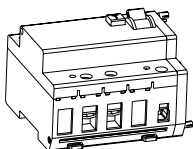
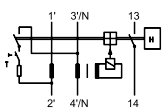


Technical Data

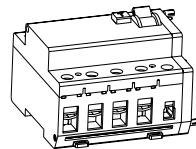
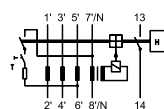
		PBHT
Electrical		
Design according to		IEC/EN 60947-2
Current test marks as printed onto the device		
Strombahnen		
Rated voltage	U_e	230/400 V AC
Limits operation voltage test circuit		
2-pole		196-264 V
4-pole, 30mA		196-264 V
4-pole		196-456 V
Rated frequency		50 Hz
Rated current	I_n	80 A, 125 A
Rated tripping current	$I_{\Delta n}$	30, 300, 500, 1000 mA
Rated non-tripping current	$I_{\Delta no}$	0.5 I_n
Sensitivity		AC and pulsating DC
Tripping		instantaneous 250 A (8/20 μ s), surge current proof
Type S		40 ms delay 6 kA, selective disconnecting function, surge current proof
Rated service short-circuit breaking capacity	I_{cn}	same as connected PLHT
Rated ultimate circuit breaking capacity	I_{cu}	same as connected PLHT
Rated fault short-circuit breaking capacity	$I_{\Delta/n}$	= I_{cu}
Rated impulse withstand voltage	U_{imp}	4 kV (1.2/50 μ s)
Endurance mechanical components		
PBHT-80		>10,000
PBHT-125		>8,000
Endurance electrical components		
PBHT-80		>1,500
PBHT-125		>1,000
Auxiliary Contact		
Utilisation category AC15		
Rated voltage	U_e	250 V AC
Rated operational current	I_e	16 A AC
Mechanical		
Frame size		45 mm
Device height		90 mm
Device width		95 mm (5.5MU)
Depth of central body		60 mm
Mounting		screwed onto PLHT 2-, 3-, 4-pole; PBHT-ASA
Degree of protection, built-in		IP40
Upper and lower terminals		lift terminals
Terminal protection		finger and hand touch safe, DGUV VS3, EN 50274
Terminal capacity		
Main conductor		2.5 - 50 mm ²
Auxiliary switch		1 - 25 mm ²
Operating temperature		-25°C to +40°C
Storage- and transport temperature		-35°C to +60°C
Resistance to climatic conditions		25-55°C/90-95% relative humidity according to IEC 60068-2

Connection diagrams

2-pole

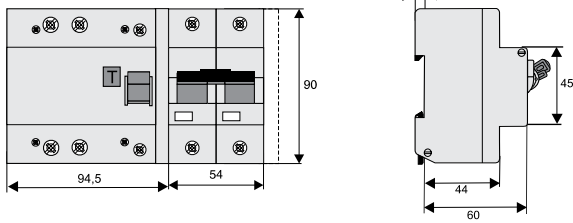


4-pole

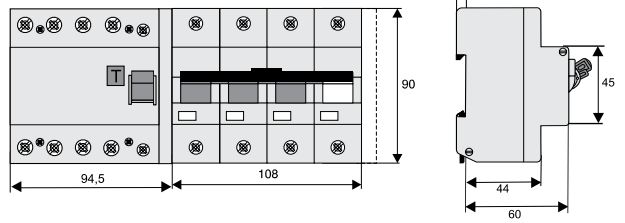


Dimensions (mm)

