

Make Life Easy



Ensuring Your Protection in Potentially Dangerous Areas



The Key to Your Safety

Ø22/25 Emergency Stop Button Switches SF2ER Series

The SF2ER series emergency stop button switches are used to stop operation of machines during emergency situations.



Independent Contacts



High Durability



Smooth Operation



D30



D40



D40-EMS
(Emergency Machine Stop)



D40-EMO
(Emergency Machine Off)

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Ordering Information

SF2ER - E ① R ② - ③

① Button

- 1: D30 (short head, non-illuminated)
- 2: D40 (short head, non-illuminated)

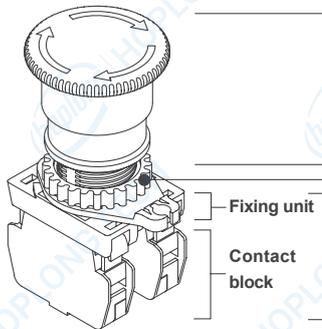
② Mark

- No-mark: No-mark
- A: EMO
- S: EMS

③ Contact block

- B: B contact: 1
- AB: A contact: 1, B contact: 1
- 2B: B contact: 2
- A2B: A contact: 1, B contact: 2
- 3B: B contact: 3

Parts Descriptions



- Control unit**
It operates contact when user pushes it.
- Fixing unit**
It fixes the switch onto the panel.
- Operation unit**
It consists of mounting unit, which fixes the switch and contact block, and contact block.

Specifications

Model	SF2ER-□□□□-□
Rated voltage/current	IEC: AC-15 (220 VAC~, 3 A), DC-13 (220 VDC=, 0.2 A) UL: A300, Q300
Contact operating power	3.0 to 8.0 N/ 1 contact
Operation distance	5.0 mm (0/-0.5)
Rotation angle	CW (clock wise) 52°
Allowable operation frequency ⁽⁰¹⁾	Mechanical: 20 times/minute Electrical: 20 times/minute
Life cycle	Mechanical: Min. 250,000 times Electrical: Min. 100,000 times
Applicable wire	AWG 18 (0.823 mm ²)
Insulation resistance	≥ 100 MΩ (500 VDC= megger)
Dielectric strength	2,500 VAC~ 50/60 Hz for 1 minute
Vibration	1.5 mm double amplitude at frequency of 10 to 55 Hz (for 1 min) in each X, Y, Z direction for 2 hours
Vibration (malfunction)	1.5 mm double amplitude at frequency of 10 to 55 Hz (for 1 min) in each X, Y, Z direction for 10 minutes
Shock	1,000 m/s ² (= 100 g) in each X, Y, Z direction for 3 times
Shock (malfunction)	250 m/s ² (= 25 g) in each X, Y, Z direction for 3 times
Ambient temperature	-20 to 65°C ⁽⁰²⁾ ; storage : -40 to 70 °C (at no freezing or condensation)
Ambient humidity	35 to 85 %RH , storage : 35 to 85 %RH (at no freezing or condensation)
Protection structure	IP65 ⁽⁰³⁾ (oil resistant, IEC standards)
Material	Button: PC, BODY: PA6, lever in fixing unit: PA6
Approval	CE, UL, VDE, TÜV
Weight ⁽⁰⁴⁾	≈ 66g

01) Setting and resetting once is counted as one operation.

02) UL approved ambient temperature: 55 °C

03) It is only for part from front of the panel. Protection structure is guaranteed only when the switch is installed on flat and smooth surface with mounting holes Ø22mm.

04) It is switch with three contact blocks.

Contact capacity

• IEC (EN60947-5-1)

Rated current		10 A			
Rated voltage		24 V	110 V	220 V	380 V
AC	Resistive load (AC-12)	10 A	10 A	6 A	3 A
	Inductive load (AC-15)	10 A	5 A	3 A	2 A
DC	Resistive load (DC-12)	10 A	2 A	0.6 A	0.2 A
	Inductive load (DC-13)	1.5 A	0.5 A	0.2 A	0.1 A

• UL / CSA (UL508, CSA C22.2 No. 14)
A300

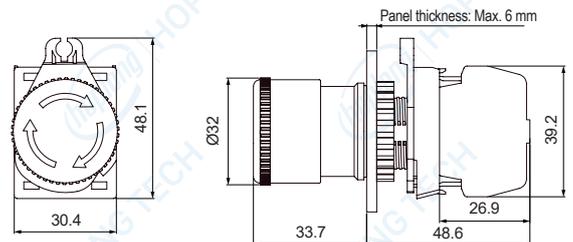
Rated voltage	Through current	Current (A)		Volt ampere (VA)	
		Making	Breaking	Making	Breaking
AC120 V	10 A	60	6	7,200	720
AC240 V		30	3		

Q300

Rated voltage	Through current	Current (A)		Volt ampere (VA)	
		Making	Breaking	Making	Breaking
DC125 V	2.5 A	0.55	0.55	69	69
DC250 V		0.27	0.27		

Dimensions

■ D30 (short head, non-illuminated)



■ D40 (short head, non-illuminated)

