

Miniature Circuit Breakers

E2000 Miniature Circuit Breakers

Series CA Auxiliary Switch and Bell Alarm

Applications

- Commercial
- Industrial

Features

- Common for all MCBs
- Can be coupled on both sides of MCBs
- Gold contact version available for low current and low voltage applications
- Stack up to four CA on left and right sides
- Permits the pass-through of busbars, pin and fork, top and bottom, by changing the position of the base of the auxiliaries

Performance

Change-over contacts	1 Form C
Rate current In (A)	5
Rated voltage AC Un (V)	240
Electrical endurance	10000
Terminal capacity flexible/rigid cable (mm ²)	2.5
Weight (g)	70

Functions

Auxiliary contacts are units to be added on to protection devices. They allow information about the status of the protection device to be monitored from a distance.

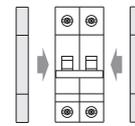
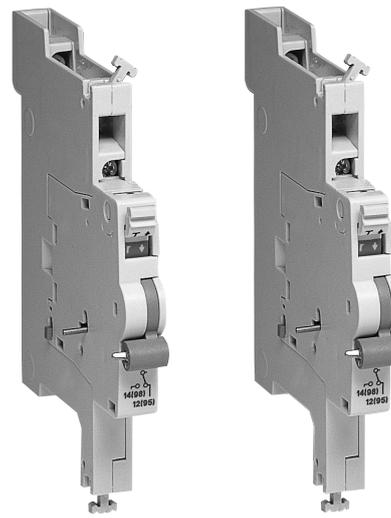
Auxiliary contact CA H (function H) reports the OPEN/CLOSED status. CA S/H or CA S/H G act as either an auxiliary contact (function H) or a signal contact (function S). The user can set the function at the time of installation. When used as a signal contact, it reports information about the automatic tripping of the protection devices. A test button on the front simulates functions H or S. There are also a reset button for the contacts (function S) and a tripping signal (function S).

Approval/Marking

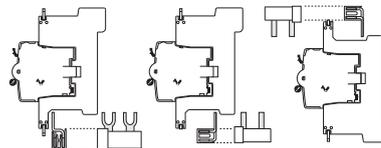
- CE
- cURus
- CEBEC
- KEMA EUR

Series CA

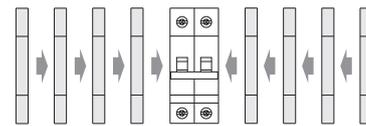
Function	Std. Pack	Product No.
H	1	CA H
S/H	1	CA S/H
S/H (gold contacts)	1	CA S/H G
Padlocking Bracket	25	KS



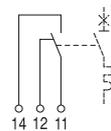
Coupling



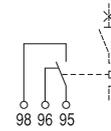
Busbar pass-through



Stack-on



H



S

1/2 mod.



Miniature Circuit Breakers

E2000 Miniature Circuit Breakers

Series CB Auxiliary Switch and Bell Alarm

Applications

- Commercial
- Industrial

Features

- Common for all MCBs
- Can be coupled on both sides of MCBs
- There are two change-over contacts – the upper one features changeable function S/H
- CB SH/HH-R couples to the right side of the protection devices; CB SH/HH-L couple to the left
- No stack-on possibilities (only one auxiliary)
- No busbar pass-through facilities

Performance

Change-over contacts	2 Form C
Rate current In (A)	5
Rated voltage AC Un (V)	240
Electrical endurance	10000
Terminal capacity flexible/rigid cable (mm ²)	2.5
Weight (g)	80

Functions

The bottom auxiliary contact (function H) reports the OPEN/ CLOSED status.

The top auxiliary contact can act as either an auxiliary contact (function H) or a signal contact (function S). The user can set the function at the time of installation. When used as a signal contact, it reports information about the automatic tripping of the protection devices.

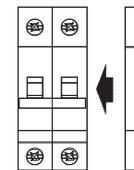
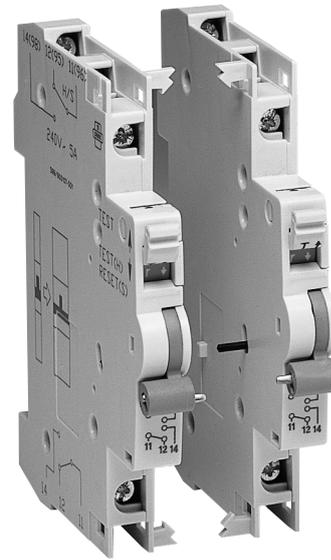
A test button on the front simulates functions H or S. There are also a reset button for the contacts (function S) and a tripping signal (function S).

