BENDER

Measuring current transformers of the W...B series



Product description

Measuring current transformers of the W...B series are highly sensitive measuring current transformers which measure AC and DC currents and convert them into evaluable measurement signals, in combination with residual current monitors of the RCMA470, RCMA471 series.

Connection to the respective devices is via a four-wire cable.

Installation instructions

- Make sure that all live conductors are routed through the measuring current transformer.
- Do not route shielded conductors through the measuring current transformer.
- Never route a PE conductor through the measuring current transformer!

Wiring diagram



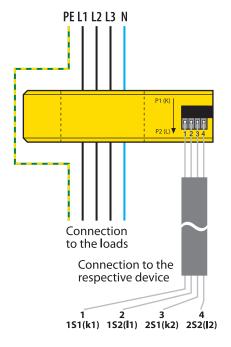
W35B on DIN rail

Device features

for AC/DC sensitive residual current monitors of the series RCMA470 (W35B, W60B) RCMA471 (W120B, W210B)

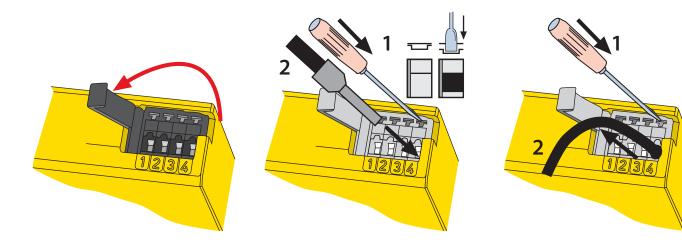
Approvals





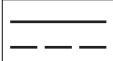
Connection the respective residual current monitor of the series: RCMA470: W35B, W60B;

RCMA470: W35B, W60B; RCMA471: W120B, W210B









Technical data

Rated insulation voltage		800 V
Rated impulse voltage / pollution deg	ree	8 kV / III
CT circuit		
Rated primary residual current		30 mA3 A
Rated continuous thermal residual cu	rent I _{cth}	40 A
Rated short-time thermal residual cur	rent I _{th} 60 x I _o	$c_{th} = 2.4 \text{ kA} / 1 \text{ s}$
Rated dynamic current I _{dyn}	$2.5 \times l_{th} = 6.0 \text{ kA} / 40$	
-		25°C ⊥70°C
Operating temperature		25 °C…+ 70 °C
Operating temperature Climatic class acc. to IEC 60721 Stationary use (IEC 60721-3-3)	3K5 (except condensation and f 2K5 (except condensation and f	formation of ice)
Operating temperature Climatic class acc. to IEC 60721 Stationary use (IEC 60721-3-3) Transport (IEC 60721-3-2)	3K5 (except condensation and f	formation of ice)
Operating temperature Climatic class acc. to IEC 60721 Stationary use (IEC 60721-3-3) Transport (IEC 60721-3-2) Long-time storage (IEC 60721-3-1)	3K5 (except condensation and f 2K5 (except condensation and f 1K5 (except condensation and f	formation of ice)
Operating temperature Climatic class acc. to IEC 60721 Stationary use (IEC 60721-3-3) Transport (IEC 60721-3-2) Long-time storage (IEC 60721-3-1) Classification of mechanical condition	3K5 (except condensation and f 2K5 (except condensation and f 1K5 (except condensation and f	formation of ice)
Environmental conditions Operating temperature Climatic class acc. to IEC 60721 Stationary use (IEC 60721-3-3) Transport (IEC 60721-3-2) Long-time storage (IEC 60721-3-1) Classification of mechanical condition Stationary use (IEC 60721-3-3) Transport (IEC 60721-3-2)	3K5 (except condensation and f 2K5 (except condensation and f 1K5 (except condensation and f	formation of ice) formation of ice) formation of ice)

Connection

Single wire $\geq 0.75 \text{ mm}^2$

Connection RCMA47 Measurin	g current transformer			
Stripping length	89 mm			
rigid / flexible / conductor sizes	0.082.5 / 0.082.5 mm ² / 2812 AWC			
Type of connection	cage clamp spring terminal			

Other

Degree of protection, internal components (IEC 60529)	IP40
Degree of protection, terminals (IEC 60529)	IP20
Screw mounting	M5 with mounting brackets
Flammability class	UL94V-0
Standards	IEC 60044-1
Instruction leaflet	BP409016
Approval	UL under consideration, GOST

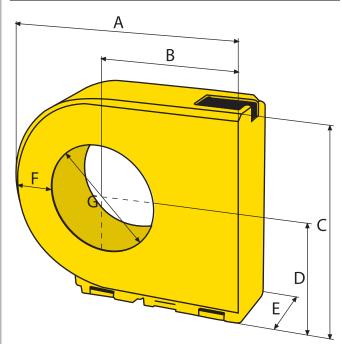
Ordering information

Inside	I	Art. No.	
diameter	DIN rail	Mounting bracket	
35 mm	×	×	B 9808 0013
60 mm	×	×	B 9808 0021
120 mm		×	B 9808 0031
210 mm		×	B 9808 0037
	diameter 35 mm 60 mm 120 mm	diameter DIN rail 35 mm × 60 mm × 120 mm	diameter DIN rail Mounting bracket 35 mm × × 60 mm × × 120 mm ×

Accessories

Туре	Width	Art. No.
Snap-on mounting for W35B	43.5 mm	B 9808 0501
Snap-on mounting for W60B	50 mm	B 9808 0502

Dimension diagram



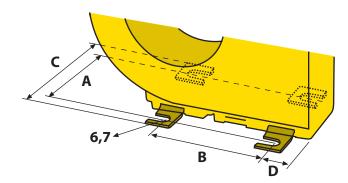
Dimensions

0...10 m

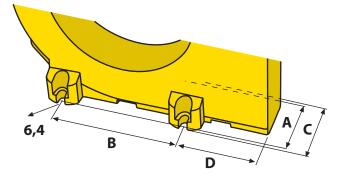
Туре	A	В	C	D	E	F	G	Weight
W35B	99.5	62	79.2	41.7	30	20	ø 35	0.19 kg
W60B	135	79	116.4	60.4	37	24	ø 60	0.31 kg
W120B	210	116.5	191.5	98	37	33.5	ø 120	0.805 kg
W210B	323	173	304.5	154.5	45	45	ø 210	1.68 kg

Dimensions in mm

Screw mounting with mounting brackets: W35B, W60B



Screw mounting: W120B, W210B

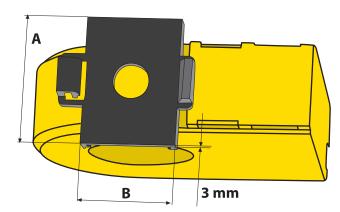


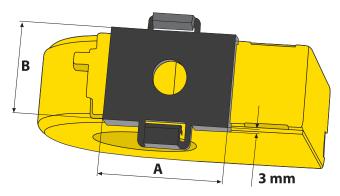
Dimensions screw mounting

Туре	A	В	C	D
W35B (fixing with two mounting brackets, diagonally)	47	49.8	63	12.1
W60B (fixing with four mounting brackets)	54	66	70	17.7
W120B screw mounting	51	103	60.6	65
W210B screw mounting	59	180	68.6	83

Dimensions in mm

Snap-on mounting on DIN rail, for vertical or horizontal mounting: W35B, W60B





Dimensions snap-on mounting

Туре	Α	В	
W35B	43.5	32	
W60B	50	39	

Dimensions in mm

Selection list

RCMA471	RCMA470	Туре
	×	W35B
	×	W60B
×		W120B
×		W210B
×		W120B