

## Specifications | Miniature Circuit Breakers PLS6-DC

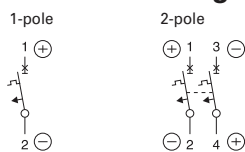
### Description

- High selectivity between MCB and back-up fuse due to low let-through energy
- Compatible with standard busbar
- Twin-purpose terminal (lift/open-mouthed) above and below
- Busbar positioning optionally above or below
- Meets the requirements of insulation co-ordination, distance between contacts  $\geq 4$  mm, for secure isolation
- Rated breaking capacity 10 kA acc. to IEC/EN 60947
- Rated voltage to 250 V (per pole),  $\tau = 4$  ms
- Take into account polarity!

### Accessories:

Auxiliary switch for subsequent installation	ZP-IHK	286052
	ZP-WHK	286053
Tripping signal contact for subsequent installation	ZP-NHK	248437
Remote control and automatic switching device	Z-FW/LP	248296
Shunt trip release	ZP-ASA/..	248438, 248439
Undervoltage release	Z-USA/..	248288-248291
Compact enclosure	KLV-TC-2	276240
	KLV-TC-4	276241
Additional terminal 35 mm <sup>2</sup>	Z-HA-EK/35	263960
Switching interlock	Z-IS/SPE-1TE	274418

### Connection diagrams



### Technical Data

#### Electrical

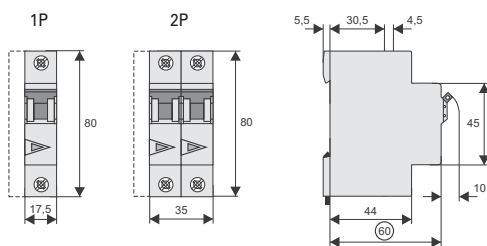
Design according to	IEC/EN 60947-2
Current test marks as printed onto the device	
Rated voltage	
DC	1-2 A type: 220V (per pole) 3-5 A type: 250V (per pole)
Rated breaking capacity acc. to IEC/EN 60947-2	10 kA
Characteristic	C
Back-up fuse	max. 100 A gL
Selectivity class	3
Rated impulse withstand voltage $U_{imp}$	4 kV (1.2/50 $\mu$ s)
Endurance	electrical comp. $\geq 4,000$ switching op. mechanical comp. $\geq 20,000$ switching op.
Line voltage connection	optional (above/below)

#### Mechanical

Frame size	45 mm
Device height	80 mm
Device width	17.5 mm per pole (1MU)
Mounting	quick fastening with 3 lock-in positions on DIN rail IEC/EN 60715
Degree of protection	IP20
Upper and lower terminals	open mouthed/lift terminals
Terminal protection	finger and hand touch safe DGUV VS3, EN 50274
Terminal capacity	1-25 mm <sup>2</sup>
Terminal fastening torque	2-2.4 Nm
Busbar thickness	0.8-2 mm
Mounting	independent of position

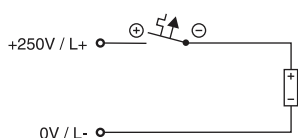
Note: not for PV string protection!

### Dimensions (mm)

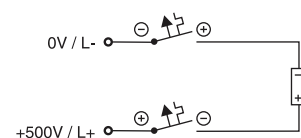
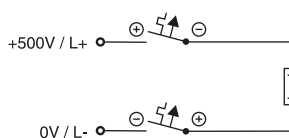
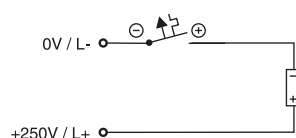


### Connection examples

Connection example at 250V=, 1-pole

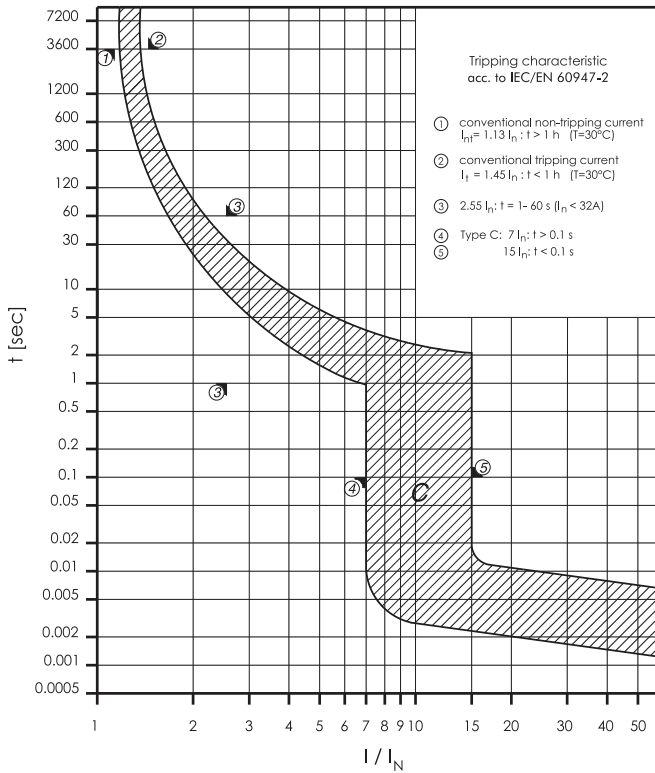


Connection example at 500V=, 2-pole



**Tripping characteristic PLS6-DC**

Type C



**Let-through Energy PLS6-DC**

Type C, 250 V d.c.,  $\tau = 5 \text{ ms}$  (acc. to IEC/EN 60947-2)