Approval/Marking

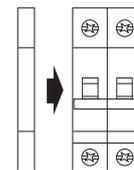
- cURus

Series CB

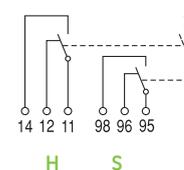
Function	Coupling	Std. Pack	Product No.
SH/HH	Right	1	CB SH/HH-R
SH/HH	Left	1	CB SH/HH-L



Coupling right



Coupling left



1/2 mod.



Miniature Circuit Breakers

E2000 Miniature Circuit Breakers

Shunt Trip and Undervoltage Release

Applications

- Commercial
- Industrial

Features

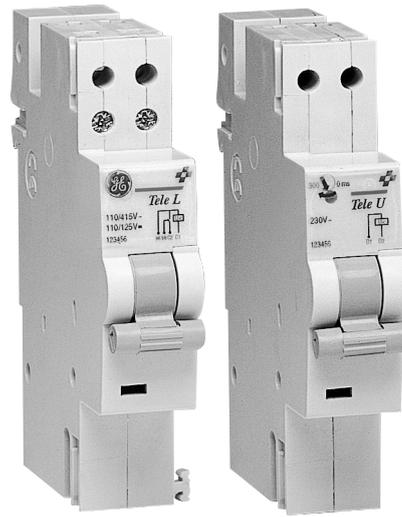
- Common devices for all miniature circuit breakers
- Can be coupled on both sides of MCBs
- Permits pass-through of busbars, pin and fork, at top or bottom terminals
- Stack up to four modules on left and right sides

Approval/Marking

- cURus
- IEC 947-2

Shunt Trip Tele L

The Tele L allows remote switching of any miniature circuit breaker by means of push buttons or any other automatic management processor. A built-in contact, in series with the coil, prevents burnout damage if the voltage remains.



Shunt Trip Tele L Performance

Rated voltage (V)	110/415, 110/125 DC
(V)	24/60, 24/48 DC
Tripping time (ms)	<10
Electrical endurance	10000
Terminal capacity flexible/rigid cable (mm ²)	2.5
Weight (g)	125

Shunt Trip Tele L

Poles	Std. Pack	Voltage		Product No.
		AC	DC	
1	1	24-60 V	24-48 V	TELE L-1
		110-415 V	110-125 V	TELE L-2

Undervoltage Release Tele U

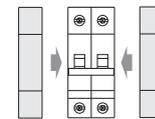
The Tele U releases the main miniature circuit breaker in case the power supply drops below 0.5xUn. Time delay is adjustable up to 300 ms.

Undervoltage Release Tele U Performance

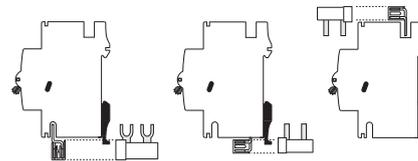
Rated voltage AC UN (V)	240
Rated voltage DC/AC UN (V)	12, 24, 48 DC/AC
Tripping voltage (V)	≤0.5xUN ±10%
Resetting voltage (V)	>0.5xUN ±10%
Tripping time (ms)	Adjustable 1-300
Electrical endurance	2000
Terminal capacity flexible/rigid cable (mm ²)	2.5
Weight (g)	125

Undervoltage Release Tele U

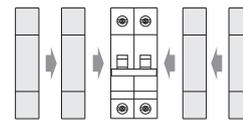
Poles	Std. Pack	Voltage	Product No.
AC/DC 12V	TELE U-12		
AC/DC 24V	TELE U-24		
AC/DC 48V	TELE U-48		



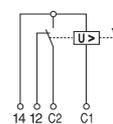
Coupling



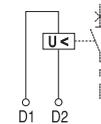
Busbar pass-through



Stack-on



Shunt Trip Tele L



Undervoltage Release Tele U

