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# Revalco

measuring instruments



# CURRENT TRANSFORMERS

## MINI SERIES

## SMALL SERIES

TYPE	TAM 1D	TAM 3D	TAM 4D	TAM 5D	TAM 6	TCS 08	TCS 072	TCS M15	TCS 13	TCS 16	TCS 18	TCS 25	TCS 26	TCS 32	TCS 33	TCS 64	TCS 647	TCS 126	TCS 200	TCS 65V	TCS 126V	
	Passing primary					Central bolt Mb	Capitol M12	2 module DIN	Passing primary													
APPLICATION																						
CENTRAL SECTION	21	23	25 x 25 30 x 20 40 x 10	50 x 12 63x20	50x23 63x20	15 x 5	15	13	11	18	25	min 25x5 max 25x6,5	min 30x5 max 2x63x5	min 29x5 max 2x32x5	min 30x30 max 3x50x5	min 120x10 max 3x120x10	min 120x10 max 3x120x10	min 120x10 max 3x120x10	min 120x10 max 3x120x10	min 2x63x5 max 2x80x5	min 2x63x5 max 2x80x5	
																						Burden (VA)
Primary current (A)	0.5	1	3	0.5	1	0.5	1	0.5	1	3	0.5	1	0.5	1	0.5	1	0.5	1	0.5	1	0.5	1
40	2					3		2	2													
50	2					4		2	2													
60	2					5		3	3													
75								3	3													
80	3					5		3	3													
100	3	2				5		3	3													
120						5		5	5													
125						5		5	5													
150	4	3				5		5	5													
200	4	3				5		5	5													
250	3	2																				
300		2	6																			
400		3	10																			
500		10	10																			
600		10	6																			
800		10	10																			
1000		10	10																			
1200																						
1250																						
1500																						
2000																						
2500																						
3000																						
4000																						
5000																						
6000																						
height	65	65	81,5	81,5	106	90,5	90,5	85	58	58	90,5	90,5	72	90,5	90,5	116	116	207	290	119	200	
width	52	52	70	70	101	56	56	35,5	34,5	34,5	56	56	44	56	56	87	87	172	272	70	130	
depth	27	27	44	44	44	53,3	53,3	58	53,3	53,3	53,3	53,3	53,3	53,3	53,3	53,3	53,3	49	49	53,3	49	
Interaxes min.								35	27	27	45	45	35	45	45	70 - 50	70 - 50	20	20	45	75	
SEE PAGE	254	254	255	255	256	257	257	258	258	259	259	260	260	261	261	262	262	263	263	264	264	264

# CURRENT TRANSFORMERS

## STANDARD SERIES

TYPE	TAR	TAR	TAR	TAR	TAR	TAR	TAR	TAR	TAR	TAR	TAR	TAR	TAR	TAR	TAR	TAR	
	PD E1	PD E2	PD 1	PD 2	0	1D	3D	4D	4D3	5	6	8	12	8V	12V		
Passing primary																	
APPLICATION	Wound primary	Wound primary	Wound primary	Wound primary													
	Wound primary	Wound primary	Wound primary	Wound primary													
	15 x 3 reciprocating				20 x 3	20	20 x 10 30 x 10	25 x 20 30 x 25 - 40 x 10	30 x 10	30 x 30 40 x 25 - 50 x 20	50 x 20 60 x 20	60 x 30 80 x 30	90x50 100x50 125x50				
					15	20	21	32	25	30	50	2 x 30	2 x 50	2 x 35	3 x 35		
							20 x 10	20 x 25 30 x 20 40 x 10	30 x 10	30 x 10							
CENTRAL SECTION																	
Primary current (A)	Burden (VA)	Burden (VA)	Burden (VA)	Burden (VA)	Burden (VA)	Burden (VA)	Burden (VA)	Burden (VA)	Burden (VA)	Burden (VA)	Burden (VA)	Burden (VA)	Burden (VA)	Burden (VA)	Burden (VA)	Burden (VA)	
	Class	Class	Class	Class	Class	Class	Class	Class	Class	Class	Class	Class	Class	Class	Class	Class	
1	1	1	1	1	3	0.5	1	0.25	0.2	0.5	1	0.25	0.5	1	0.25	0.5	0.5
3	3	3	3	3	3	0.5	1	0.25	0.2	0.5	1	0.25	0.5	1	0.25	0.5	0.5
5	6	6	6	6													
10	6	6	6	6													
15	6	6	6	6													
20	6	6	6	6													
25	6	6	6	6													
30	6	6	6	6													
40	6	6	6	6													
50	3	3	3	3	2	3	2										
60	3	3	3	3	2	3	2										
80	3	3	3	3	3	3	3										
100	3	3	3	3	3	3	3										
150	3	3	3	3	3	3	3										
200	6	6	6	6	4	4	4										
250	6	6	6	6	5	5	5										
300	6	6	6	6	5	5	5										
400	6	6	6	6	6	6	6										
500	6	6	6	6	6	6	6										
600	6	6	6	6	6	6	6										
800	6	6	6	6	6	6	6										
1000	6	6	6	6	10	10	10										
1200	6	6	6	6	10	10	10										
1500	6	6	6	6	20	20	20										
2000	6	6	6	6													
2500	6	6	6	6													
3000	6	6	6	6													
4000	6	6	6	6													
DIMENSIONS																	
height	75	75	75	75	67	75	75	87	87	100	110	120	175	119	165		
width	58	58	58	58	55	58	58	75	75	85	105	125	180	109	109		
depth	44	44	44	44	35	44	44	44	44	45	61	61.5	68.5	41	41		
SEE PAGE	265	265	266	266	267	267	268	268	269	269	270	270	271	271	272		

**APPLICATION**

The CT makes it possible to measure high current values, and indicate, these using instruments of much lower ratings. Owing to the high costs of the cable, we recommend the use of a CT for current measurement above 40A (unless otherwise specified.)

**THERMIC CURRENT ( $I_{th}$ )**

Is the highest primary current (effective value) that the CT can support for 1 second, without damage, owing to excessive overloads, with secondary short circuited.

**DYNAMIC CURRENT ( $I_{dyn}$ )**

Is the highest primary current (peak value) that the CT can support for 1 second, without damage, owing to electromagnetic efforts, with secondary short circuited.

**HIGHEST VOLTAGE LIMIT RANGE**

Is the highest voltage (effective value) that the CT can support.

**TEST VOLTAGE**

Is the voltage that the CT can support (at industrial frequency, for the insulation reference) for 1 minute between primary and secondary.

**SATURATION FACTOR( $F_s$ ) - SAFETY FACTOR( $n$ )**

Is the ratio between the primary current value that causes the magnetic core saturation and the primary nominal current value. The lower is the "n" value, better the instrument is protected.

**RATED BURDEN OF COPPER WIRES BETWEEN INSTRUMENT AND CT**

**Secondary of 5A**

Section of cable mm <sup>2</sup>	Power (two poles) VA					
	Distance					
	1 m	2 m	4 m	6 m	8 m	10 m
1,5	0,58	1,15	2,31	3,46	4,62	5,77
2,5	0,36	0,71	1,43	2,14	2,86	3,57
4	0,22	0,45	0,89	1,34	1,79	2,24
6	0,15	0,30	0,60	0,89	1,19	1,49
10	0,09	0,18	0,36	0,54	0,71	0,89

**Secondary of 1A**

Section of cable mm <sup>2</sup>	Power (two poles) VA					
	Distance					
	10 m	20 m	40 m	60 m	80 m	100 m
1	0,36	0,71	1,43	2,14	2,85	3,57
1,5	0,23	0,46	0,92	1,39	1,85	2,31
2,5	0,14	0,29	0,57	0,86	1,14	1,43
4	0,09	0,18	0,36	0,54	0,71	0,89
6	0,06	0,12	0,24	0,36	0,48	0,60
10	0,04	0,07	0,14	0,21	0,29	0,36

**LOAD ON COPPER BARS**

according DIN 43670 and 43671 standards

Bar dimension mm	Nominal current ( $I_n$ ) A		
	1 bar	2 bars	3 bars
20x5	325	560	
20x10	427	925	1180
30x5	379	672	896
30x10	573	1060	1480
40x5	482	836	1090
40x10	715	1290	1770
50x10	852	1510	2040
60x10	985	1720	2300
80x10	1240	2110	2790
100x10	1490	2480	3260

**ACCURACY CLASS**

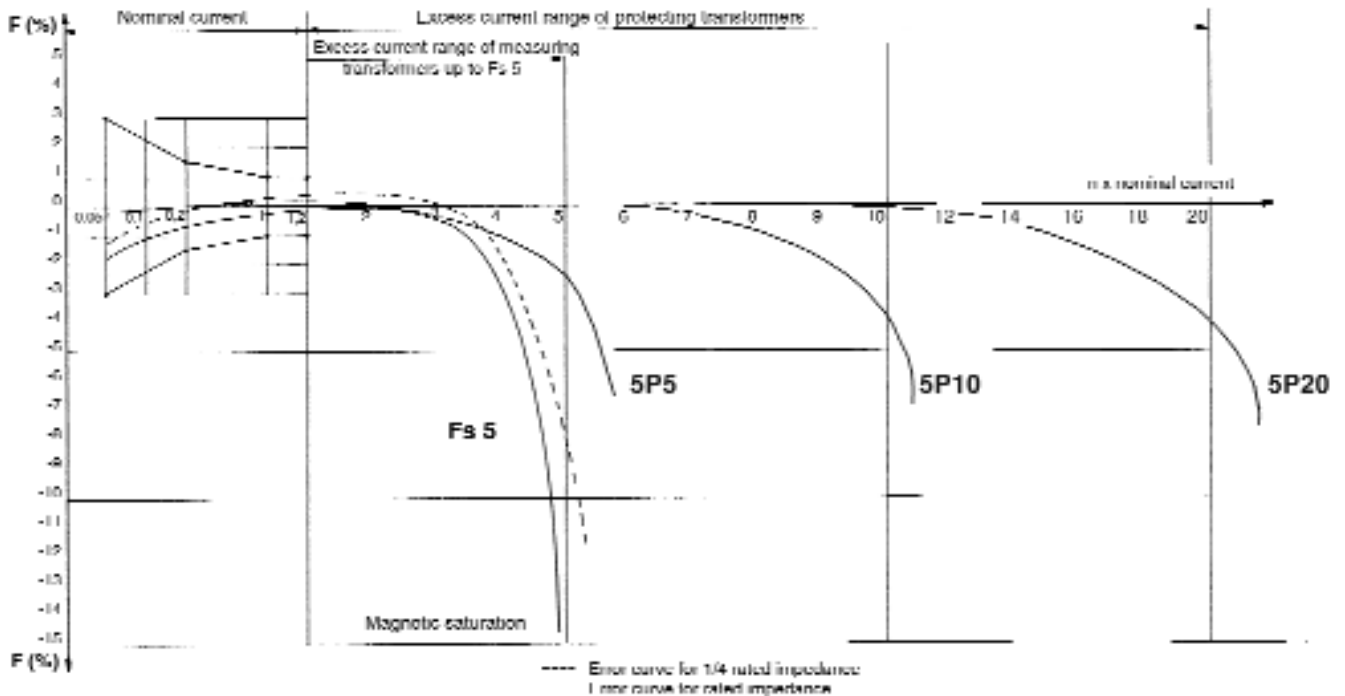
- Accuracy class 0,5 for kWh-meters
- Accuracy class 1 for measurement and non tariff kWh-meters
- Accuracy class 3 for relays and protection

The current and the angle errors according IEC 185, VDE-0414 and UNE-21028 standards, are as follows:

Class	Ratio error limits in %			
	0,05 $I_n$	0,2 $I_n$	$I_n$	1,2 $I_n$
0,5	± 1	± 0,75	± 0,5	± 0,5
1	± 2	± 1,5	± 1	± 1
3	from 0,5 $I_n$ to 1,2 $I_n$ = ± 3			

Class	Angle error limits in %			
	0,05 $I_n$	0,2 $I_n$	$I_n$	1,2 $I_n$
0,5	± 1,8	± 1,35	± 0,9	± 0,9
1	± 3,6	± 2,7	± 1,8	± 1,8
3	no prescription			

**ERRORS CURVE**



- Case in ABS -V0 resin
- Secondary current: 5A standard (other secondary rating on request)
- Maximum service voltage for insulation: 1,2 kV (0,72 kV for mini series)
- Testing voltage: 6 kV at 50 Hz for 1 minute (3 kV for mini series)
- Nominal thermic short circuit current: ( $I_{th}$ ): 60 IpN for 1 second (40 IpN for types TARPDP / TARPDE)
- Nominal dynamic short circuit current: ( $I_{din}$ ): 2,5  $I_{th}$  for 1 second
- Permanent overloading 120% IpN
- Safety factor(Fs): from  $\leq 2$  to  $\leq 10$  following the types and the range
- Normal functioning frequency 50/60 Hz
- Construction according to the CEI 38-1, IEC 185, VDE 0414, UNI 21028
- Insulation in air, Class E (IEC 185)
- Terminals: primary P1 - P2 (K - L)  
secondary s1 - s2 (k - l)  
P1 (K) primary winding input  
P2 (L) primary winding output  
s1 (k) secondary winding input  
s2 (l) secondary winding output  
For double ratio on secondary: s1 - s2 = low value  
s1 - s3 = high value

Material: Brass (CuZn37).

