





## Solutions for low-voltage current measurement

The installation of current transformers allows the different measuring devices to provide reliable and traceable data on the evolution of consumption and production processes in electrical installations.



### Designed in collaboration with installers

In the continuous process of improvement of our products, and thanks to the accumulated experience of our installers, we have designed this new range of current transformers to be installed quickly, easily and robustly. Meeting the most demanding expectations of the current market



## Solutions for every type of installation

### **TD** transformers

#### Easier to install

Thanks to our partnership with installers, our TD current transformers have a new and improved design to cover any need that may arise during their installation. The different models take into account aspects involving both their easy installation and their power optimisation when being connected to any electronic measurement device.

### TQ and TQR transformers

### Installation without interruption

The split-core TQ and TQR transformers have been designed to be connected to installations already in operation. A simple, two-step process makes for easy installation that saves on indirect costs, avoiding to disconnect the supply before start-up.





### TD. Narrow section transformers

### Easier to install







**TD4** from 40 to 200 A



**TD5** from 50 to 250 A



**TD6** from 150 to 800 A



**TD8** from 300 to 1600 A



New tie fastening system built in at the transformer itself for an easy, fast and secure installation.



## Encapsulation

The inside of the transformers can be encapsulated for installation in very humid or saline environments.



Ideal for installation with any type of device, especially for low-energy electronic equipment.



Best measuring accuracy guaranteed when connected to any type of receiver.

## **□** Versatile

Multiple formats for connecting the transformer.

- DIN rail: Two-way fastening with an accessory for connecting to the DIN rail, whether connecting vertically or horizontally.
- Panel: The transformers have individual parts for installation at the bottom of a panel.
- Busbar/Cable: Enclosure with different window options for installing directly on a busbar or cable, using insulated-tip screws or ties, for secure fastening.











### Accessories for TD current transformers

Accessory for installing TD transformers to DIN rail. We can bidirectionally fix the device to a DIN rail with just this accessory, as it provides the possibility of fixing it either horizontally or vertically.

#### References

Description Code DIN-FIX 50x84 M75103. DIN-FIX 50x50 M75102.



### Sealable

It has optional accessories for sealing the terminals and the transformer label.



Place the anti-fraud laps.



Once the terminal cover has been placed, the transformer sealed.



Connect the secondary cables.



Terminal cover disables access to fastening screws and product label.



Sealed device.

### Test report online

Download the test reports for Circutor's TD transformers free of charge from:

http://testreport.circutor.com







### Technical specifications

Electrical characteristics	Frequency	50 / 60 Hz 3 kV				
	Insulation voltage					
	Thermal short-circuit current, $I_{ m th}$	60 /n				
	Dynamic current, I <sub>dyn</sub>	2.5 /th				
	Accuracy class	See table				
	Highest voltage for the material	0.72 kV <sub>ca/cc</sub>				
Environmental	Operating temperature	Thermal class B (130° C)				
characteristics	Enclosure	UL94 self-extinguishing plastic				
	Safety factor	FS 5				
	Sealable secondary terminals	Yes				
	Protection Degree	IP20 secondary terminals				
	Attachment to DIN rail	Yes				
Standards	IEC 61869-1, IEC 61869-2, UL94					

