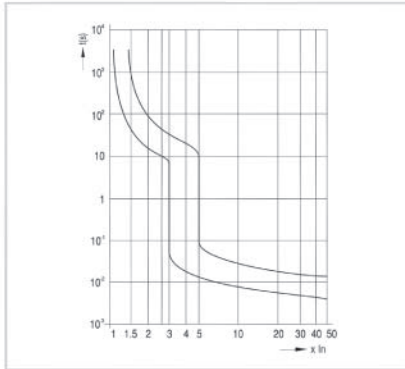
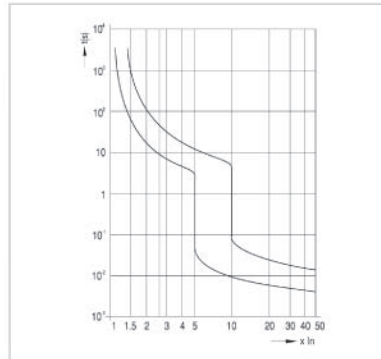


### Curves Acc. EN60898 (Thermal / Magnetic Release)

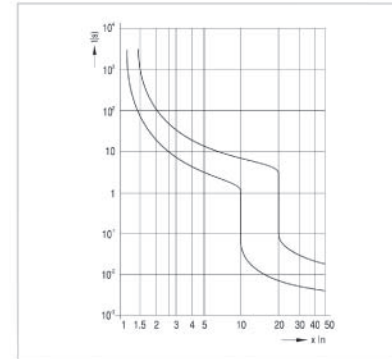
Curve B



Curve C



Curve D



#### 6. The modular equipment program

Elfa miniature circuit breakers can be combined with residual-current trips, remote-control drives and auxiliary contacts. As variants they are also intended for direct-current systems, marine construction and railway engineering as well as for plants at increased ambient temperatures.

#### Your advantage

Using the complete delivery program widely different duties can be rationally and economically performed by compact equipment combinations. Supplementary elements can be fitted on later.

#### 7. The remote-control facility

Elfa miniature circuit breakers up to 63 A current rating with remote-control drive can be switched on and off over distances by press of a button.

#### Your Advantage

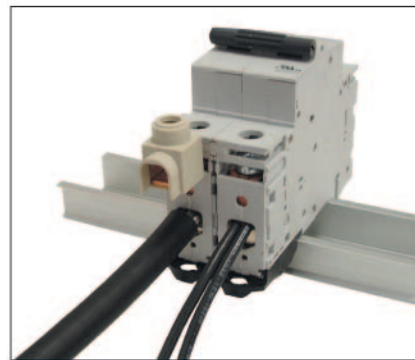
Elfa miniature circuit breakers do not have to be mounted within hand reach.

#### 8. The input terminal

The large-sized input box terminal permits both the connection of conductors up to 35 mm<sup>2</sup>, (#2 AWG) and simultaneous busbar connection. Elfa miniature circuit breakers of more than 63 A current rating can even clamp conductors up to 70 mm<sup>2</sup>, (#2/0 AWG).

#### Your advantage

Elfa miniature circuit breakers save supplementary terminals and reduce installation costs.



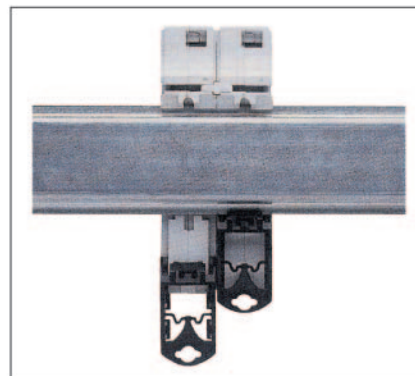
#### 9. The output terminals

Elfa E90S miniature circuit breakers have an IP20 finger safe protected box terminal that has a wide range of connections. From #18-#2 awg wire, including pin and fork type buss. (35 / 2 x 16mm<sup>2</sup> max.)

#### Your Advantage

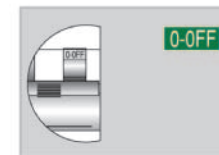
Short installation times and simple wiring of multi-strand conductors.

**10. "Two" position snap mount** makes installing breakers a snap. Positive lock in "open" and locked position. A real plus when removing multi pole breakers.



#### 11. The operating toggle

Elfa miniature circuit breakers have color coded switch position indicators. If the green marking is visible, the switch contacts are open, if the red marking is visible, the switch contacts are closed.



#### O-OFF

Contacts in open position. Ensure a distance between contacts > 4mm.



#### I-ON

Contacts in closed position. Ensure continuity in the main circuit.

### APPROVALS

UL (UL 1077), CSA RATINGS  
277/480 VAC (0.5 TO 63A) @ 10KA

Approvals International Type E90 Breakers are used worldwide and meet international standards:  
CE, IEC, VDE, CEBEC, KEMA, BS, IMQ.

European Standard Ratings  
240/415 VAC, 6 to 110 Volt DC

UL 1077 Standard for Supplementary Equipment. UL 1077 is used for over current protection within electrical equipment, where branch circuit protection is already provided or not required.