The screws M4x6 have: torsion value= 1,9 Nm, traction value = 440 N/mm<sup>2</sup> and elasticity limit = 340 N/mm<sup>2</sup>

- Degree of protection: IP30
- Conditions when used:  
Ambient temperature -20°C ÷ +40°C, for types TARPDP1 and TCS33; -20°C ÷ +50°C for all other types  
Maximum temperature on the bars 70°C, Storage temperature -40°C ÷ +80°C, Relative humidity 80%



- During the installation make sure of the exact input direction (P1 - K) and output (P2 - L) of the primary cable.
- In the case of the types with primary and secondary cables on terminals, do not invert the connection of the primary cable with the secondary one.
- If is necessary to disconnect the measuring instruments from the CT while operating it is necessary to make a short circuit between the two terminals of the secondary on the CT.
- It is recommended to ground the CTs

#### ALTERNATIVE OPTIONS

- Secondary current 1A
- Tropicalisation
- Internal or calibration certifications
- Other ratios and/or performances
- Transformers with class 0,2 - 0,2S - 0,5S

#### HOW THE DIAMETER OF A CABLE IS CALCULATED

In order to calculate the diameter of a 95 mm<sup>2</sup>, it is necessary to refer to the following formule:

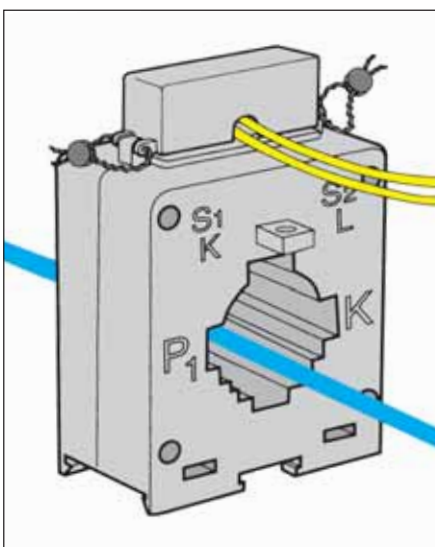
Section =  $r \times r \times 3,14$  that is  $r^2 \times 3,14$  from which  $r = \sqrt{\text{section} / 3,14}$   $r = \sqrt{95 / 3,14} = \sqrt{30,25} = 5,5$  mm and therefore the radius is 5,5 mm

Diameter =  $r + r$  and therefore Diameter 5,5 + 5,5 mm = 11 mm

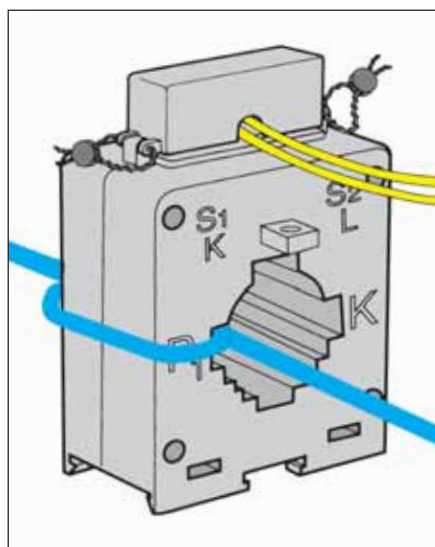
(diameter of the only leg to which is added the diameter of the insulating material, Ø total diameter of about 20 mm)

- By looping the cable through the current transformers, the primary current is halved, without effecting the performance or class.

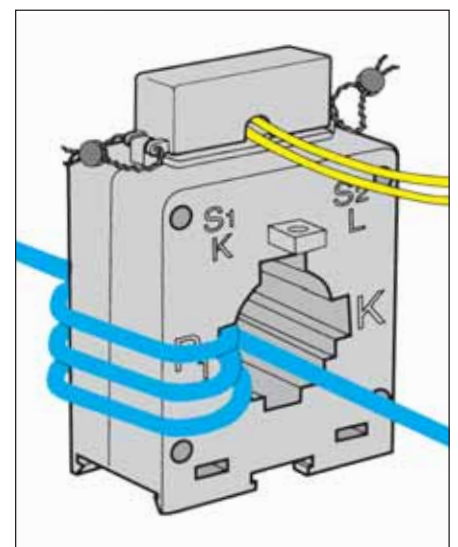
EXAMPLE :



TAR 4D 200/5A normal



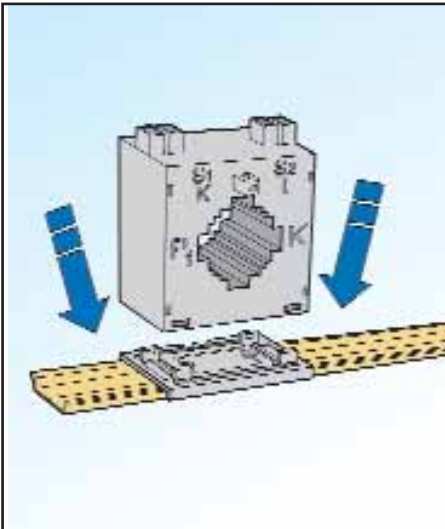
becomes 100/5A with 2 loops



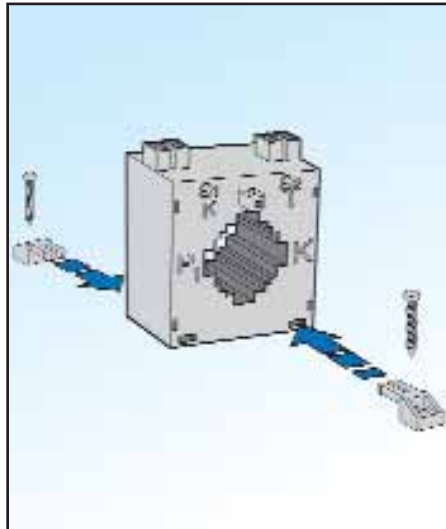
becomes 50/5A with 4 loops

FIXING SYSTEM - MINI SERIES

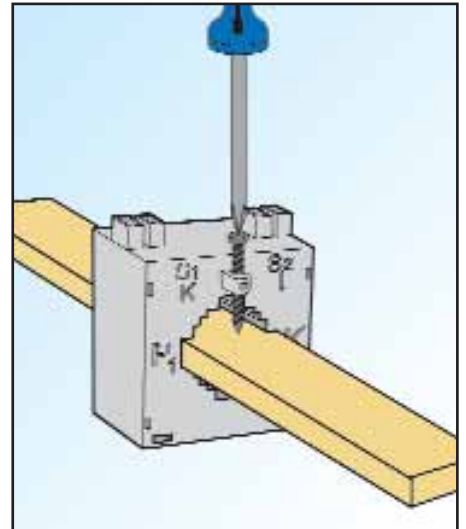
ON DIN RAIL



BASE MOUNTED WITH FEET

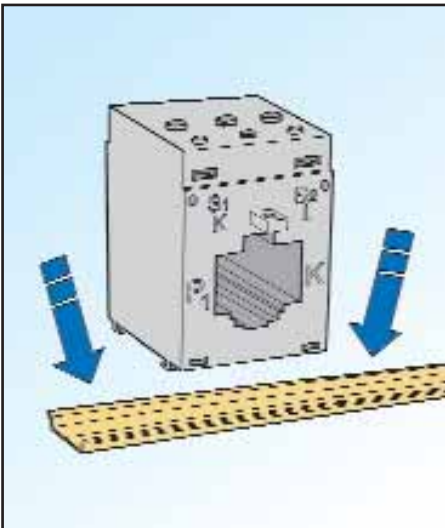


TO CABLE OR BUS BAR

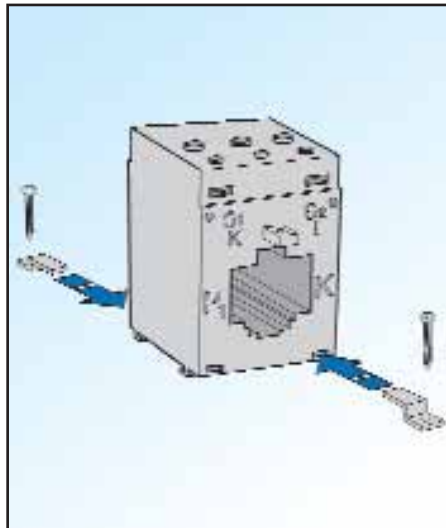


FIXING SYSTEM - SMALL SERIES

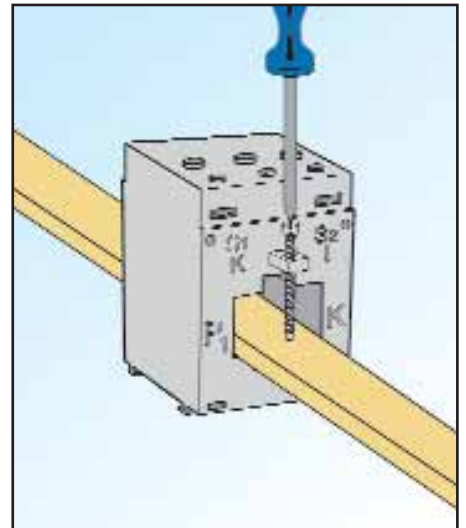
ON DIN RAIL



BASE MOUNTED WITH FEET

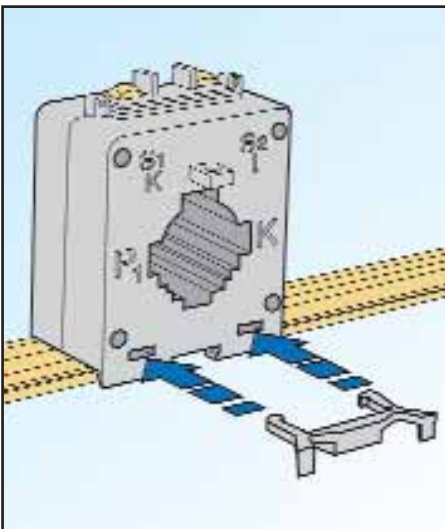


TO CABLE OR BUS BAR

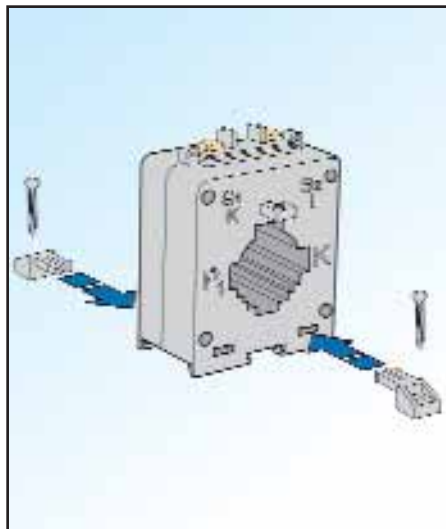


FIXING SYSTEM - STANDARD SERIES

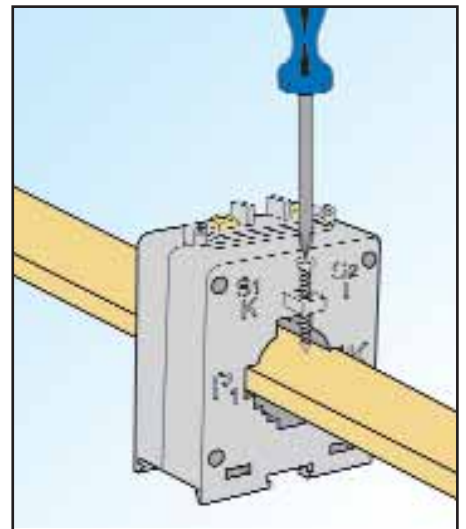
ON DIN RAIL



BASE MOUNTED WITH FEET

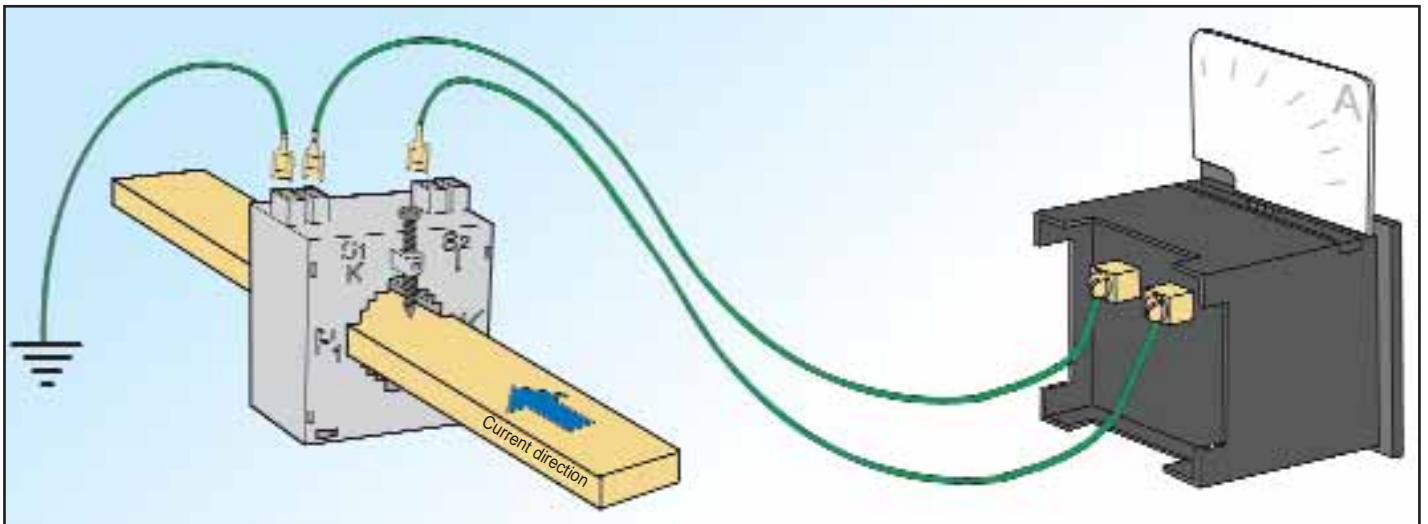


TO CABLE OR BUS BAR



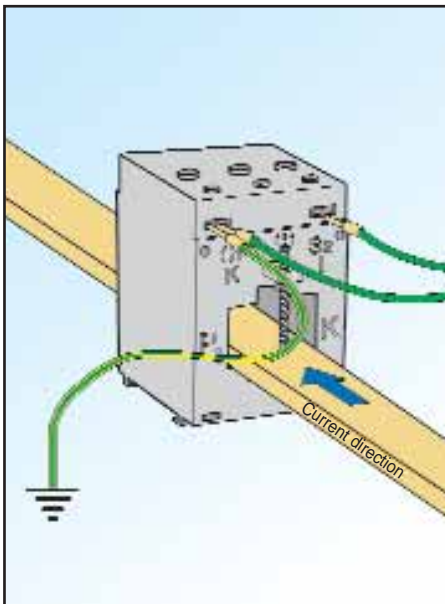
CONNECTION DIAGRAM - MINI SERIES

WITH FAST-ON (6,3 mm)