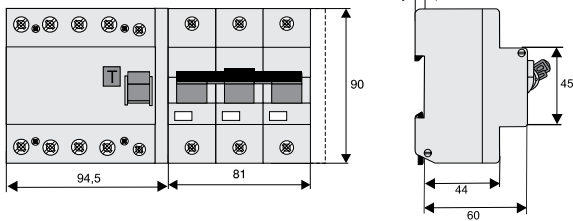
PBHT/2p + PLHT/2p



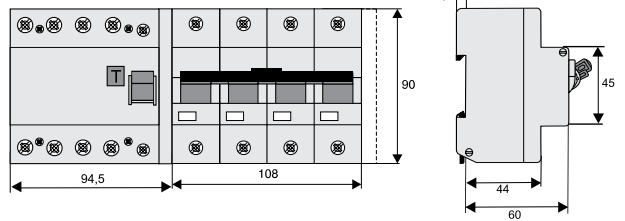
PBHT/4p + PLHT/3p+N



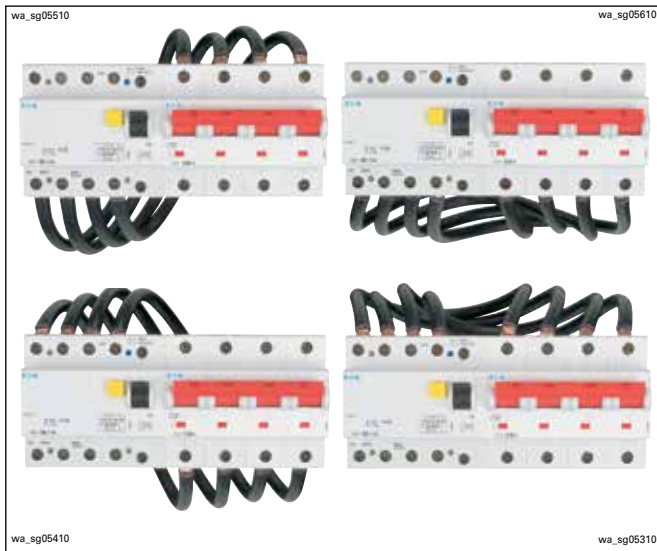
PBHT/4p + PLHT/3p



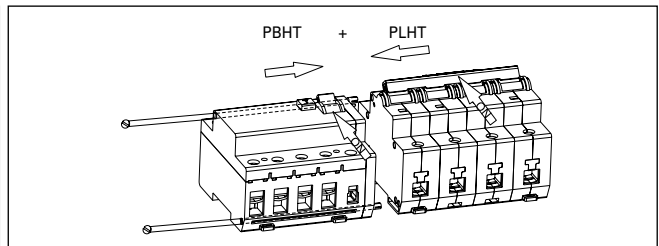
PBHT/4p + PLHT/4p



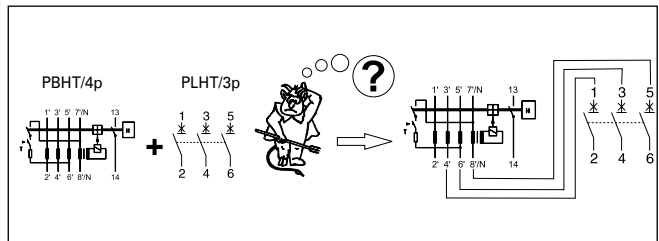
Wiring options



Mounting PBHT + PLHT

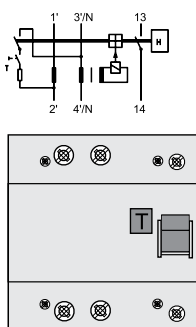


Connection PBHT/4p + PLHT/3p

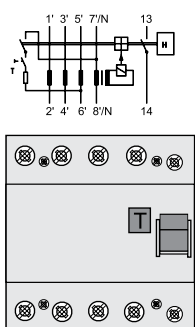


Mounting arrangement residual current protection unit - shunt trip release - miniature circuit breaker - auxiliary contact

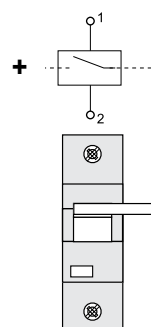
PBHT-2-pole



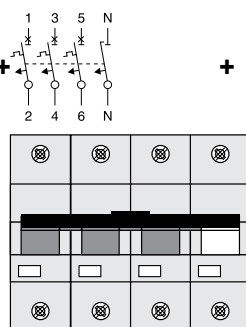
PBHT-4-pole



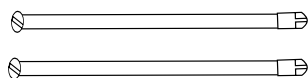
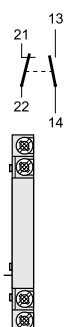
Z-PBHT-ASA



PLHT-3+N-pole



Z-LHK



Accessories for PBHT

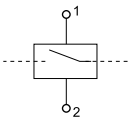
Shunt trip release Z-BHASA

- Can be mounted subsequently
- Contact position indicator red/green
- Marking labels can be fitted
- Wide operational voltage range
- Sufficient power of extra low voltage source must be ensured
PBHT-ASA/24: min. 90 VA
- Screws for mounting included PBHT => BHASA => PLHT

Technical Data

	Z-BHASA/24	Z-BHASA/230
Electrical		
Minimum pulse duration	15 ms	10 ms
Internal resistance	2 W	130 W
Duty	100%	100%
Tripping time	< 20 ms	< 20 ms
Peak withstand voltage (1.2/50 μs)	2 kV	2 kV
Endurance	>4,000 switching operations	>4,000 switching operations
AC voltage range		
Responding limit	8 V	70 V
Operational voltage range	12-60 V	110-415 V
Maximum current consumption during switch-on	1.4-7 A	3.4 A (at 230 V)
Current flow time at max. current consumption	4.0 ms	4.5 ms
DC voltage range		
Responding limit	11 V	90 V
Operational voltage range	12-60 V	110-230 V
Maximum current consumption during switch-on	1.7 A typ.	1.7 A typ.
Current flow time at max. current consumption	2 ms	4 ms
Mechanical		
Frame size	45 mm	45 mm
Device height	90 mm	90 mm
Device width	27 mm	27 mm
Mounting	quick fastening on DIN rail IEC/EN 60715	
Degree of protection, built-in	IP40	IP40
Upper and lower terminals	lift terminals	lift terminals
Terminal capacity	2.5-30 mm ²	2.5-30 mm ²
Terminal torque	4 Nm	4 Nm

Connection diagram



Dimensions (mm)

