

Current transformers with converter

TC 020 / TC 420

Narrow-profile current transformer with a built-in converter, with an output of 0...20 mA / 4...20 mA

**Description****TC 020 Series**

- Self-powered: does not need an auxiliary power supply.
- Primary current: from 50 to 1500 A ac, depending on the type
- Secondary current: 0..20 mA
- Internal diameter: from 28 to 44 mm, depending on the type
- Busbar dimensions: from 40 x 10 mm to 60 x 12 mm

TC 420 series

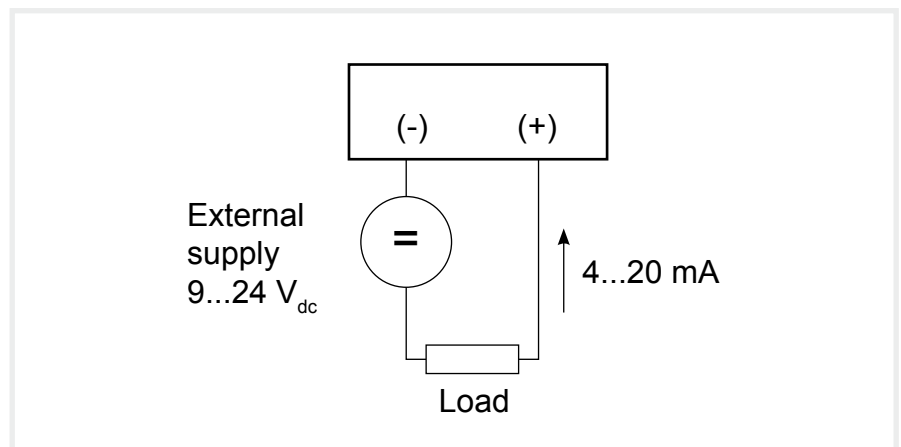
- Needs an output power supply of 7.5...36 V dc
- Primary current: from 5 to 1500 A ac, depending on the type
- Secondary current: 4..20 mA
- Internal diameter: from 20 to 44 mm, depending on the type
- Busbar dimensions: from 25 x 5 mm to 60 x 12 mm

Application

Used in power lines to obtain a current proportional to the primary current rated at 0..20 mA / 4...20 mA in the secondary

Features

Frequency	50 / 60 Hz
Isolation voltage	3 kV ac
Thermal short-circuit current, I_{th}	$60 I_n$
Dynamic current, I_{dyn}	$2.5 I_{th}$
Highest current in the material	0.72 kV ac
Thermal class	B (130 °C)
Type of encapsulation	VO self-extinguishing plastic
Safety factor	$F_s < 5$
Secondary sealable terminals	Yes
Standards	
IEC 44-1, B5 2627	

Connection

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References

Type	TC 420			TC 020		
	TC 5,420	TC 6,420	TC 8,420	TC 6 020A	TC 8,020A	
inner Ø (mm)	20	28	44	28	44	
Busbar (mm)	25 x 5	40 x 10	60 x 12	40 x 10	60 x 12	
Dimensions (mm)						
	a	70	80,5	102	80,5	102
	b	58	64	84,5	64	84,5
	c	32	44	50	44	50
A	Output 4...20 mA, external power supply 7.5...36 Vdc			Output 0...20 mA		
	Code			Code		
5	[1] M72112					
10	[1] M72113					
20	[1] M72114					
50		[1] M72131		[1] M72031		
100		[1] M72132		[1] M72032		
200		[1] M72134		[1] M72034		
300		[1] M72136		[1] M72036		
500			[1] M72151		[1] M72051	
1 000			[1] M72152		[1] M72052	
1 500			[1] M72153		[1] M72053	

For greater currents, use: transformer + converter

Dimensions