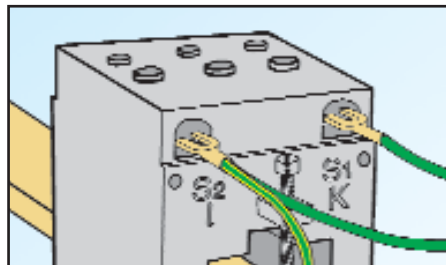


CONNECTION DIAGRAMS - SMALL SERIES

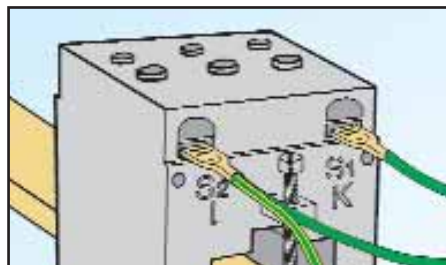
WITH METAL POINT  
CABLE TERMINAL



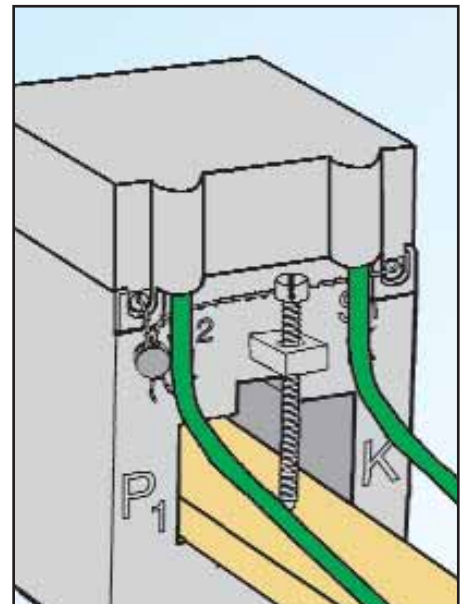
METAL FORK CABLE TERMINAL



WITH FAST-ON (6,3 mm)

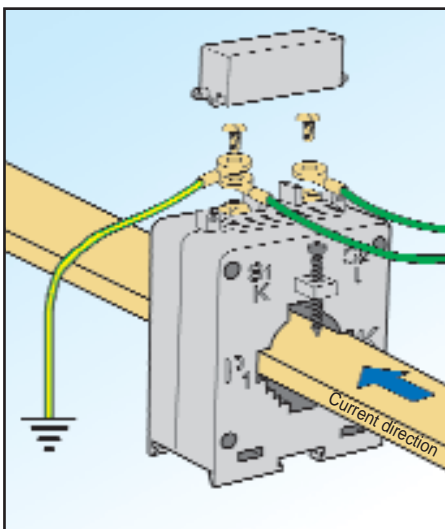


FIXING OF TERMINALS COVER AND  
LEAD SEAL

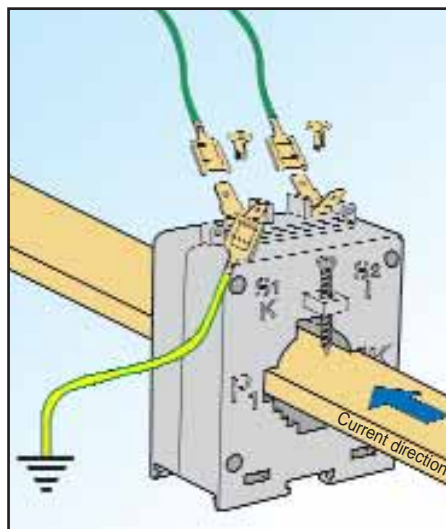


CONNECTION DIAGRAMS - STANDARD SERIES

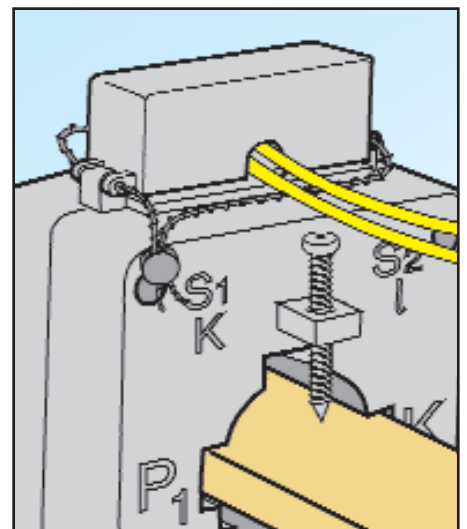
WITH METAL FORK  
CABLE TERMINAL



WITH FAST-ON (6,3 mm)



FIXING OF TERMINALS COVER  
AND LEAD SEAL



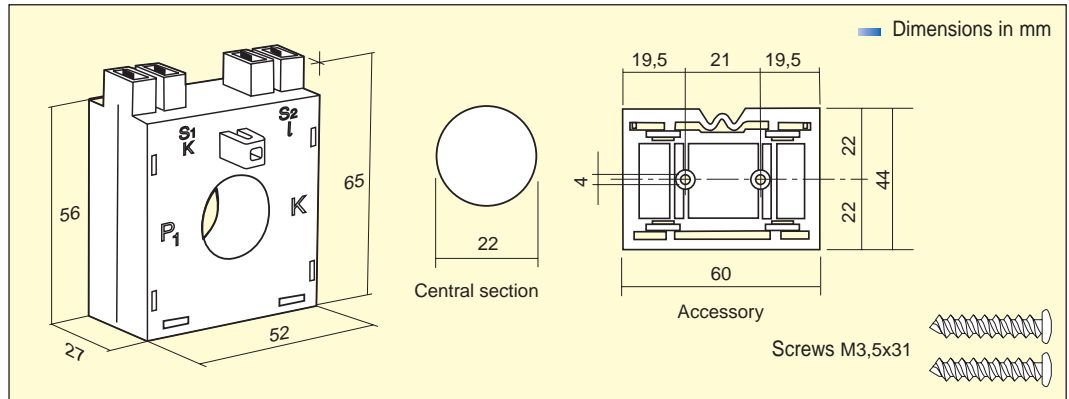


# CURRENT TRANSFORMERS LOW VOLTAGE MINI SERIES

## TAM1D

- Transformer suitable for primary current by cable with maximum diameter 21mm
- The double terminal entry allows short circuit links to be fitted when it is necessary to disconnect the measuring instrument from the transformer without damage to the CT, or for easier termination to ground of the CT

- Fixing system:
  - to wall or to DIN rail by an accessory
  - directly to cable by screws
 the accessory and the screws are supplied together with the current transformer

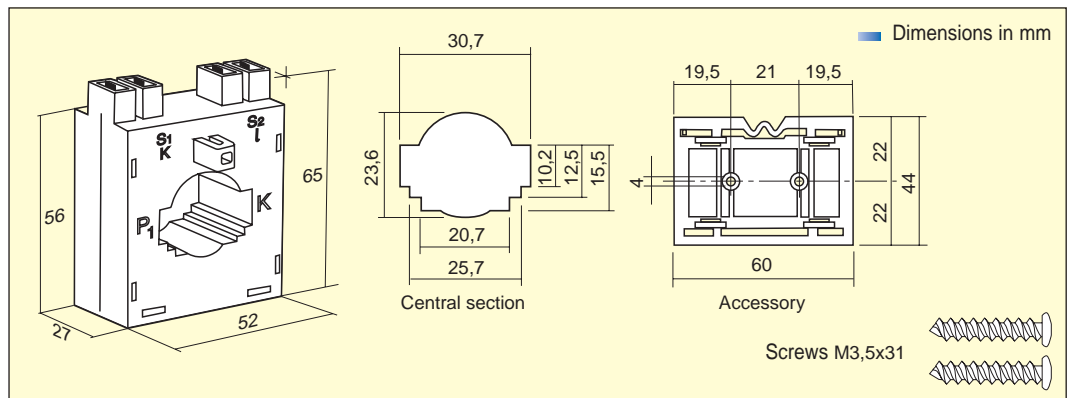


A	Kg	class 0,5				class 1				class 3			
		secondary current 5A		secondary current 1A		secondary current 5A		secondary current 1A		secondary current 5A		secondary current 1A	
		Code	VA	Code	VA	Code	VA	Code	VA	Code	VA	Code	VA
40	0,2									TAM1D 40A	2		
50										TAM1D 50A	2	TAM1D1 50A	2
60										TAM1D 60A	2	TAM1D1 60A	2
80										TAM1D 80A	3	TAM1D1 80A	3
100						TAM1D 100A	3	TAM1D1 100A	3				
150						TAM1D 150A	4	TAM1D1 150A	4				
200		TAM1D 200A	3					TAM1D1 200A	4				
250		TAM1D 250A	3	TAM1D1 250A	3								

## TAM3D

- Transformer suitable for primary current by cable with maximum diameter 23mm or by horizontal bar 20x12, 25x15, 30x10 mm
- Fixing system:
  - to wall or to DIN rail by an accessory
  - directly to cable or bus bar by screws
 the accessory and the screws are supplied together with the current transformer

- The double terminal entry allows short circuit links to be fitted when it is necessary to disconnect the measuring instrument from the transformer without damage to the CT, or for easier termination to ground of the CT

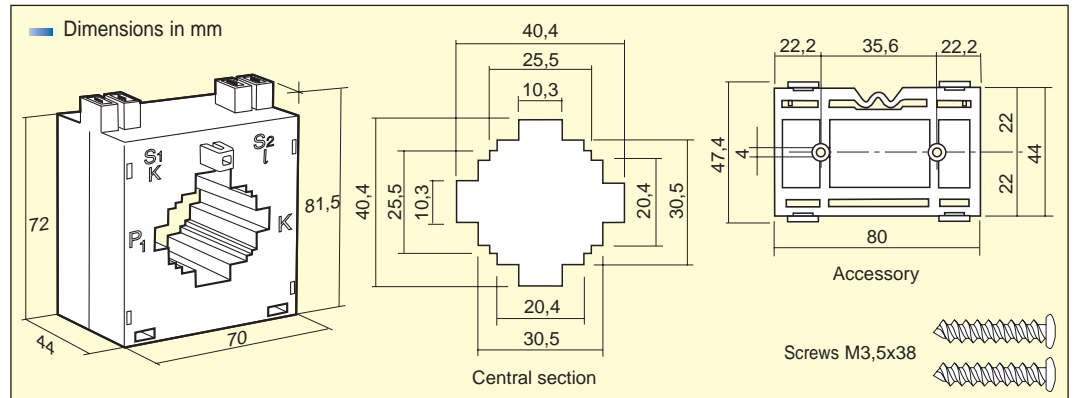


A	Kg	class 0,5				class 1			
		secondary current 5A		secondary current 1A		secondary current 5A		secondary current 1A	
		code	VA	code	VA	code	VA	code	VA
100	0,15					TAM3D 100A	2	TAM3D1 100A	2
150						TAM3D 150A	3	TAM3D1 150A	3
200						TAM3D 200A	3	TAM3D1 200A	3
250		TAM3D 250A	2	TAM3D1 250A	2				
300		TAM3D 300A	2	TAM3D1 300A	2				
400		TAM3D 400A	3	TAM3D1 400A	3				

## TAM4D

- Transformer suitable for primary current by cable with maximum diameter 30mm or horizontal/vertical bar 25x25, 30x20, 40x10 mm
- Fixing system:
  - to wall or to DIN rail by an accessory
  - directly to cable or bus bar by screws
 the accessory and the screws are supplied together with the current transformer

- The double terminal entry allows short circuit links to be fitted when it is necessary to disconnect the measuring instrument from the transformer without damage to the CT, or for easier termination to ground of the CT

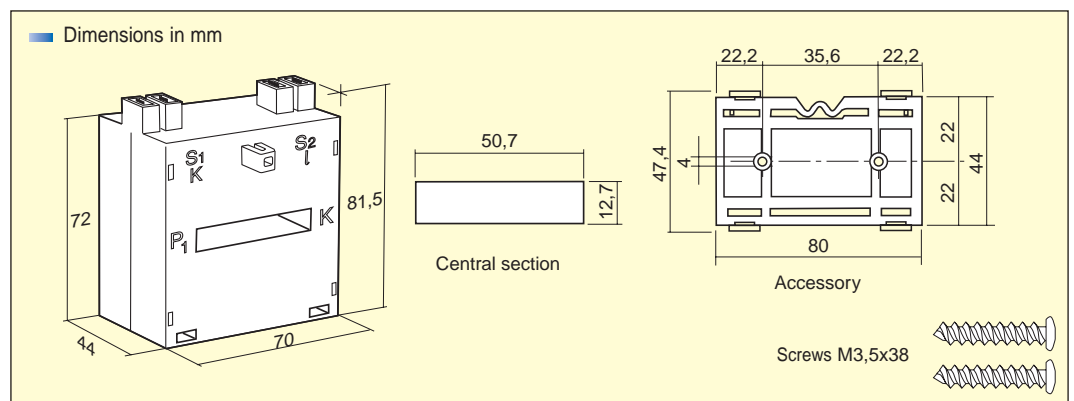


A	Kg	class 0,5				class 1			
		secondary current 5A		secondary current 1A		secondary current 5A		secondary current 1A	
		code	VA	code	VA	code	VA	code	VA
100	0,4	TAM4D 200A	4	TAM4D1 200A	4	TAM4D 100A	3	TAM4D1 100A	3
150						TAM4D 150A	3	TAM4D1 150A	3
200						TAM4D 250A	6	TAM4D1 250A	6
250						TAM4D 300A	6	TAM4D1 300A	6
300						TAM4D 400A	10	TAM4D1 400A	10
400	0,3	TAM4D 500A	10	TAM4D1 500A	10	TAM4D 600A	10	TAM4D1 600A	10
500									
600									