#### Referencias

Tpe

Dimension (mm) a		С															
c b	- а -	80 x 50 x 48		84 x 58 x 53			91 x 66 x 53				109 x 85 x 59						
Diameter Ø (mm)	r			21				21				30				44	
Busbar (ı	sbar (mm) -		15 x 15 20 x 10 25 x 5		20 x 25 30 x 15 40 x 10			50 x 30 60 x 12 12 x 45									
	VA	(	Class		Code		Class		Code		Class		Code		Class		Code
A		0.5	1	3		0.5	1	3		0.5	1	3		0,5	1	3	
40/5A		-	0.5	1.25	M75011.												
50/5A		-	1	1.5	M75012.	-	0.7	3	M75022.								
60/5A		-	1.25	2.5	M75013.	-	1.25	3	M75023.								
75/5A		-	1.5	3.75	M75014.	-	1.5	3.5	M75024.								
100/5A		1.5	2.5	5	M75015.	1.5	2.5	3.75	M75025.								
125/5A		2.5	3.75	5	M75016.	1.5	2.5	3.75	M75026.								
150/5A		3.75	5	5	M75017.	1.5	2.5	3.7 5	M75027.	1	2.5	3.5	M75047.				
200/5A		5	7.5	7.5	M75018.	2.5	3.75	5	M75028.	1.5	3.5	5	M75048.				
250/5A						2.5	3.75	5	M75029.	2.5	5	5	M75049.				
300/5A										2.5	5	5	M7504A.	2.5	3.5	3.5	M7506A.
400/5A										2.5	5	5	M7504B.	2.5	3.5	5	M7506B.
500/5A										5	7.5	7.5	M7504C.	2.5	5	5	M7506C.
600/5A										5	7.5	7.5	M7504D.	2.5	5	5	M7506D.
750/5A										5	7.5	10	M7504E.	2.5	5	5	M7506E.
800/5A										5	7.5	10	M7504F.	5	7.5	7.5	M7506F.
1000/5														5	7.5	10	M7506G.
1200/5														5	7.5	10	M7506H.
1250/5														7.5	10	10	M7506J.
1500/5														7.5	10	15	M7506K.
1600/5														7.5	10	15	M7506L.



#### Codification table

М	7	5	0	Χ	Χ	0	0	Х
Inte	rnal	code						$\uparrow$
Sec	onda	гу				Stan	dard /5 A	0
						/1 A		1
					-	/ 250	mΑ	Α

### Accessories for TD current transformers

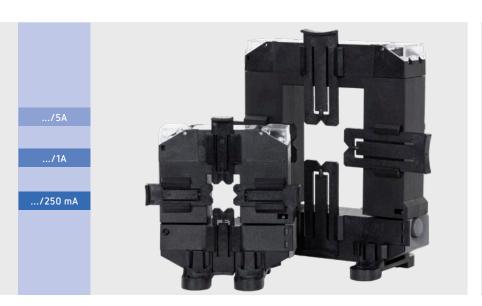
Accessories for sealing TD series current transformers. The TD-Cover kit consists of a transparent cover that is placed at the top of the transformer, disabling access to the secondary connection terminals, and it can be sealed to avoid any manipulation. It also includes two caps, common to any TD series model, to prevent access to the secondary terminals that remain unused once the measurement devices are connected.

### References

Description	Code
TD4-COVER	M75111.
TD5-COVER	M75121.
TD6-COVER	M75141.
TD8-COVER	M75161.



### Installation without interruption





Easy opening button



**TQ-6** from 100 to 400 A



**TQ-8** from 300 to 1000 A



Simple installation with instant opening using the push button, avoiding the use of removable parts.







## **□** Versatile

Installation to DIN rail or directly on conductors. Feature non-metallic parts to ensure fastening in busbars with plates.







## Lightweight and compact

New design that reduces its weight and size for easier installation in any electrical panel.





## **Accurate**

Guarantee the best measuring accuracy when connected to any type of receiver.



### Low losses

Ideal for installation with any type of device, especially for low-energy electronic equipment.



### Sealable

Prevents tampering with the electrical connections by sealing the terminal block of the current transformer.

