

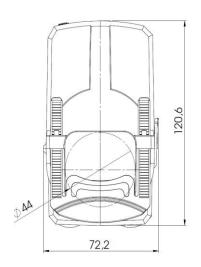
## **MBS AG**

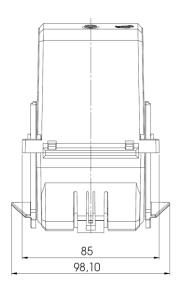


## **KBR 44**

## **Split-core current transformer**







#### **Dimensions:**

Round conductor: 44 mm Transformer width: 72.2 mm Transformer height: 120.6 mm

Transformer depth incl. fixing clasps: 98.1 mm

#### **General technical specifications:**

Thermal nominal continuous rated current  $I_{cth}$ : 1.2 x  $I_N$  Thermal nominal short-time current  $I_{th}$ : 60 x  $I_N$ , 1 sec.

Maximum operating voltage  $U_m$ : 0.72 kV Isolation test voltage: 3 kV,  $U_{eff}$ , 50 Hz, 1 min.

Rated frequency: 50 Hz

Isolation class: E

Applicable technical standards: DIN EN 60044/1

VDE 0414 Teil 1

#### Further information about our new split-core current transformer KBR 44:

- Split-core current transformers are mainly used for an easy fitment and subsequent assembly into an already existing installation, without separating the primary conductor.
- The compact split-core current transformer KBR 44 has been developed to have easy access in already existing installations.
- Due to the "click"-system and the fixing-clasps even a one-hand mounting is possible.
- The KBR 44 with secondary 1A will be delivered with 2.5 m connection cable 2x0.75 mm² (color coded; S1 = brown; S2 = blue). Other lengths of the connection cables are possible on request. The secondary 5A version will be delivered with 0.5m connection cable 2x1.5 mm².
- For the use as a current sensor the KBR 44 is optionally deliverable with a voltage output of 0 333 mV (min. burden resistance ≥ 1 kΩ).
  - Moreover the KBR 44 is deliverable as a measuring transducer with a measuring output of 4...20 mA DC.
- Operating temperature: -5°C < T < +50°C</li>
- Storage temperature: -25°C < T < +70°C



# **MBS AG**



#### **Order list**

Secondary current		5A	1A	Output signal	0333 mV AC	420 mA DC
Primary current	Burden [ VA ]	Accuracy class	Accuracy class	Primary current	Accuracy class	Accuracy class
[ A ]		1FS5	1FS5	[ A ]	1	1
		BestNr.	BestNr.		BestNr.	BestNr.
250	1.5	44-5001		250	44-1001	44-2001
	2.5		44-0001			
300	2.5	44-5006	44-0006	300	44-1006	44-2006
400	5	44-5011	44-0011	400	44-1011	44-2011
500	5	44-5016	44-0016	500	44-1016	44-2016
600	5	44-5021	44-0021	600	44-1021	44-2021
750	5	44-5026	44-0026	750	44-1026	44-2026
800	5	44-5031	44-0031	800	44-1031	44-2031
1000	5	44-5036	44-0036	1000	44-1036	44-2036

### Technical characteristics for the KBR with output signal 4...20 mA:

- 2-wire connection, auxiliary power via output circuit
- Auxiliary power: 24 V DC ± 15 %, P<sub>V</sub> = max. 1 VA
- Load-independent DC current: Live-zero, 4...20 mA
- External resistance: max. 300 Ω
- Current limit under overload: < 30 mA
- Residual ripple of the output current: ≤ 1 % p.p.
- Response time: < 300 ms

### Wiring diagram of the KBR 44 (4...20 mA):