## TAM5D

- Transformer suitable for primary current by horizontal bar 50x12 mm
- Fixing system:
  - to wall or to DIN rail by an accessory
  - directly to bus bar by screws
 the accessory and the screws are supplied together with the current transformer

- The double terminal entry allows short circuit links to be fitted when it is necessary to disconnect the measuring instrument from the transformer without damage to the CT, or for easier termination to ground of the CT



A	Kg	class 0,5				class 1			
		secondary current 5A		secondary current 1A		secondary current 5A		secondary current 1A	
		code	VA	code	VA	code	VA	code	VA
250	0,3	TAM5D 300A	4	TAM5D1 300A	4	TAM5D 250A	3	TAM5D1 250A	3
300						TAM5D 400A	4	TAM5D1 400A	4
400						TAM5D 500A	6	TAM5D1 500A	6
500						TAM5D 600A	6	TAM5D1 600A	6
600						TAM5D 800A	10	TAM5D1 800A	10
800						TAM5D 1K0A	10	TAM5D1 1K0A	10
1000									

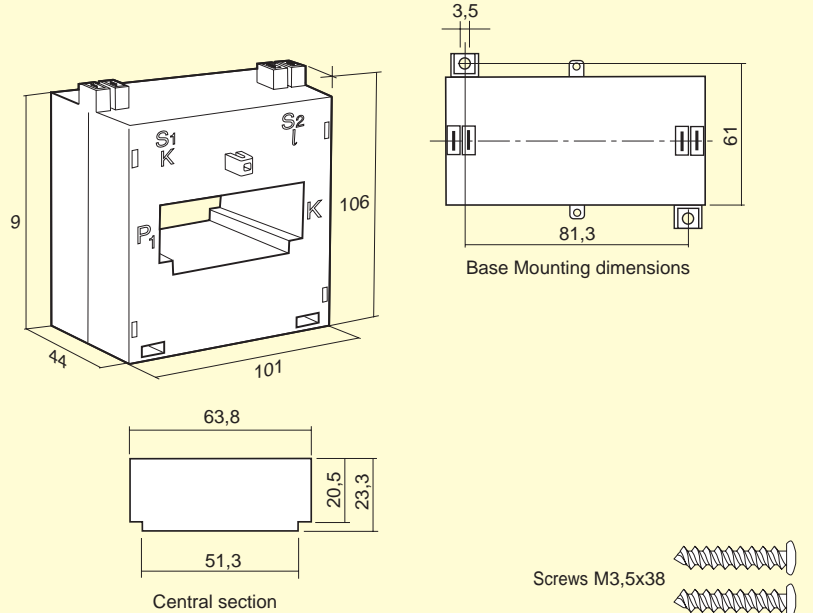
## TAM6

- Transformer suitable for primary current by two cables with maximum diameter 22mm or by horizontal bar 50x23, 63x20 mm
- Fixing system:
  - to wall by an accessory
  - directly to bus bar by screws
 the accessory and the screws are supplied together with the current transformer

- The double terminal entry allows short circuit links to be fitted when it is necessary to disconnect the measuring instrument from the transformer without damage to the CT, or for easier termination to ground of the CT



### Dimensions in mm

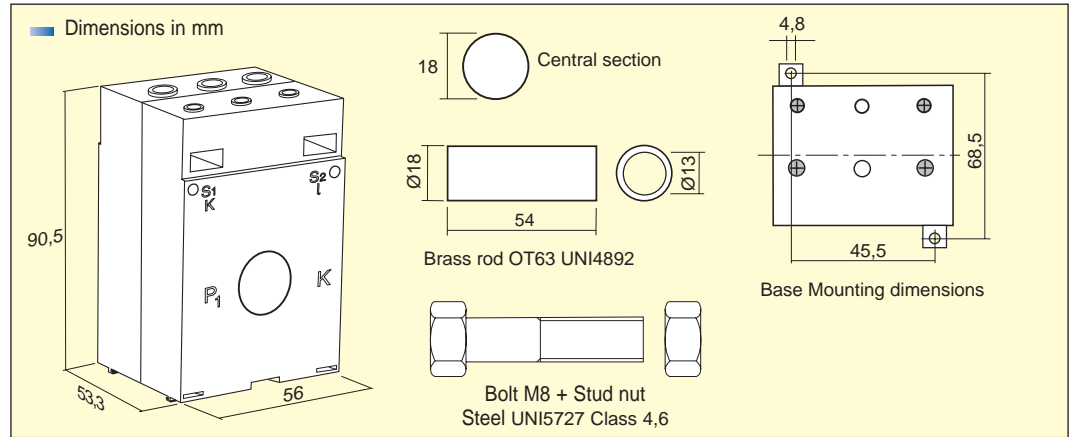


A	Kg	class 0,5			
		secondary current 5A		secondary current 1A	
		code	VA	code	VA
300	0,5	TAM6 300A	5	TAM61 300A	5
400		TAM6 400A	6	TAM61 400A	6
500		TAM6 500A	6	TAM61 500A	6
600	0,6	TAM6 600A	6	TAM61 600A	6
800		TAM6 800A	10	TAM61 800A	10
1000		TAM6 1K0A	10	TAM61 1K0A	10
1200	0,8	TAM6 1K2A	15	TAM61 1K2A	15
1500		TAM6 1K5A	20	TAM61 1K5A	20
1600		TAM6 1K6A	20	TAM61 1K6A	20
2000		TAM6 2K0A	20	TAM61 2K0A	20

# CURRENT TRANSFORMERS LOW VOLTAGE SMALL SERIES

## TCS08

- Transformer suitable for primary current by central rod with bolt M8
- Three different possibilities of the secondary's connection to choose between: fast-on, metal point cable terminal or metal fork cable terminal
- Fixing system: - to wall by an accessory or to DIN rail  
- directly to bus bar by the bolts supplied together with the current transformer
- Different characteristics on request

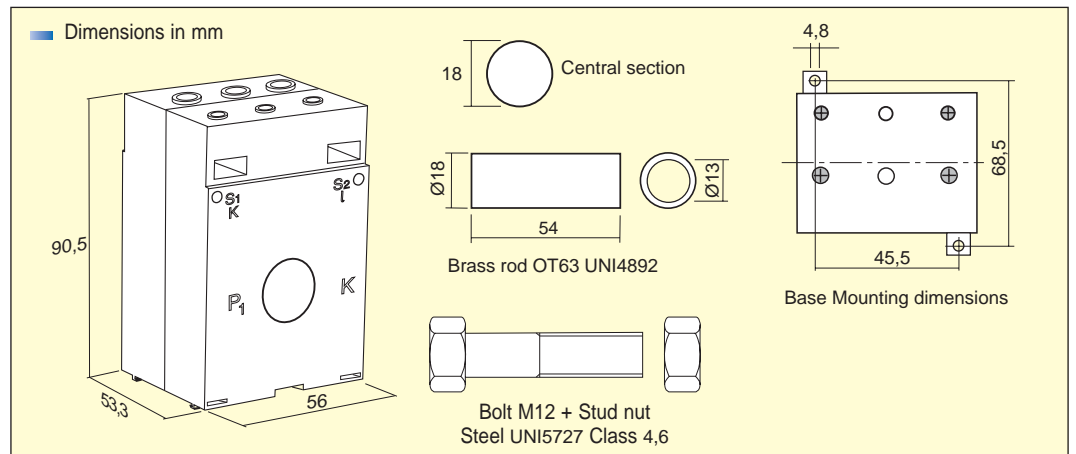


A	Kg	class 1				class 3			
		secondary current 5A		secondary current 1A		secondary current 5A		secondary current 1A	
		code	VA	code	VA	code	VA	code	VA
40	0,6	TCS08 80A	5	TCS081 80A	5	TCS08 40A	3	TCS081 40A	3
50						TCS08 50A	4	TCS081 50A	4
60						TCS08 60A	5	TCS081 60A	5
80									
100									
120									
150									



## TCS012

- Transformer suitable for primary current by central roll with bolt M12
- Three different possibilities of the secondary's connection to choose between: fast-on, metal point cable terminal or metal fork cable terminal
- Fixing system: - to wall by an accessory or to DIN rail  
- directly to bus bar by the bolts supplied together with the current transformer
- Different characteristics on request

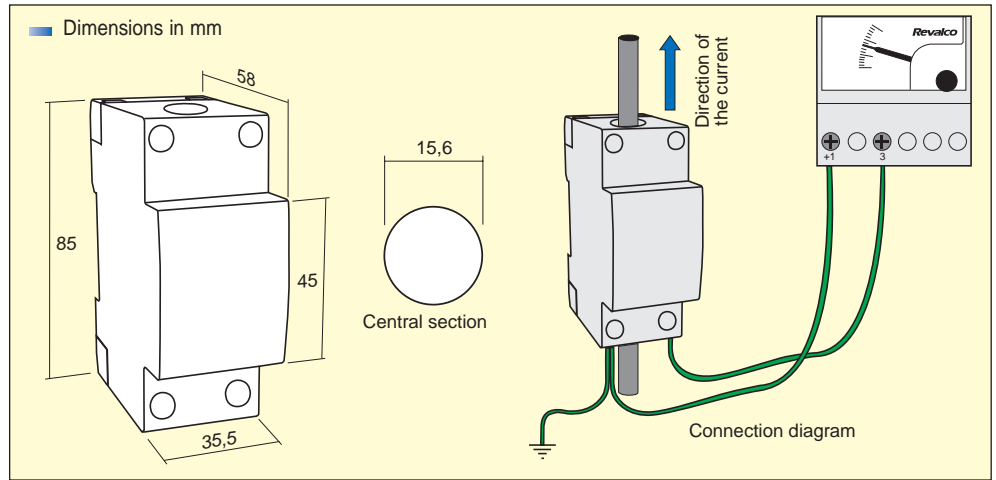


A	Kg	class 0,5			
		secondary current 5A		secondary current 1A	
		code	VA	code	VA
200		TCS012 200A	5	TCS0121 200A	5
250		TCS012 250A	10	TCS0121 250A	10
300		TCS012 300A	10	TCS0121 300A	10
400		TCS012 400A	10	TCS0121 400A	10
500		TCS012 500A	10	TCS0121 500A	10
600		TCS012 600A	10	TCS0121 600A	10



## TCSM15

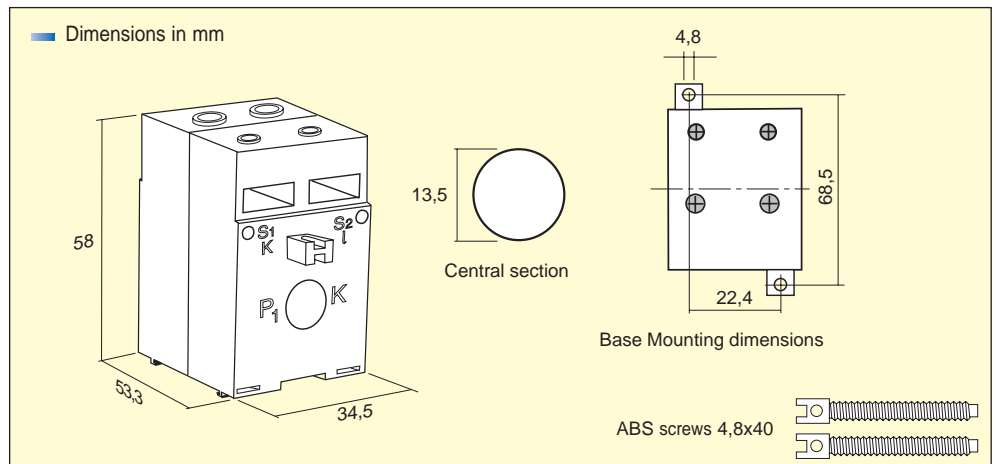
- Two DIN module case transformer, suitable for primary current by cable with maximum diameter 15mm
- Minimum dimensions between the cables 35mm
- Fixing system: to DIN rail
- Different characteristics on request



A	Kg	class 1				class 3			
		secondary current 5A		secondary current 1A		secondary current 5A		secondary current 1A	
		code	VA	code	VA	code	VA	code	VA
40	0,25					TCSM15 40A	2	TCSM151 40A	2
50						TCSM15 50A	2	TCSM151 50A	2
60						TCSM15 60A	3	TCSM151 60A	3
75						TCSM15 75A	3	TCSM151 75A	3
80						TCSM15 80A	3	TCSM151 80A	3
100		TCSM15 100A	3	TCSM151 100A	3				
120		TCSM15 120A	5	TCSM151 120A	5				
150		TCSM15 150A	5	TCSM151 150A	5				

## TCS13

- Transformer suitable for primary current by cable with maximum diameter 13mm
- Minimum dimensions between the cables 27mm
- Three different possibilities of the secondary's connection to choose between: fast-on, metal point cable terminal or metal fork cable terminal
- Fixing system: - to wall by an accessory or to DIN rail  
- directly to cable by the insulated screws supplied together with the current transformer
- Different characteristics on request

