

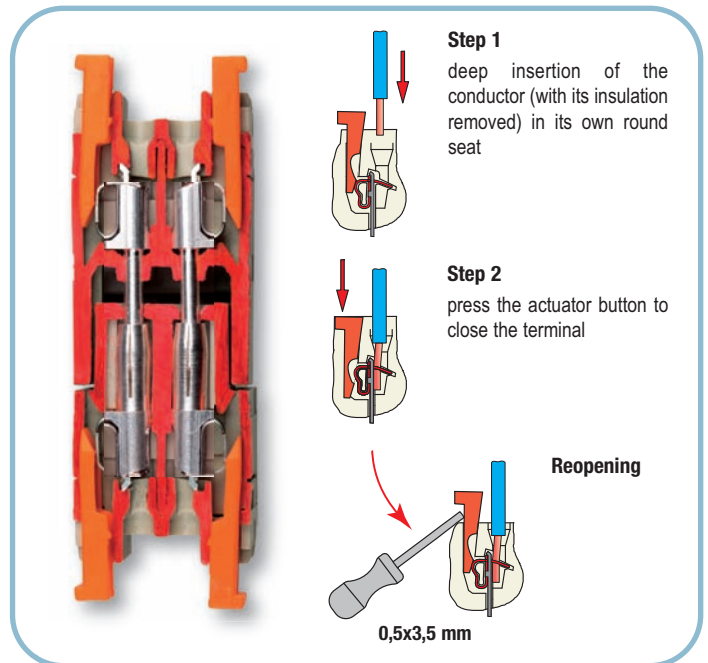
# CSAH - SQUICH® series

## Spring connection contacts with actuator button

### Inserts series: CSAH

In this layout the wires are connected to the socket and plug insert contacts by means of a spring terminal with actuator button. This type of connection offers the following advantages:

- › no special wire preparation (**other than stripping**);
- › no cabling tool is necessary;
- › it offers an excellent fastening solution and a great resistance to strong vibrations;
- › it allows the use of rigid and flexible wires with cross-sections between 0,14 and 2,5 mm<sup>2</sup> (26 - 14 AWG);
- › for wires with crimped ferrule, useful cross-section: up to 1,5 mm<sup>2</sup> (AWG 16);
- › it greatly reduces insert preparation and cabling times;
- › a screwdriver with a 0,5 x 3,5 mm blade is the only tool required to remove the wire from the contact.



| Inserts series                       |  | CSAH  |
|--------------------------------------|--|---|
| No. of poles <sup>1)</sup>           | main contacts + ⊕                          | <b>10, 16, (32)</b>   |
|                                      | auxiliary contacts                         | --  |
| rated current <sup>2)</sup>          |  | 16A   |
| EN 61984<br>pollution degree 3       | rated voltage                              | 250V  |
|                                      | rated holding<br>impulse withstand voltage | 4kV   |
|                                      | pollution degree                           | 3   |
| EN 61984<br>pollution degree 2       | rated voltage                              | 230V/400V   |
|                                      | rated holding<br>impulse withstand voltage | 4kV   |
|                                      | pollution degree                           | 2   |
| contact resistance                   |  | ≤ 3 mΩ  |
| insulation resistance                |  | ≥ 10 GΩ   |
| ambient temperature limit<br>(°C)    | min  | -40 °C  |
|                                      | max  | +125 °C   |
| degree of protection                 | with enclosures                            | IP65, IP66, IP69<br>(according to type)   |
|                                      | without enclosures                         | IP20  |
| conductor connections                |  | spring with actuator button   |
| conductor cross-section              | mm <sup>2</sup>                            | 0,14 - 2,5 (for wires with crimped ferrule, usable section: up to 1,5 mm <sup>2</sup> ) |
|                                      | AWG  | 26 - 14 (AWG 16 with crimped ferrule)   |
| mechanical endurance (rating cycles) |  | ≥ 500   |

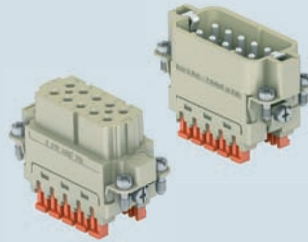
- 1) Polarities shown in brackets may be achieved by using two inserts in their own double housings.
- 2) Please check the insert load curves to establish the actual maximum operating current according to the ambient temperature.

enclosures:  
size "49.16" page:

IL-BRID ..... 230 - 232  
W-TYPE for aggressive environments ..... 370  
EMC ..... 390

panel supports: page:  
COB + adaptor ..... 462 - 464

inserts,  
spring terminal connections



silver  
plated  
contacts

**NEW**

description

part No.

spring terminals with actuator button  
female inserts with female contacts  
male inserts with male contacts

