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
Ⓔx 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 mm^2 (0.054 in^2).
  - — Auxiliary contact termination: 2.5 mm^2 (0.004 in^2).
  - — 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 mm^2 (0.1860 in^2).
  - — Auxiliary contact termination: 2.5 mm^2 (0.004 in^2).
  - — 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: Ⓔx 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: Ⓔx II2 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: Ⓔx 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: Ⓔx II2 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. Гб05.B.00911
- Certification Type: JBe (Stainless steel box)
  - — EURASEC RU C-FR.Гб05.B.00911

Other Certification ①

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

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

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II 2 GD
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Catalog Numbering Guide

SWE **040** **S** **3** **00** **A** **G**

- **SWE**: SWE Series: SWE - ATEX/IECEx Certified Switches, Circuit Breakers and Call Points
- **040**: Amperage: 040 - 40A; 063 - 63 A; 160 - 160 A
- **S**: Switch Type: S - Switch; C - Changer or Selector Switch
- **3**: Number of Poles: 3 - 3-Pole; 4 - 4-Pole
- **00**: Contact Configuration: 00; 01; 02
- **A**: Cable Entry: A - 2 x M20; B - 3 x M20; C - 2 x M25; D - 2 x M25 + 1 x M20; E - 2 x M32 + 1 x M20; F - 2 x M40 + 1 x M20; G - 2 x M50 + 1 x M20; H - 2 x M63 + 1 x M20; J - 2 x M63 + 1 x M25
- **G**: Options: G - With Cable Gland and Blanking Plug; P - With Brass Earth Continuity Plate; S - Stainless Steel Box

Wiring Diagram No.

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

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

S402

	Contacts				
Positions	**Aux**	**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 30 kW, 500 V 18.5 kW, 690 V	80 kW, 400 V 110 kW, 500 V 55 kW, 690 V
AC 3	11 kW, 230 V 18.5 kW, 400 V 22 kW, 500 V 15 KW, 690 V	90 kW, 400 V 70 kW, 500 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)

① *2 contacts connected in series per pole.*

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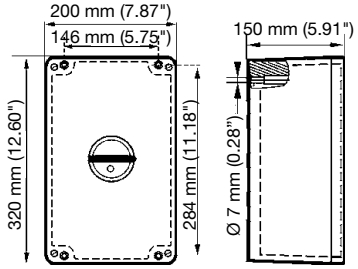
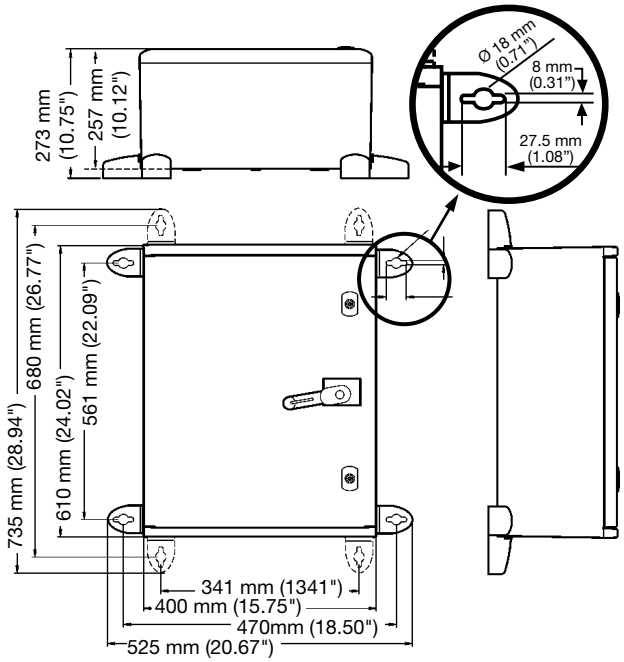
Dimensions in Millimeters (Inches)

40 Amp/63 Amp Polyester Version



160 Amp Polyester Version



160 Amp Stainless Steel Version