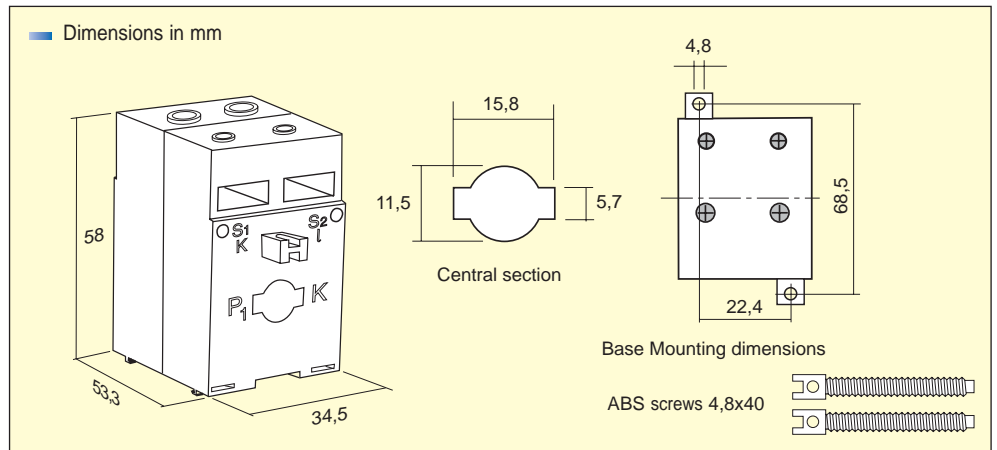


A	Kg	class 1				class 3			
		secondary current 5A		secondary current 1A		secondary current 5A		secondary current 1A	
		code	VA	code	VA	code	VA	code	VA
40	0,22					TCS13 40A	2	TCS131 40A	2
50						TCS13 50A	2	TCS131 50A	2
60						TCS13 60A	3	TCS131 60A	3
75						TCS13 75A	3	TCS131 75A	3
80						TCS13 80A	3	TCS131 80A	3
100		TCS13 100A	3	TCS131 100A	3				
120		TCS13 120A	5	TCS131 120A	5				
150		TCS13 150A	5	TCS131 150A	5				



## TCS16

- Transformer suitable for primary current by cable with maximum diameter 11mm or horizontal bar 15x5 mm
- Minimum dimension between the cables or the bars 27mm
- Three different possibilities of the secondary's connection to choose between: fast-on, metal point cable terminal or metal fork cable terminal
- Fixing system: - to wall by an accessory or to DIN rail  
- directly to cable or bus bar by the insulated screws supplied together with the current transformer
- Different characteristics on request



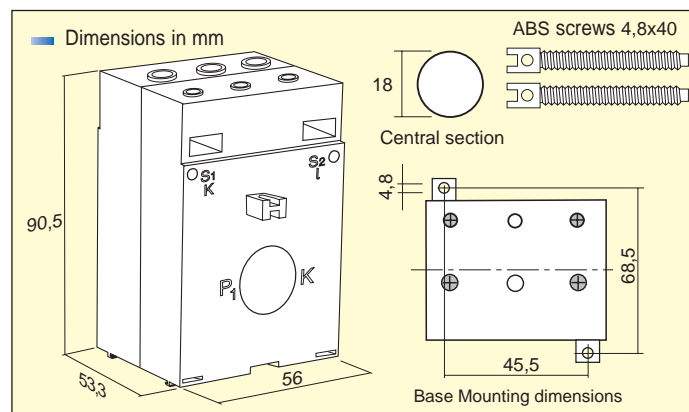
A	Kg	class 1				class 3			
		secondary current 5A		secondary current 1A		secondary current 5A		secondary current 1A	
		code	VA	code	VA	code	VA	code	VA
60	0,2					TCS16 60A	3	TCS161 60A	3
75						TCS16 75A	3	TCS161 75A	3
80						TCS16 80A	3	TCS161 80A	3
100		TCS16 100A	3	TCS161 100A	3				
120		TCS16 120A	5	TCS161 120A	5				
125		TCS16 125A	5	TCS161 125A	5				
150		TCS16 150A	5	TCS161 150A	5				



■ ATCS1C  
Sealable terminal covers on request

## TCS18

- Transformer suitable for primary current by cable with maximum diameter 18 mm
- Minimum dimension between the cables 45 mm
- Three different possibilities of the secondary's connection to choose between: fast-on, metal point cable terminal or metal fork cable terminal
- Fixing system: - to wall by an accessory or to DIN rail  
- directly to cable by the insulated screws supplied together with the current transformer
- Different characteristics on request

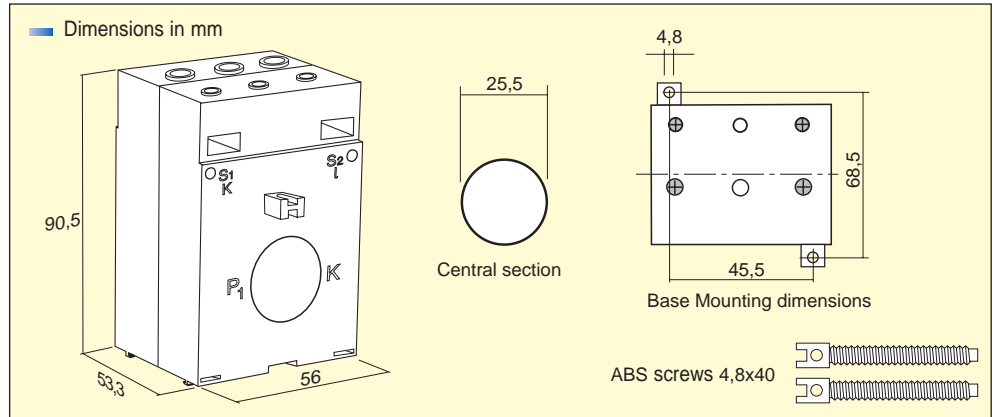


■ ATCS2C  
Sealable terminal covers on request

A	Kg	class 0,5				class 1				class 3			
		secondary current 5A		secondary current 1A		secondary current 5A		secondary current 1A		secondary current 5A		secondary current 1A	
		code	VA	code	VA	code	VA	code	VA	code	VA	code	VA
40	0,5									TCS18 40A	3	TCS181 40A	3
50										TCS18 50A	4	TCS181 50A	4
60										TCS18 60A	5	TCS181 60A	5
75										TCS18 75A	5	TCS181 75A	5
80										TCS18 80A	5	TCS181 80A	5
100							TCS18 100A	5	TCS181 100A	5			
120							TCS18 120A	5	TCS181 120A	5			
125							TCS18 125A	5	TCS181 125A	5			
150		TCS18 150A	5	TCS181 150A	5								
200		TCS18 200A	5	TCS181 200A	5								
250		TCS18 250A	10	TCS181 250A	10								
300		TCS18 300A	10	TCS181 300A	10								

## TCS25

- Transformer suitable for primary current by cable with maximum diameter 25mm
- Minimum dimension between the cables 45mm
- Three different possibilities of the secondary's connection to choose between: fast-on, metal point cable terminal or metal fork cable terminal
- Fixing system: - to wall by an accessory or to DIN rail  
- directly to cable by the insulated screws supplied together with the current transformer
- Different characteristics on request

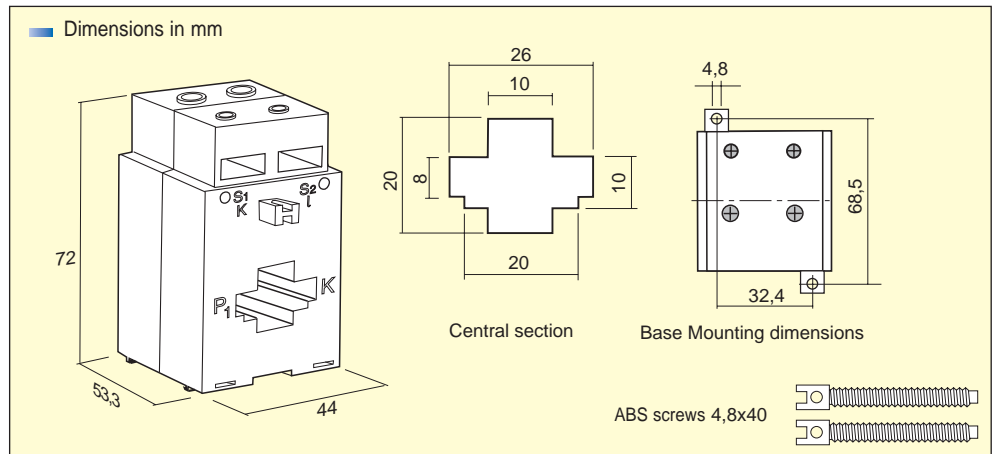


A	Kg	class 0,5			
primary current	medium weight	secondary current 5A		secondary current 1A	
		code	VA	code	VA
200	0,4	TCS25 200A	5	TCS251 200A	5
250		TCS25 250A	6	TCS251 250A	6
300		TCS25 300A	6	TCS251 300A	6
400		TCS25 400A	10	TCS251 400A	10



## TCS26

- Transformer suitable for primary current by horizontal bar 15x5, 20x5, 25x5, 25x6,5mm or vertical bar 15x5, 20x5 mm
- Minimum dimension between the bars 35mm
- Three different possibilities of the secondary's connection to choose between: fast-on, metal point cable terminal or metal fork cable terminal
- Fixing system: - to wall by an accessory or to DIN rail  
- directly to bus bar by the insulated screws supplied together with the current transformer
- Different characteristics on request

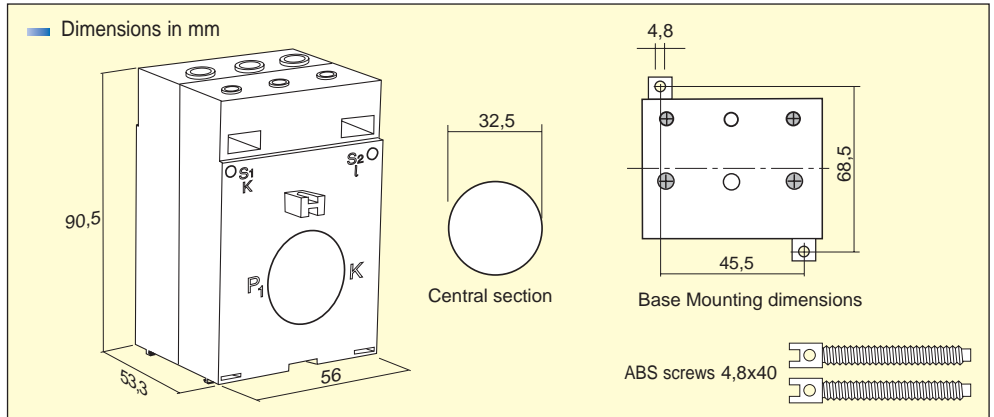


A	Kg	class 0,5				class 1			
		secondary current 5A		secondary current 1A		secondary current 5A		secondary current 1A	
		code	VA	code	VA	code	VA	code	VA
100	0,25					TCS26 100A	3	TCS261 100A	3
120						TCS26 120A	5	TCS261 120A	5
125						TCS26 125A	5	TCS261 125A	5
150						TCS26 150A	5	TCS261 150A	5
200						TCS26 200A	5	TCS261 200A	5
250						TCS26 250A	5	TCS261 250A	5
300		TCS26 300A	5	TCS261 300A	5				



## TCS32

- Transformer suitable for primary current by cable with maximum diameter 32 mm
- Minimum dimension between the cables 45 mm
- Three different possibilities of the secondary's connection to choose between: fast-on, metal point cable terminal or metal fork cable terminal
- Fixing system: - to wall by an accessory or to DIN rail  
- directly to cable by the insulated screws supplied together with the current transformer
- Different characteristics on request



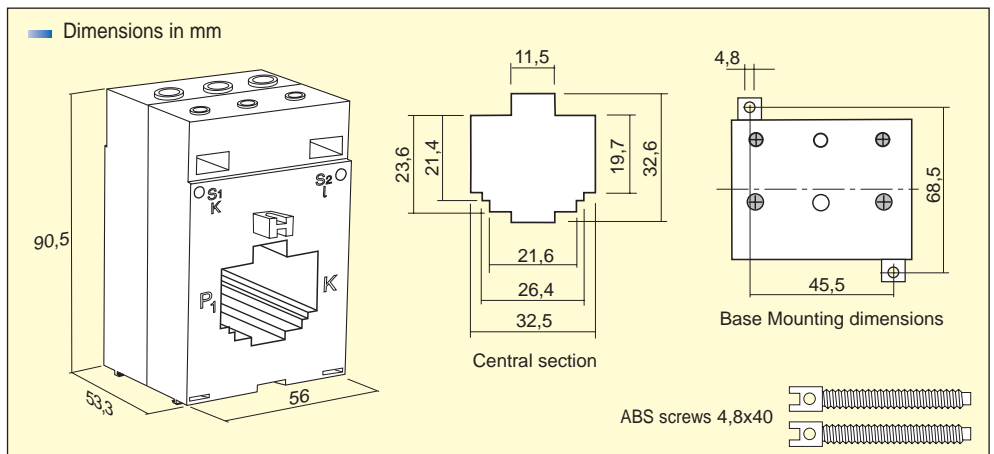
A	Kg	class 0,5			
primary current	medium weight	secondary current 5A		secondary current 1A	
		code	VA	code	VA
200	0,3	TCS32 200A	5	TCS321 200A	5
250		TCS32 250A	5	TCS321 250A	5
300		TCS32 300A	5	TCS321 300A	5
400		TCS32 400A	6	TCS321 400A	6
500		TCS32 500A	10	TCS321 500A	10
600		TCS32 600A	10	TCS321 600A	10



■ ATCS2C  
Sealable terminal covers on request

## TCS33

- Transformer suitable for primary current by horizontal bar 29x9,5 - 29x10,5 - 29x12,5 - 30x5 - 30x6 - 30x8 - 30x10 - 2x30x5 - 2x32x5 mm or vertical bar: 32x5 mm
- Minimum dimension between the horizontal bars 45mm, between the vertical bars 35mm
- Three different possibilities of the secondary's connection to choose between: fast-on, metal point cable terminal or metal fork cable terminal
- Fixing system: - to wall by an accessory or to DIN rail  
- directly to bus bar by the insulated screws supplied together with the current transformer
- Different characteristics on request