**CSAHF 10**  
**CSAHM 10**

- characteristics according to EN 61984:

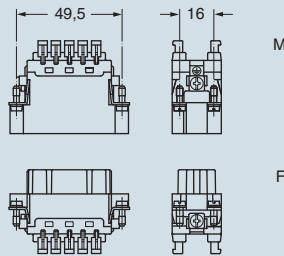
**16A 250V 4kV 3**  
**16A 400V 4kV 2**

- certifications: (cUL - UL for USA and Canada), (CSA),  
CCC \*, (EAC); the certifications shown in brackets are  
being applied for;

\* CQC certification being applied for

- insulation resistance:  $\geq 10 \text{ G}\Omega$
- ambient temperature limit:  $-40 \text{ }^\circ\text{C} \dots +125 \text{ }^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin  
UL 94 V0
- mechanical life:  $\geq 500$  cycles
- contact resistance:  $\leq 3 \text{ m}\Omega$
- for maximum current load, see the following load  
curves inserts, for more information see page 558

dimensions in mm



contacts side (front view)

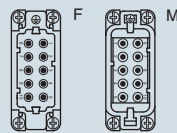
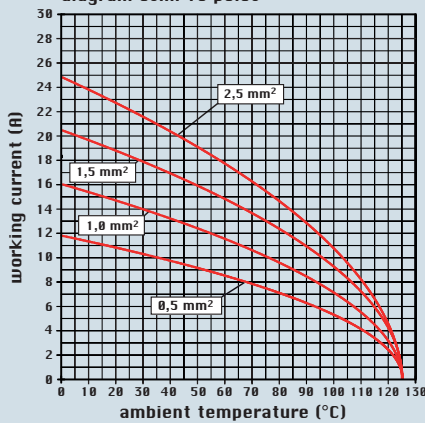
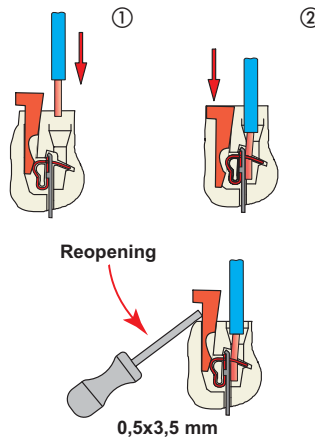


diagram CSAH 10 poles



- inserts for connectors with the following sections:  
0,14 - 2,5 mm<sup>2</sup> - AWG 26 - 14
- for wires with crimped ferrule, usable section:  
up to 1,5 mm<sup>2</sup> (AWG 16)
- conductors stripping length: 9...11 mm

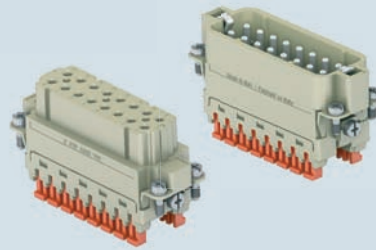
**SQUICH® connections**



dimensions shown are not binding  
and may be changed without notice

enclosures:  
 size "66.16" page:  
 IL-BRID ..... 233 - 235  
 W-TYPE for aggressive environments ..... 371  
 EMC ..... 391  
 panel supports: page:  
 COB + adaptor ..... 462 - 464

inserts,  
 spring terminal connections



silver plated contacts

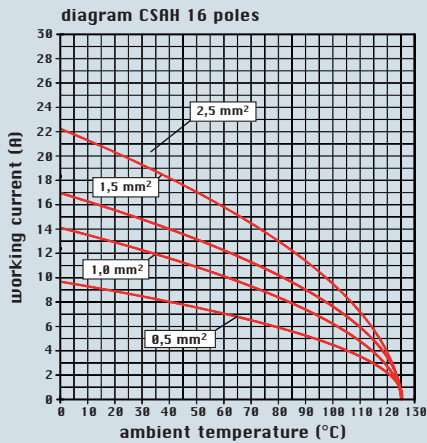
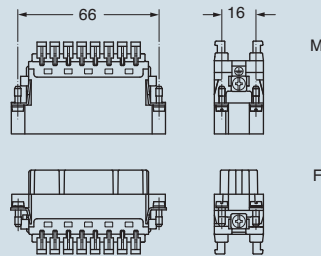
**NEW**

description  
 spring terminals with actuator button  
 female inserts with female contacts  
 male inserts with male contacts

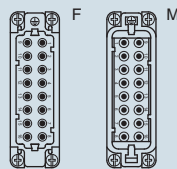
part No.  
**CSAHF 16**  
**CSAHM 16**

- characteristics according to EN 61984:  
**16A 250V 4kV 3**  
**16A 400V 4kV 2**
- certifications: (cUL - UL for USA and Canada), (CSA), CCC \*, (EAC); the certifications shown in brackets are being applied for;  
 \* CQC certification being applied for
- insulation resistance:  $\geq 10 \text{ G}\Omega$
- ambient temperature limit:  $-40 \text{ }^\circ\text{C} \dots +125 \text{ }^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life:  $\geq 500$  cycles
- contact resistance:  $\leq 3 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see page 558

