

HH45LE MCB+ELCB

Description of the Operating System

It is a combination of automatic circuit breaker and residual current electromagnetic device. It combines part of the properties of the two elements. The circuit breaker reacts at short circuit in the protected circuit, and the electromagnetic residual current device - at failure in the conductors' insulation.

STANDARDS: EN60898-1 EN61009-1 EN61009-2 EN60947-1

Functions

- switching off heavy-loaded electrical circuits at short circuit or overload
- switching off heavy-loaded electrical circuits at insulation damage of the conductors to consumers
- switching off heavy-loaded electrical circuits at presence of a person under voltage
- used to protect not only particular consumers/circuits, but also the whole panel
- remarkable with high reliability of current characteristics
- control: manual switching on and automatic switching off at exit failure

Technical Data

*Rated operating voltage: 230/400V 50Hz

*Residual current responsiveness: 30; 100; 300; 500mA

*Time delay until break:

-of the residual current device: <math><0.1\text{ s}</math> at $I? n$ and <math><0.04\text{ s}</math> at $2I? n$

-of the circuit breaker: <math><0.1\text{ s}</math>

*Circuit breaker breaking curve : C

*Surge voltage wear resistance: ?2000V

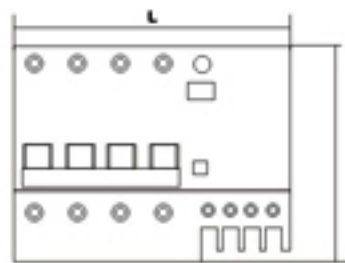
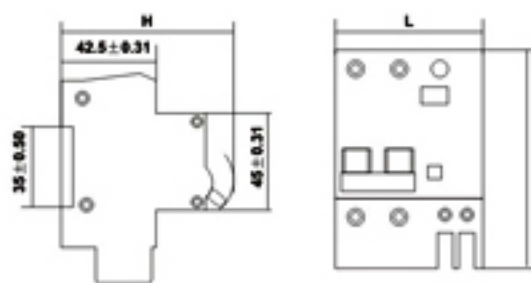
*Breaking capacity: 4500A



Combined electronic residual current device 1P+N



Combined electronic residual current device 3P + N



Geometrical dimensions

Geometrical dimensions				
L(mm)	1P+N	2P	3P	3P+N
H(mm)	44	62	88	115.5
	95	95	95	95

Type designation	Number of poles of the residual current device/circuit breaker	Breaking capacity (kA)	Sections of the mounting conductors (mm ²)	Rated current (A)	Package/Box (pcs)
C41LE C10	2	4.5	1.5	10	7/140
C41LE C16	2	4.5	2.5	16	7/140
C41LE C25	2	4.5	4.0	25	7/140
C41LE C40	2	4.5	10.0	40	7/140
C41LE C50	2	4.5	16.0	50	7/140
C42LE C10	2	4.5	1.5	10	5/100
C42LE C16	2	4.5	2.5	16	5/100
C42LE C25	2	4.5	4.0	25	5/100
C42LE C40	2	4.5	10.0	40	5/100
C42LE C50	2	4.5	16.0	50	5/100

Type designation	Number of poles of the residual current device/circuit breaker	Breaking capacity (kA)	Sections of the mounting conductors (mm ²)	Rated current (A)	Package/Box (pcs)
C43LE C10	3	4.5	1.5	10	3/60
C43LE C16	3	4.5	2.5	16	3/60
C43LE C25	3	4.5	4.0	25	3/60
C43LE C40	3	4.5	10.0	40	3/60
C43LE C50	3	4.5	16.0	50	3/60

Type designation	Number of poles of the residual current device/circuit breaker	Breaking capacity (kA)	Sections of the mounting conductors (mm ²)	Rated current (A)	Package/Box (pcs)
C44LE C10	4	4.5	1.5	10	2/40
C44LE C16	4	4.5	2.5	16	2/40
C44LE C25	4	4.5	4.0	25	2/40
C44LE C40	4	4.5	10.0	40	2/40
C44LE C50	4	4.5	16.0	50	2/40