A	Kg	class 0,5				class 1			
primary current	medium weight	secondary current 5A		secondary current 1A		secondary current 5A		secondary current 1A	
		code	VA	code	VA	code	VA	code	VA
200	0,3					TCS33 200A	5	TCS331 200A	5
250						TCS33 250A	5	TCS331 250A	5
300		TCS33 300A	5	TCS331 300A	5				
400		TCS33 400A	6	TCS331 400A	6				
500		TCS33 500A	10	TCS331 500A	10				
600		TCS33 600A	10	TCS331 600A	10				

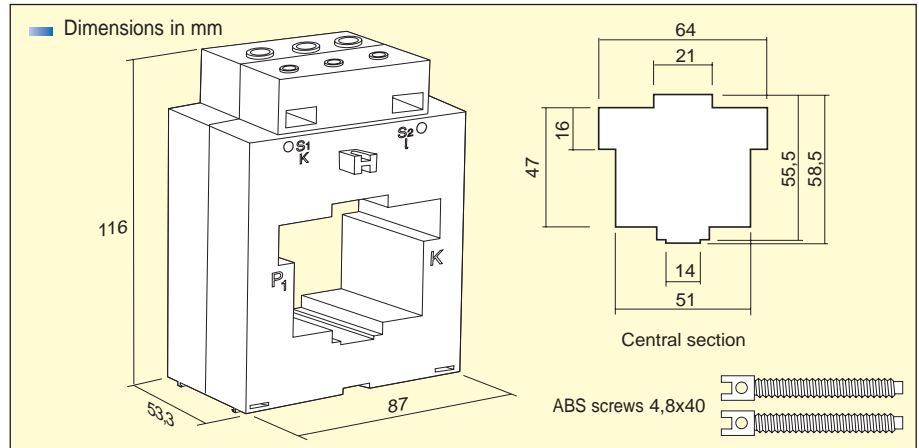


■ ATCS2C  
Sealable terminal covers on request



## TCS64

- Transformer suitable for primary current by horizontal bar  
30x30 - 30x45 - 37x9,5 - 37x13 - 50x10 - 55x9,5 - 55x13 - 63x5  
2x50x5 - 2x50x10 - 2x63x5 - 3x50x5 mm  
or vertical bar 50x5 - 2x50x5 - 2x50x10 - 3x50x5 mm
- Minimum dimension between horizontal bars 70 mm; between vertical bars 50 mm
- Three different possibilities of the secondary's connection to choose between: fast-on, metal point cable terminal or metal fork cable terminal
- Fixing system: directly to bus bar by the insulated screws supplied together with the current transformer
- Different characteristics on request



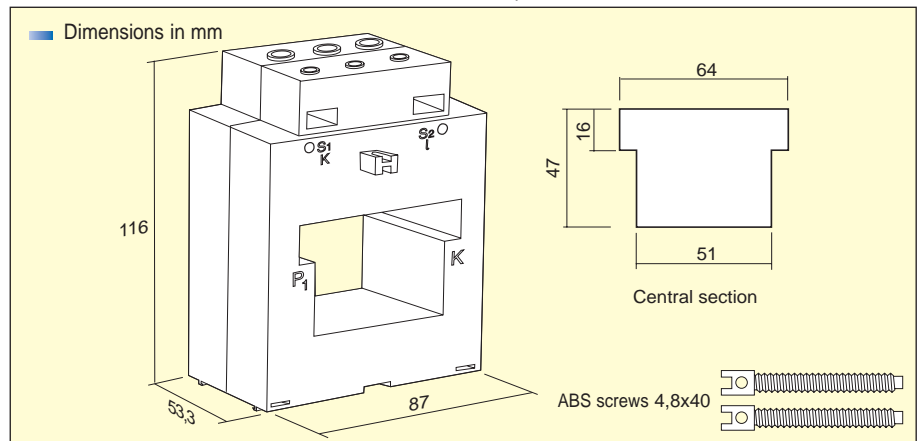
A	Kg	class 0,5				class 1			
		secondary current 5A		secondary current 1A		secondary current 5A		secondary current 1A	
		code	VA	code	VA	code	VA	code	VA
200	0,5					TCS64 200A	5	TCS641 200A	5
250						TCS64 250A	5	TCS641 250A	5
300		TCS64 300A	5	TCS641 300A	5				
400		TCS64 400A	5	TCS641 400A	5				
500		TCS64 500A	10	TCS641 500A	10				
600		TCS64 600A	10	TCS641 600A	10				
800		TCS64 800A	10	TCS641 800A	10				
1000		TCS64 1K0A	15	TCS641 1K0A	15				
1250		TCS64 1K25A	15	TCS641 1K25A	15				



ATCS2C  
Sealable terminal covers on request

## TCS647

- Transformer suitable for primary current by horizontal bar  
30x30 - 30x45 - 37x9,5 - 37x13 - 50x10 - 55x9,5 - 55x13 - 63x5  
2x50x5 - 2x50x10 - 2x63x5 - 3x50x5 mm  
or vertical bar 40x5 - 2x40x5 - 2x40x10 - 3x40x5 mm
- Minimum dimension between horizontal bars 70 mm; between vertical bars 50 mm
- Three different possibilities of the secondary's connection to choose between: fast-on, metal point cable terminal or metal fork cable terminal
- Fixing system: directly to bus bar by the insulated screws supplied together with the current transformer
- Different characteristics on request



A	Kg	class 0,5				class 1			
		secondary current 5A		secondary current 1A		secondary current 5A		secondary current 1A	
		code	VA	code	VA	code	VA	code	VA
200						TCS647 200A	5	TCS6471 200A	5
250						TCS647 250A	5	TCS6471 250A	5
300		TCS647 300A	5	TCS6471 300A	5				
400		TCS647 400A	5	TCS6471 400A	5				
500		TCS647 500A	10	TCS6471 500A	10				
600		TCS647 600A	10	TCS6471 600A	10				
800		TCS647 800A	10	TCS6471 800A	10				
1000		TCS647 1K0A	15	TCS6471 1K0A	15				
1250		TCS647 1K25A	15	TCS6471 1K25A	15				
1500		TCS647 1K5A	10	TCS6471 1K5A	10				
2000		TCS647 2K0A	10	TCS6471 2K0A	10				

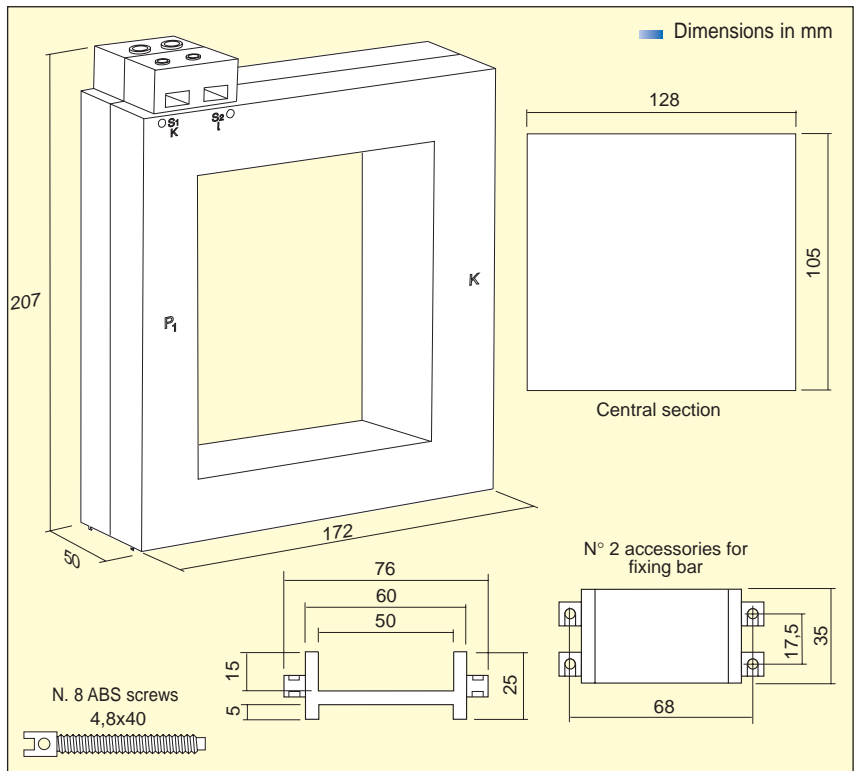


ATCS2C  
Sealable terminal covers on request

## TCS126

- Transformer suitable for primary current by horizontal bar 120x10 - 2x120x10 - 3x120x10 mm or vertical bar 100x10 - 2x100x10 - 3x100x10 mm
- Fixing system: directly to bus bar by the insulated screws supplied together with the current transformer

- Three different possibilities of the secondary's connection to choose between: fast-on, metal point cable terminal or metal fork cable terminal
- Different characteristics on request
- Sealable terminal covers ATCS1C on request

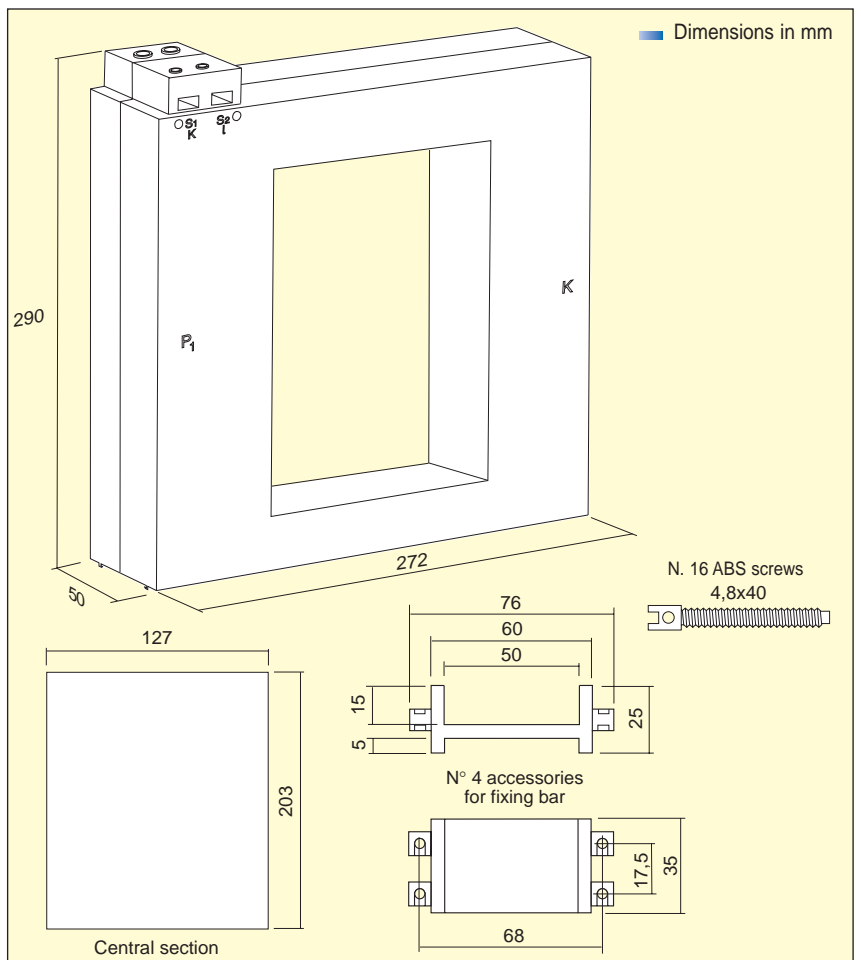


A	Kg	class 0,5			
primary current	medium weight	secondary current 5A		secondary current 1A	
		code	VA	code	VA
1000		TCS126 1K0A	20	TCS1261 1K0A	20
1200		TCS126 1K2A	20	TCS1261 1K2A	20
1500		TCS126 1K5A	20	TCS1261 1K5A	20
2000		TCS126 2K0A	30	TCS1261 2K0A	30
2500		TCS126 2K5A	40	TCS1261 2K5A	40
3000		TCS126 3K0A	40	TCS1261 3K0A	40
4000		TCS126 4K0A	50	TCS1261 4K0A	50
5000		TCS126 5K0A	50	TCS1261 5K0A	50

## TCS200

- Transformer suitable for primary current by horizontal bar 120x10 - 2x120x10 - 3x120x10 mm or vertical bar 200x10 - 2x200x10 - 3x200x10 mm
- Fixing system: directly to bus bar by the insulated screws supplied together with the current transformer

- Three different possibilities of the secondary's connection to choose between: fast-on, metal point cable terminal or metal fork cable terminal
- Different characteristics on request
- Sealable terminal covers ATCS1C on request

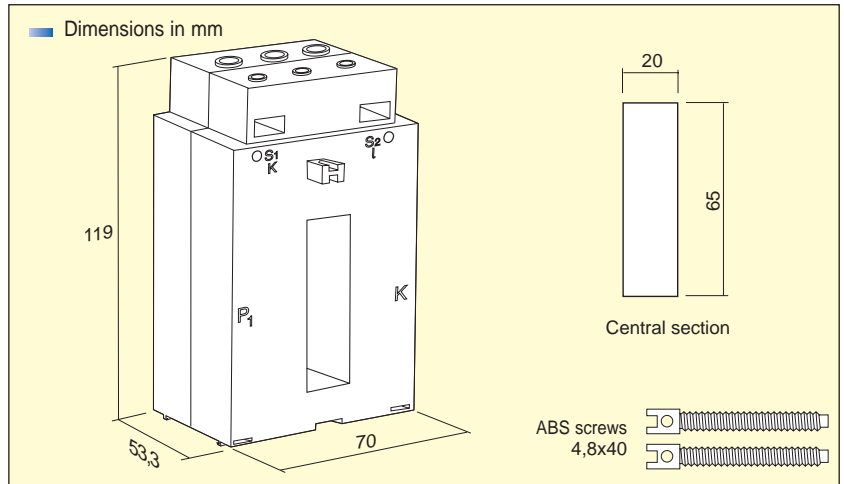


A	Kg	class 0,5			
primary current	medium weight	secondary current 5A		secondary current 1A	
		code	VA	code	VA
1000		TCS200 1K0A	20	TCS2001 1K0A	20
1200		TCS200 1K2A	20	TCS2001 1K2A	20
1500		TCS200 1K5A	20	TCS2001 1K5A	20
2000		TCS200 2K0A	30	TCS2001 2K0A	30
2500		TCS200 2K5A	40	TCS2001 2K5A	40
3000		TCS200 3K0A	40	TCS2001 3K0A	40
4000		TCS200 4K0A	50	TCS2001 4K0A	50
5000		TCS200 5K0A	50	TCS2001 5K0A	50
6000		TCS200 6K0A	50	TCS2001 6K0A	50