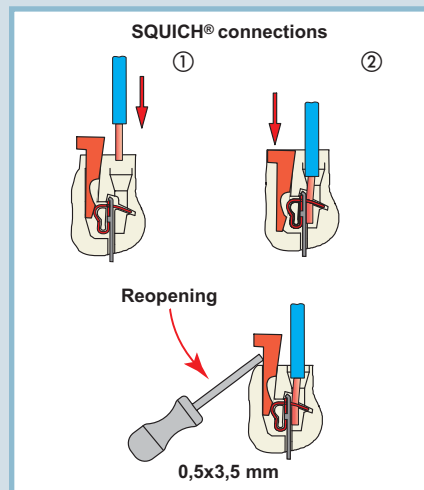
dimensions in mm



contacts side (front view)



- inserts for connectors with the following sections: 0,14 - 2,5 mm² - AWG 26 - 14
- for wires with crimped ferrule, usable section: up to 1,5 mm² (AWG 16)
- conductors stripping length: 9...11 mm



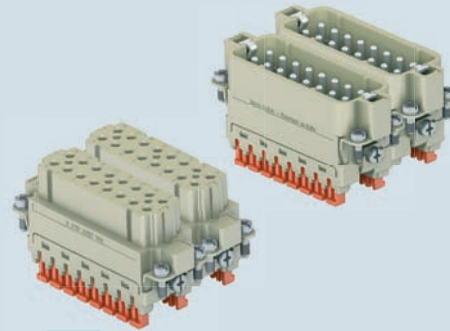
dimensions shown are not binding  
 and may be changed without notice

enclosures:  
size "66.40"

page:

C-TYPE IP65/IP66 ..... 237 - 239  
W-TYPE for aggressive environments ..... 372

inserts,  
spring terminal connections



silver plated contacts

**NEW**

| description                            | part No. | part No.   |
|--|----------|------------|
| spring terminals with actuator button  | CSAHF 16 | CSAHF 16 N |
| female inserts, No. (1-16) and (17-32) | CSAHM 16 | CSAHM 16 N |
| male inserts, No. (1-16) and (17-32)   |          |            |

- characteristics according to EN 61984:

**16A 250V 4kV 3**  
**16A 400V 4kV 2**

- certifications: (cUL - UL for USA and Canada), (CSA), CCC \*, (EAC); the certifications shown in brackets are being applied for;

\* CQC certification being applied for

- insulation resistance:  $\geq 10 \text{ G}\Omega$

- ambient temperature limit:  $-40 \text{ }^\circ\text{C} \dots +125 \text{ }^\circ\text{C}$

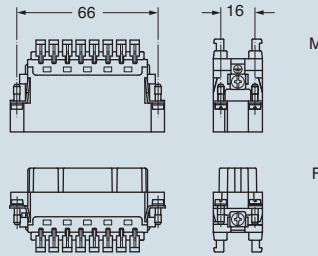
- are made of self-extinguishing thermoplastic resin UL 94 V0

- mechanical life:  $\geq 500$  cycles

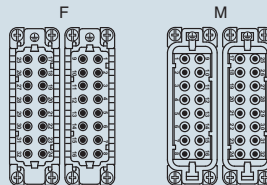
- contact resistance:  $\leq 3 \text{ m}\Omega$

- for maximum current load, see the following load curves inserts, for more information see page 558

dimensions in mm

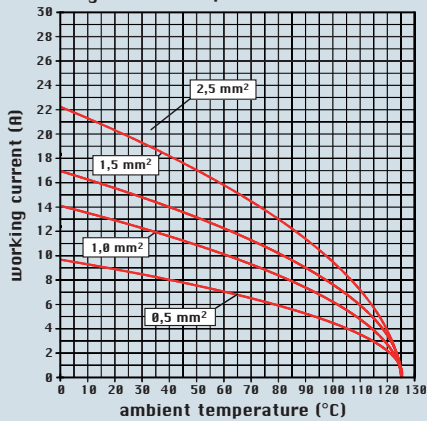


contacts side (front view)



- inserts for connectors with the following sections: 0,14 - 2,5 mm<sup>2</sup> - AWG 26 - 14
- for wires with crimped ferrule, usable section: up to 1,5 mm<sup>2</sup> (AWG 16)
- conductors stripping length: 9...11 mm

diagram CSAH 32 poles



dimensions shown are not binding and may be changed without notice