#### Technical specifications

Electrical	Frequency	50 / 60 Hz			
characteristics	Insulation voltage	3 kV			
	Thermal short- circuit current, Ith	60 In			
	Dynamic current, I <sub>dyn</sub>	2.5 /th			
	Accuracy class	See table			
	Highest voltage for the material	0.72 kVca/cc			
Environmental	Operating temperature	Thermal class B (130° C)			
characteristics	Enclosure	Self-extinguishing V0 plastic			
	Safety factor	FS 10			
	Sealable secondary terminals	Yes			
	Protection Degree	IP20 secondary terminals (opt. IP 54)			
	Attachment to DIN rail	Yes			
Standards	UNE 21031, IEC 61869-2				

#### References

Туре

Busbar (mm)			20 x 31	0 mm		60 x 80 mm				
Dimensions (mm)										
cb a			a 9 b 8 c 2	0	a 141 b 120 c 28					
	VA	Class				Class		C- 4-		
A	0.5	1	3	Code	0.5	1	3	Code		
100/5		1	2	M74023.						
150/5		1	2	M74025.						
200/5	0.5	1	2	M74026.						
250/5	0.5	1	2	M74027.						
300/5	0.5	1	2	M74028.	1	2	4	M74035.		
400/5	1	2	4	M7402A.	1.5	2	4	M74037.		
500/5					3	4	8	M74039.		
600/5					3	4	8	M7403B.		
700/5					3	4	8	M7403D.		
750/5					5	8	16	M7403E.		
800/5					5	8	16	M7403F.		
1000/5					5	8	16	M7403I.		

TQ-6

TQ-8

## TQR. Split-core current transformers

### Installation without interruption



TQR-8 from 400 to 2000 A

# Push-button opening

Simple installation with instant opening using the push button, avoiding the use of removable parts.





# Attachment using ties

New tie fastening system for an easy, fast and secure installation.









## Adjustable

Designed with a circular cross-section to fully adapt to the wiring cross-section, improving the measurement accuracy.



### Low losses

Ideal for installation with any type of device, especially for low-energy electronic equipment.

### Accurate

Guarantee the best measuring accuracy when connected to any type of receiver.

## High IP rating

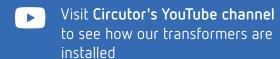
Transformers with high IP65 protection, thanks to a sealing joint that keeps particles out of the connection terminals.

### Technical specifications

Electrical	Frequency	50 / 60 Hz				
characteristics	Insulation voltage	3 kV				
	Thermal short- circuit current, Ith	60 In				
	Dynamic current, Idyn	2.5 /th				
	Accuracy class	See table				
	Highest voltage for the material	0.72 kVca/cc				
Environmental	Operating temperature	Thermal class B (130° C)				
characteristics	Enclosure	VO UL94 self- extinguishing plastic				
	Safety factor	FS 10				
	Protection Degree	IP 40/IP 65 (with protection gasket)				
Standards	IEC 61869-2					

#### Referencias

		TQR-8	
		80 mm	
		<b>a</b> 185 <b>b</b> 152 <b>c</b> 33	
	Cla		
0.5	1	3	– Code
1	1.5	3	M76037.
1	1.5	3	M76039.
1.5	2	4	M7603B.
2	4	8	M7603D.
3	7	15	M7603F.
5	8	16	M7603J.
6	10	20	M7603L.
6	10	20	M7603M.
8	15	25	M7603N.
	0.5 1 1 1.5 2 3 5 6	0.5         1           1         1.5           1.5         2           2         4           3         7           5         8           6         10           6         10	80 mm  a 185 b 152 c 33  Class  0.5 1 3 1 1.5 3 1 1.5 3 1.5 2 4 2 4 8 3 7 15 5 8 16 6 10 20 6 10 20





### Codification table

Cod	9		ernal c	ode					
М	7	Х	Χ	Χ	Х	0	0	Χ	Χ
								1	1
Secondary			Sta	ndard	(/ 5		0	_	
			/	1 A			1	-1	
			/	250 m	A (*)		Α		
			/	333 m	V (*)			٧	
			-						0
Lert	ificat	е	Ind	ividua	l (**)				1

<sup>(\*)</sup> For TQ and TRQ only, consult models. (\*\*) A certificate is attached for every transformer.



Vial Sant Jordi, s/n 08232 Viladecavalls Barcelona (Spain) t. +34. 93 745 29 00 info@circutor.com