## TCS65V

- Transformer suitable for primary current by vertical bar 2x63x5 - 3x63x5 mm
- Minimum dimension between the bars 45 mm
- Three different possibilities of the secondary's connection to choose

- between: fast-on, metal point cable terminal or metal fork cable terminal
- Fixing system: directly to bus bar by the insulated screws supplied together with the current transformer
- Different characteristics on request



A	Kg	class 0,5			
primary current	medium weight	secondary current 5A		secondary current 1A	
		code	VA	code	VA
400	0,5	TCS65V 400A	5	TCS651V 400A	5
500		TCS65V 500A	10	TCS651V 500A	10
600		TCS65V 600A	10	TCS651V 600A	10
800		TCS65V 800A	10	TCS651V 800A	10
1000		TCS65V 1K0A	15	TCS651V 1K0A	15
1250		TCS65V 1K25A	15	TCS651V 1K25A	15

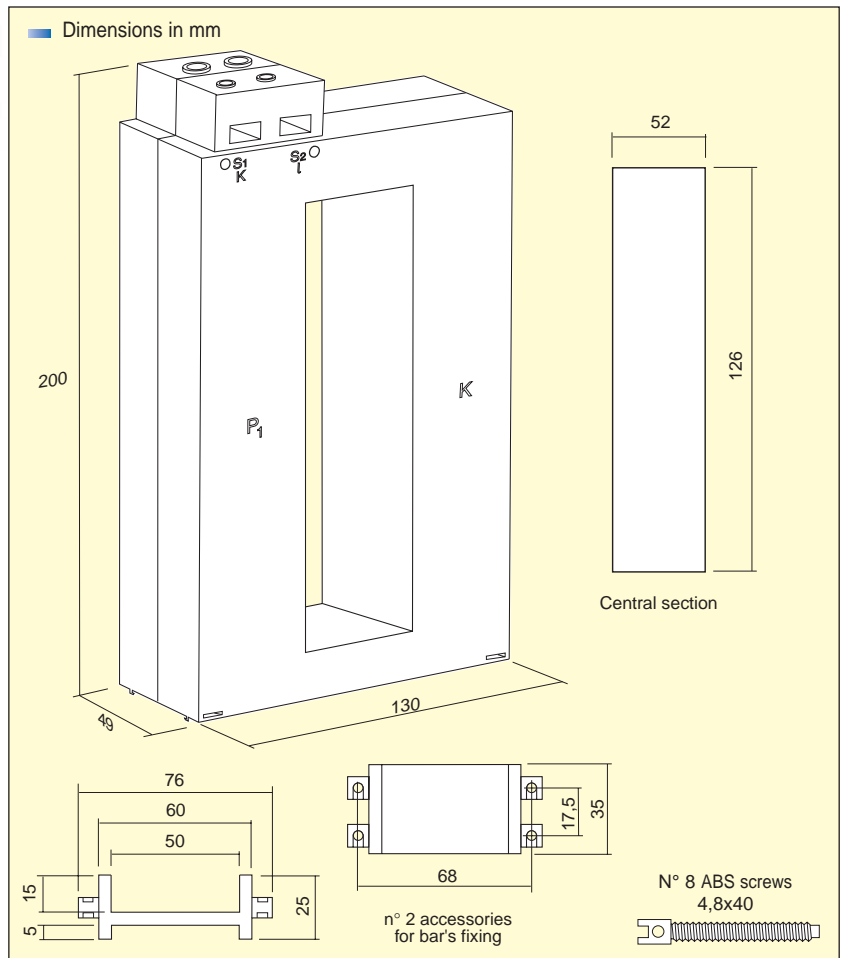


■ ATCS2C  
Sealable terminal covers on request

## TCS126V

- Transformer suitable for primary current by vertical bar 2x80x5 - 2x80x10 - 3x80x5 - 5x80x5 - 2x100x5 - 3x100x5 - 4x100x5 - 100x10 - 2x100x10 - 5x100x5 - 3x120x10 - 2x125x5 mm
- Minimum dimension between the bars 75 mm

- Three different possibilities of the secondary's connection to choose between: fast-on, metal point cable terminal or metal fork cable terminal
- Fixing system: directly to bus bar by the insulated screws supplied together with the current transformer
- Different characteristics on request

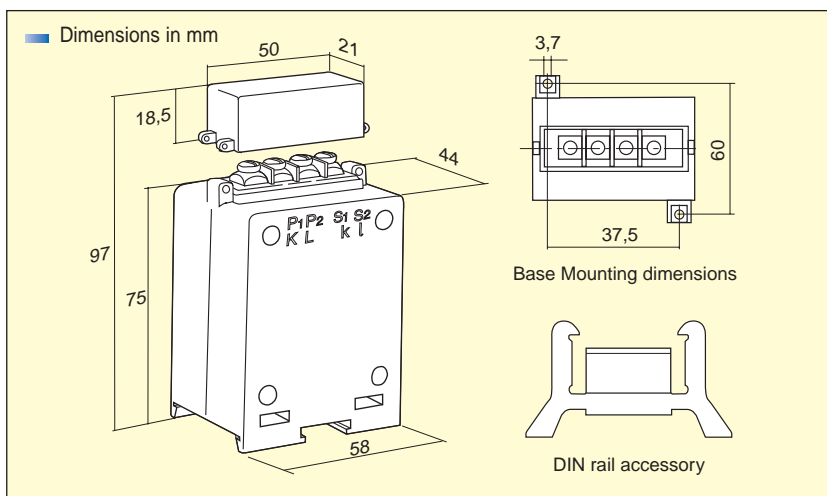


A	Kg	class 0,5			
primary current	medium weight	secondary current 5A		secondary current 1A	
		code	VA	code	VA
1250		TCS126V 1K25A	20	TCS126V1 1K25A	20
1500		TCS126V 1K5A	20	TCS126V1 1K5A	20
2000		TCS126V 2K0A	20	TCS126V1 2K0A	20
2500		TCS126V 2K5A	20	TCS126V1 2K5A	20
3000		TCS126V 3K0A	20	TCS126V1 3K0A	20
4000		TCS126V 4K0A	30	TCS126V1 4K0A	30

# CURRENT TRANSFORMERS LOW VOLTAGE STANDARD SERIES

## TARPDE1

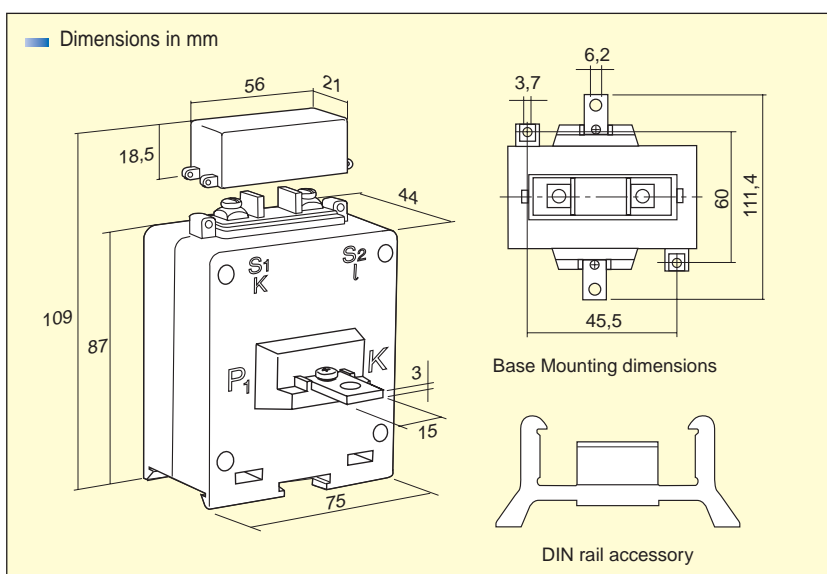
- Transformer with wound primary cable, primary and secondary currents on the terminals
- Fixing system: to wall or to DIN rail by accessories supplied together with the current transformer
- The short circuit on terminals or the connection to earth can be achieved by the double fast-on or connecting two wires on the same terminal
- Sealable terminals cover included
- Different characteristics on request



A	Kg	class 1			
primary current	medium weight	secondary current 5A		secondary current 1A	
		code	VA	code	VA
1	0,4	TARPDE1 1A	3	TARPDE11 1A	3
5		TARPDE1 5A	3	TARPDE11 5A	3
10		TARPDE1 10A	3	TARPDE11 10A	3
15		TARPDE1 15A	3	TARPDE11 15A	3
20		TARPDE1 20A	3	TARPDE11 20A	3
25		TARPDE1 25A	3	TARPDE11 25A	3
30		TARPDE1 30A	3	TARPDE11 30A	3
40		TARPDE1 40A	3	TARPDE11 40A	3

## TARPDE2

- Transformer with wound primary cable, primary current by central incorporated bar 15x3 mm; secondary current on terminals
- Fixing system: to wall or to DIN rail by accessories supplied together with the current transformer
- The short circuit on terminals or the connection to earth can be achieved by the double fast-on or connecting two wires on the same terminal
- Sealable terminals cover included
- Different characteristics on request

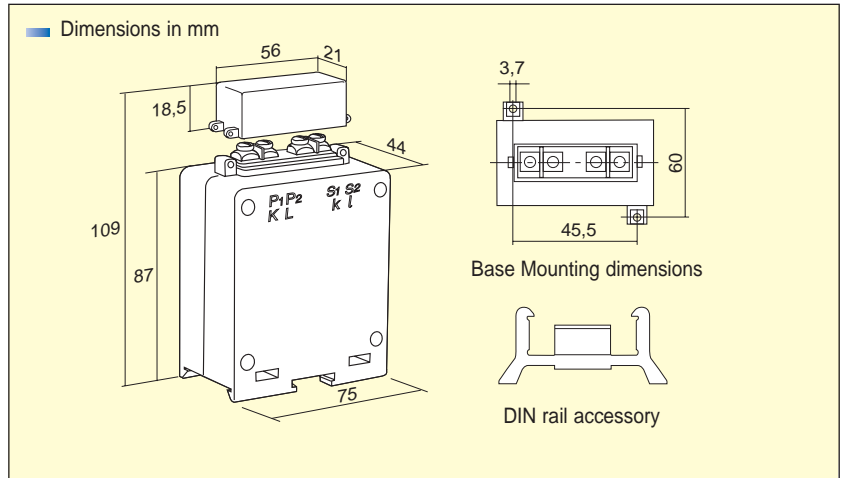


A	Kg	class 1			
primary current	medium weight	secondary current 5A		secondary current 1A	
		code	VA	code	VA
50	0,5	TARPDE2 50A	3	TARPDE21 50A	3
60		TARPDE2 60A	3	TARPDE21 60A	3
80		TARPDE2 80A	3	TARPDE21 80A	3
100		TARPDE2 100A	3	TARPDE21 100A	3
150		TARPDE2 150A	3	TARPDE21 150A	3

## TARPD1

- Transformer with wound primary cable, primary and secondary currents on the terminals

- Fixing system: to wall or to DIN rail by accessories supplied together with the current transformer
- The short circuit on terminals or the connection to earth can be achieved by the double fast-on or connecting two wires on the same terminal
- Sealable terminals cover included
- Different characteristics on request

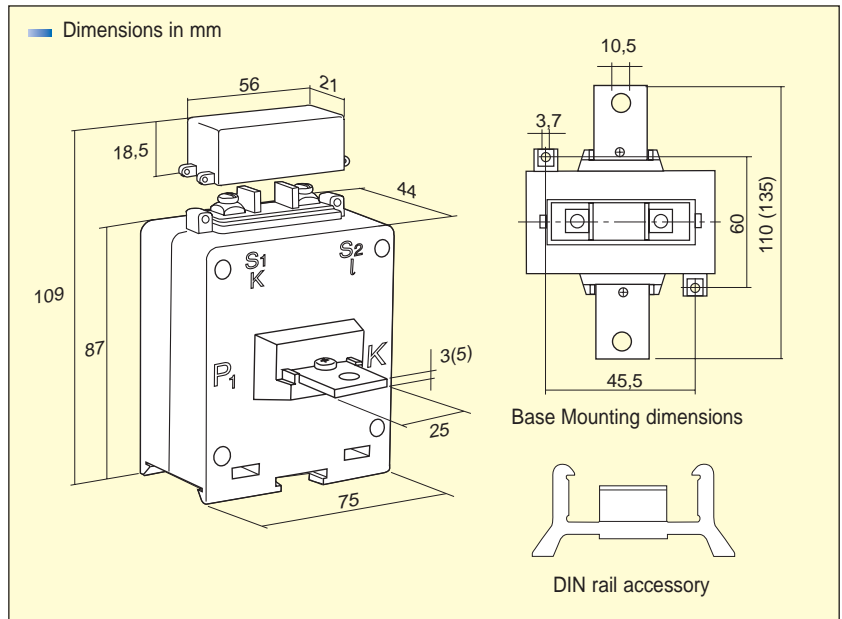


A	Kg	class 0,5			
primary current	medium weight	secondary current 5A		secondary current 1A	
		code	VA	code	VA
1	0,5	TARPD1 1A	6	TARPD11 1A	6
5		TARPD1 5A	6	TARPD11 5A	6
10		TARPD1 10A	6	TARPD11 10A	6
15		TARPD1 15A	6	TARPD11 15A	6
20		TARPD1 20A	6	TARPD11 20A	6
25		TARPD1 25A	6	TARPD11 25A	6
30		TARPD1 30A	6	TARPD11 30A	6
40		TARPD1 40A	6	TARPD11 40A	6

