

1221751

<https://www.phoenixcontact.com/us/products/1221751>

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Contact module for modular emergency stop switches with N/O contact for feedback function through actuation of the emergency stop switch

Product description

Phoenix Contact emergency stop switches are electromechanical switching devices with a safety function. They are used to safely shut down or stop machines and systems in order to prevent or minimize personal injury and property damage. The portfolio includes a modular system as well as a preconfigured solution. The modular emergency stop switch is comprised of the following components: - PSR-ESS-M0-H100 /...110 / ...120 actuator - PSR-ESS-ACC-CB1-C... module holder - PSR-ESS-ACC-CB1-NC-SC or PSR-ESS-ACC-CB1-SM-SC safe contact module Further contact modules can be combined if required.

Your advantages

- Modular system allows an efficient solution for individual applications
- Feedback function allows the emergency stop switch status to be evaluated

Commercial data

Item number	1221751
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN04
Product key	DNA62Z
GTIN	4063151310653
Weight per piece (including packing)	29.5 g
Weight per piece (excluding packing)	12 g
Customs tariff number	85365080
Country of origin	DE

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## Technical data

### Notes

#### Note on application

Note on application	Only for industrial use
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### Product properties

Product type	Contact module
Product family	Modular emergency stop switches
Application	Feedback function
Recommended backup fuse	16 A (SCPD Car. C)

#### Insulation characteristics

Overvoltage category	III
Protection class	II
Pollution degree	3

### Electrical properties

Short-circuit current	1000 A (conditional short-circuit current $I_q$ )
Rated surge voltage	4 kV

#### Contact information

Contact switching type	1 N/O contact
Contact material	AgNi
Actuating travel	6 mm
Voltage	min. 5 V
	max. (see load limit current)
Current	min. 1 mA
	max. (see load limit current)
Electrical service life	$10^6$ switching cycles
Mechanical service life	$10^6$ cycles
Contact resistance	< 20 mΩ
Bouncing time	< 10 ms

#### Load limit current in accordance with IEC/EN 60947-5-1

Standard	IEC/EN 60947-5-1
Utilization category	AC15 A600
Rated insulation voltage $U_i$	600 V
Rated operating voltage $U_e$	240 V
	440 V
Rated operating current $I_e$ (AC-15, 230 V)	3 A
Rated operating current $I_e$	1.6 A
Switching capacity	$10 \times I_e$
Thermal continuous current $I_{th}$	16 A

# PSR-ESS-ACC-CB1-NO-SC - Contact module



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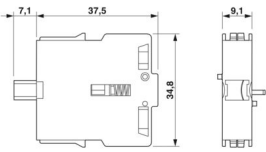
Utilization category	DC13 Q600
Rated insulation voltage $U_i$	600 V
Rated operating voltage $U_e$	440 V
	250 V
	125 V
	60 V
	24 V
Rated operating current $I_e$	0.12 A
	0.2 A
	0.4 A
	1 A
	2 A
Switching capacity	$1.1 \times I_e$
Utilization category	DC13
Rated operating voltage $U_e$	12 V
Rated operating current $I_e$	5 A
Switching capacity	$1.1 \times I_e$

## Connection data

### Conductor connection

Connection method	Screw connection
Note regarding the connection technology	2 conductors possible per terminal point, with one conductor on each side of the screw
Conductor cross-section rigid	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section flexible	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Flexible conductor cross-section with ferrule	0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section AWG	20 ... 14 (rigid and flexible conductors without ferrules)
	23 ... 14 (flexible conductors with ferrules)
Stripping length	8 mm ... 9 mm
Tightening torque	0.8 Nm ... 1 Nm

## Dimensions

Dimensional drawing	
Width	9.1 mm
Height	34.8 mm
Depth	44.6 mm

## Material specifications

Color (Housing)	green (RAL 6021)
Flammability rating according to UL 94	V0

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Housing material	PA
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-30 °C ... 85 °C (in conjunction with lighting module max. 65°C)
Ambient temperature (storage/transport)	-50 °C ... 85 °C
Maximum altitude	max. 2000 m (Above sea level)
Shock	15g / 11 ms, in accordance with IEC 60068-2-27
Vibration (operation)	10 Hz ... 500 Hz, 0.35 mm amplitude, 5g, in accordance with IEC 60068-2-6

## Mounting

Mounting type	Plug-in mounting
Mounting position	any

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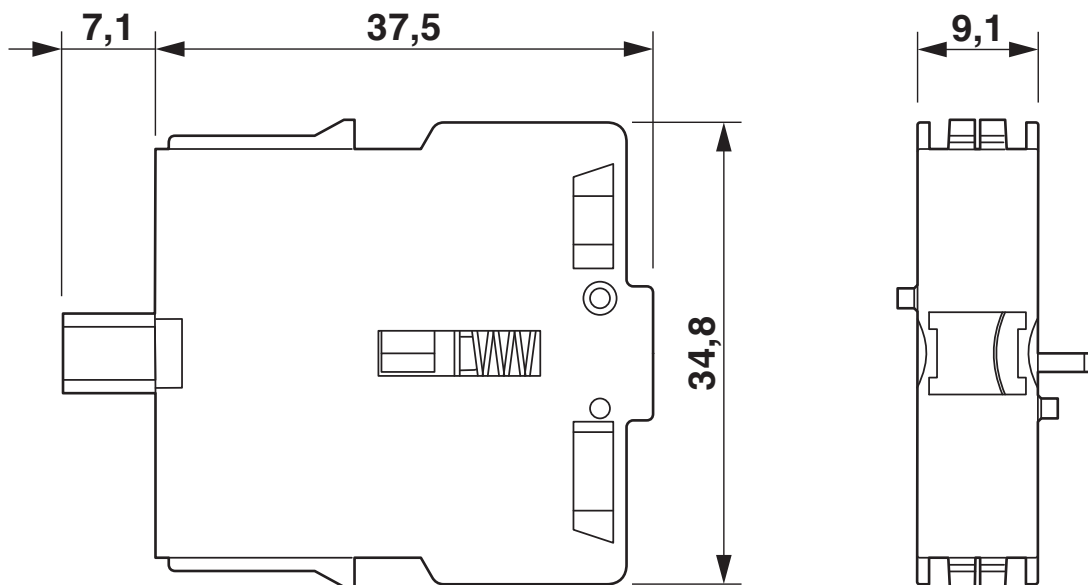
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## Drawings

Dimensional drawing



Dimensions (in mm)

# PSR-ESS-ACC-CB1-NO-SC - Contact module



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1221751>



### UL Listed

Approval ID: E140324



### cUL Listed

Approval ID: E140324



### Functional Safety

Approval ID: B 029429 0031



### EAC

Approval ID: RU\*DE\*B\*00073/21

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## Classifications

### ECLASS

ECLASS-13.0	27371302
ECLASS-15.0	27371302

### ETIM

ETIM 9.0	EC000041
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### UNSPSC

UNSPSC 21.0	39122200
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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