switch – 2 x M32 + 1 x M20 – Polyester Box				
3-pole switch	S302	8 (17.64)	14.5 (884.8)	SWE063S302EG
4 Pole Switch	S402	8 (17.64)	14.5 (884.8)	SWE063S402EG
160 A Switch – 2 x M63 + 1 x M25 – Polyester Box				
3-pole switch	S302	16 (35.27)	75 (4576.8)	SWE160S302JG
4 Pole Switch	S402	16 (35.27)	75 (4576.8)	SWE160S402JG
160 A Switch – 2 x M63 + 1 x M25 – Stainless Steel Box				
4-pole switch	S402	25 (55.12)	75 (4576.8)	SWE160S402JS

Switching Arrangement — X Denotes “Closed Contact”

S302

Positions	Aux	Contacts		
		1	2	3
0				
1	X	X	X	X

S402

Positions	Aux	Contacts			
		1	2	3	4
0					
1	X	X	X	X	X

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Main Contacts	63 Amps	160 Amps
Rated Insulation Voltage	690 Vac	690 Vac
Rated Operating Voltage	690 Vac	690 Vac
Rated Operating Current	63 Amp	160 Amp
Rated Surge Voltage	6 kV	8 kV
Switching Capacity		
AC 21 A/AC 22 A	63 Amp, 230 V to 690 V	160 Amp, 400 V to 690 V
AC 23 A	15 kW, 230 V	
	22 kW, 400 V	80 kW, 400 V
	30 kW, 500 V	110 kW, 500 V
	18.5 kW, 690 V	55 kW, 690 V
AC 3	11 kW, 230 V	
	18.5 kW, 400 V	90 kW, 400 V
	22 kW, 500 V	70 kW, 500 V
	15 kW, 690 V	
DC 21	—	160 Amp, 220 V ①
		160 Amp, 440 V ①
DC 22	—	160 Amp, 220 V ①
		100 Amp, 440 V ①
DC 23	—	160 Amp, 220 V ①
		63 Amp, 440 V ①
Auxiliary Contacts		
Rated Insulation Voltage	400 V	230 V
Rated Operating Voltage	400 V	230 V
Rated Operating Current	10 Amp	10 Amp
Switching Capacity		
AC 15	6 Amp, 230 V	
	4 Amp, 400 V	6 Amp, 230 V
Others		
Termination (flexible/solid)	35 mm ² (0.054 in ²)	120 mm ² (0.186 in ²)

CONTROL S: ATEX/IECEX INCREASED SAFETY CALL POINTS STATIONS AND AUDIO SIGNALING DEVICES



① 2 contacts connected in series per pole.

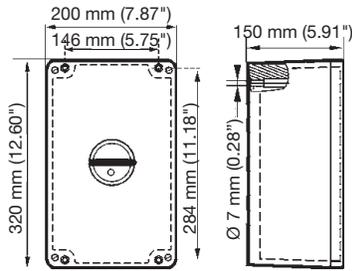
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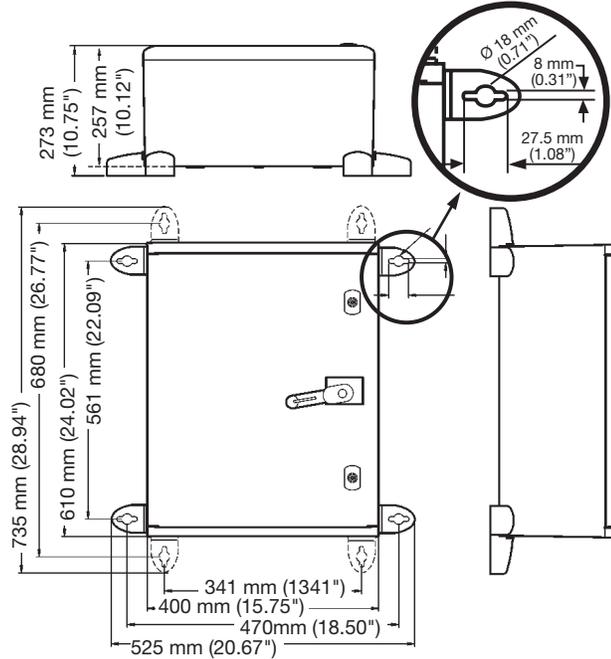
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Dimensions in Millimeters (Inches)

40 Amp/63 Amp Polyester Version



160 Amp Polyester Version



160 Amp Stainless Steel Version