## TARPD2

- Transformer with wound primary cable, primary current by central incorporated bar 25x3 mm up to 300A  
25x5 mm from 400 to 500A  
secondary current on terminals

- Fixing system: to wall or to DIN rail by accessories supplied together with the current transformer
- The short circuit on terminals or the connection to earth can be achieved by the double fast-on or connecting two wires on the same terminal
- Sealable terminals cover included
- Different characteristics on request



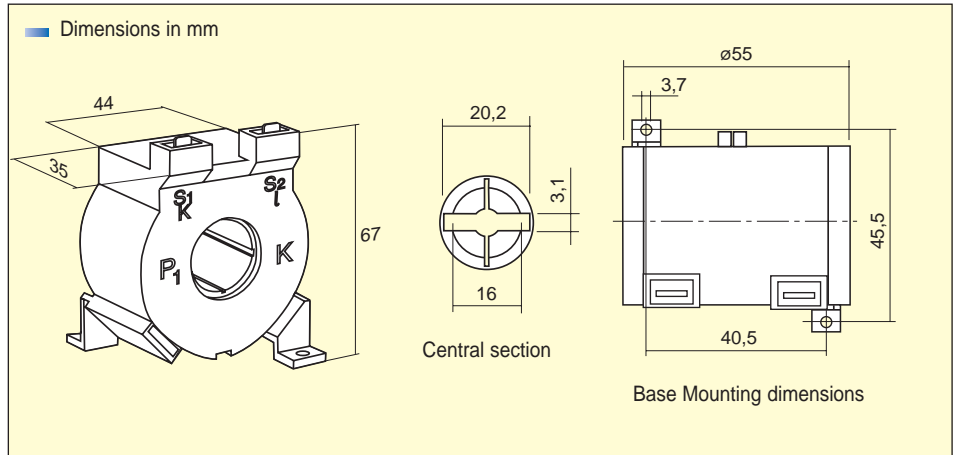
A	Kg	class 0,5			
primary current	medium weight	secondary current 5A		secondary current 1A	
		code	VA	code	VA
50	0,5	TARPD2 50A	6	TARPD21 50A	6
60		TARPD2 60A	6	TARPD21 60A	6
80		TARPD2 80A	6	TARPD21 80A	6
100		TARPD2 100A	6	TARPD21 100A	6
150		TARPD2 150A	6	TARPD21 150A	6
200		TARPD2 200A	6	TARPD21 200A	6
250		TARPD2 250A	6	TARPD21 250A	6
300		TARPD2 300A	6	TARPD21 300A	6
400		TARPD2 400A	6	TARPD21 400A	6
500		TARPD2 500A	6	TARPD21 500A	6

## TARO

- Transformer suitable for primary current by cable with maximum diameter 15mm or by horizontal bar 20x3mm

- Fixing system:
  - to wall by accessories
  - directly to cable or bus bar the accessories are supplied together with the current transformer

- Different characteristics on request

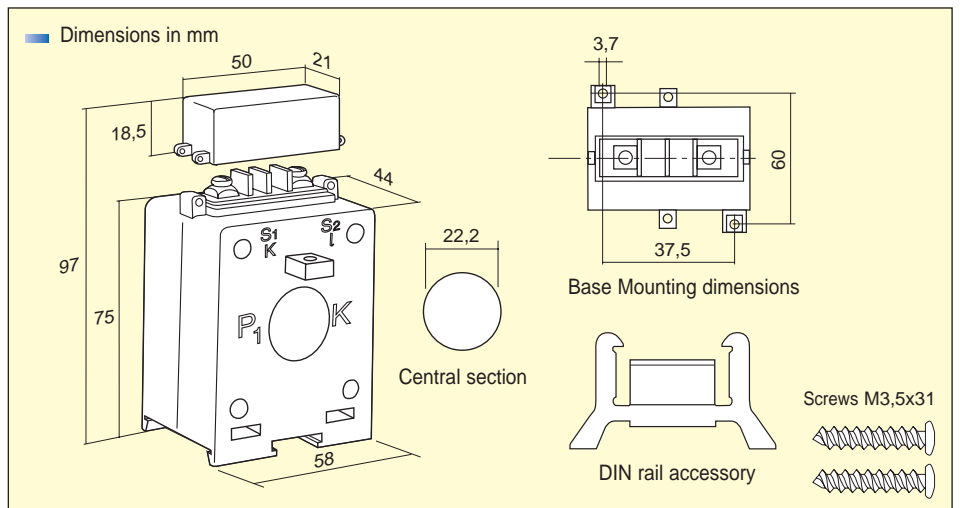


A	Kg	class 0,5				class 1				class 3			
		secondary current 5A		secondary current 1A		secondary current 5A		secondary current 1A		secondary current 5A		secondary current 1A	
		code	VA	code	VA	code	VA	code	VA	code	VA	code	VA
40	0,25									TAR0 40A	2	TAR01 40A	2
50										TAR0 50A	2	TAR01 50A	2
60										TAR0 60A	3	TAR01 60A	3
80										TAR0 80A	3	TAR01 80A	3
100													
150		TAR0 150A	3	TAR01 150A	3	TAR0 100A	3	TAR01 100A	3				
200		TAR0 200A	3	TAR01 200A	3								
250	TAR0 250A	5	TAR01 250A	5									

## TAR1D

- Transformer suitable for primary current by cable with maximum diameter 20 mm
- The short circuit on terminals or the connection to earth can be achieved by the double fast-on or connecting two wires on the same terminal

- Fixing system:
  - to wall or to DIN rail by accessories
  - directly to cable by screws
- the accessories and the screws are supplied together with the current transformer
- Sealable terminals cover included
- Different characteristics on request

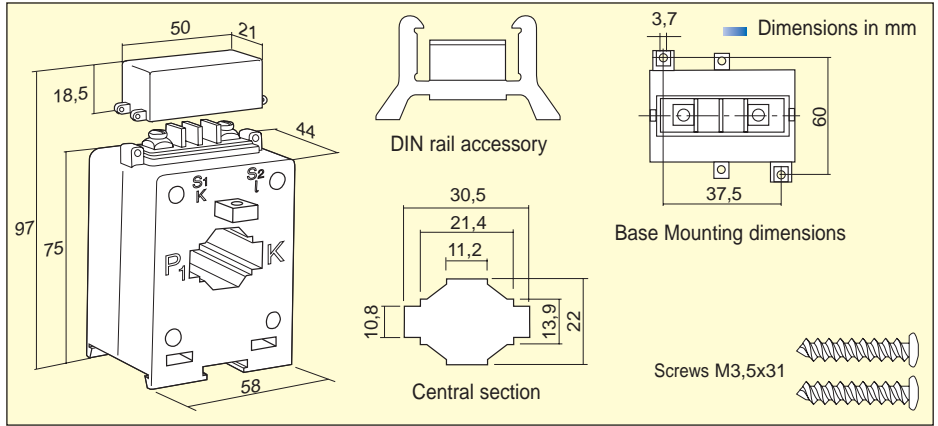


A	Kg	class 0,5				class 1				class 3			
		secondary current 5A		secondary current 1A		secondary current 5A		secondary current 1A		secondary current 5A		secondary current 1A	
		code	VA	code	VA	code	VA	code	VA	code	VA	code	VA
40	0,3									TAR1D 40A	3	TAR1D1 40A	2
50										TAR1D 50A	3	TAR1D1 50A	3
60										TAR1D 60A	3	TAR1D1 60A	3
80										TAR1D 80A	3	TAR1D1 80A	3
100													
150		TAR1D 150A	3	TAR1D1 150A	3	TAR1D 100A	3	TAR1D1 100A	3				
200		TAR1D 200A	3	TAR1D1 200A	3								
250	TAR1D 250A	5	TAR1D1 250A	5									

## TAR3D

- Transformer suitable for primary current by cable with maximum diameter 21mm or by horizontal bar 20x10 - 30x10 mm; vertical bar 20x10 mm
- Fixing system:
  - to wall or to DIN rail by accessories
  - directly to cable or bus bar by screws
 the accessories and the screws are supplied together with the current transformer

- The short circuit on terminals or the connection to earth can be achieved by the double fast-on or connecting two wires on the same terminal
- Sealable terminals cover included
- Different characteristics on request

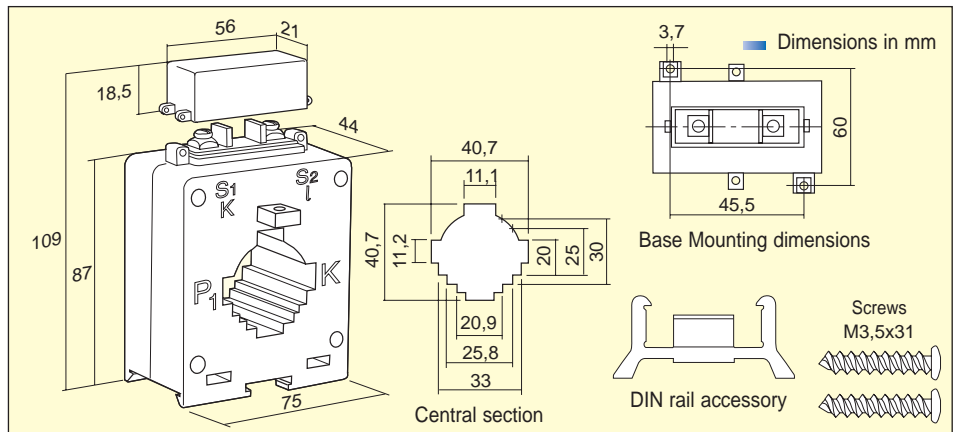


A	Kg	class 0,5				class 1				class 3	
		secondary current 5A		secondary current 1A		secondary current 5A		secondary current 1A		secondary current 5A	
		code	VA	code	VA	code	VA	code	VA	code	VA
40	0,3									TAR3D 40A	2
50										TAR3D 50A	2
60										TAR3D 60A	2
80										TAR3D 80A	3
100						TAR3D 100A	3	TAR3D1 100A	3		
150		TAR3D 150A	3	TAR3D1 150A	3						
200		TAR3D 200A	3	TAR3D1 200A	3						
250		TAR3D 250A	5	TAR3D1 250A	5						
300		TAR3D 300A	5	TAR3D1 300A	5						
400		TAR3D 400A	6	TAR3D1 400A	6						
500	TAR3D 500A	6	TAR3D1 500A	6							
600	TAR3D 600A	6	TAR3D1 600A	6							

## TAR4D

- Transformer suitable for primary current by cable with maximum diameter 32mm or by horizontal bar 25x20 - 30x25 - 40x10; vertical bar 20x25 - 30x20 - 40x10 mm
- Fixing system:
  - to wall or to DIN rail by accessories
  - directly to cable or bus bar by screws
 the accessory and the screws are supplied together with the current transformer

- The short circuit on terminals or the connection to earth can be achieved by the double fast-on or connecting two wires on the same terminal
- Sealable terminals cover included
- Different characteristics on request



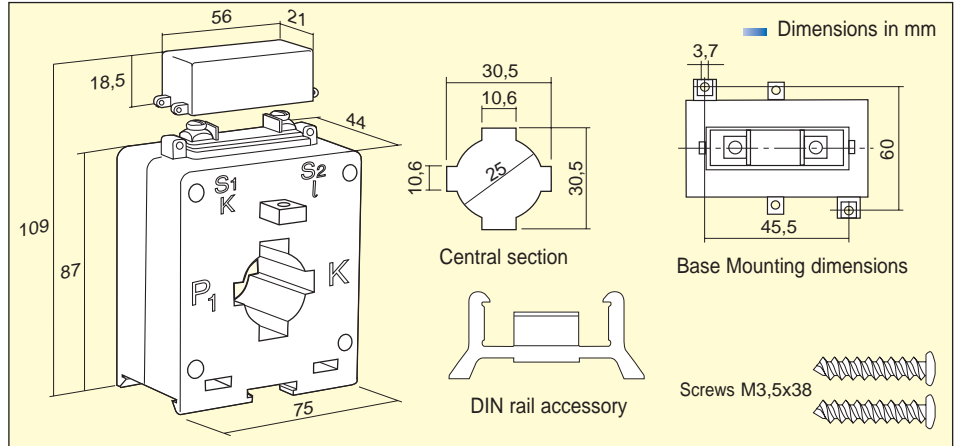
A	Kg	class 0,5				class 1				class 0,2 S	
		secondary current 5A		secondary current 1A		secondary current 5A		secondary current 1A		secondary current 5A	
		code	VA	code	VA	code	VA	code	VA	code	VA
100	0,4					TAR4D 100A	3	TAR4D1 100A	3		
150						TAR4D 150A	3	TAR4D1 150A	3		
200		TAR4D 200A	4	TAR4D1 200A	4						
250		TAR4D 250A	6	TAR4D1 250A	6						
300		TAR4D 300A	6	TAR4D1 300A	6						
400		TAR4D 400A	10	TAR4D1 400A	10						
500		TAR4D 500A	10	TAR4D1 500A	10						
600		TAR4D 600A	10	TAR4D1 600A	10						
800		TAR4D 800A	10	TAR4D1 800A	10						
1000		TAR4D 1K0A	10	TAR4D1 1K0A	10						
										TAR4D 300A 0.2S	2
										TAR4D 400A 0.2S	3

## TAR4D3

- Transformer suitable for primary current by cable with maximum diameter 25mm or by horizontal bar 30x10 mm; vertical bar 30x10 mm
- Fixing system:
  - to wall or DIN rail by accessories
  - directly to cable or bus bar by screws
 the accessories and the screws are supplied together with the current transformer



- The short circuit on terminals or the connection to earth can be achieved by the double fast-on or connecting two wires on the same terminal
- Sealable terminals cover included
- Different characteristics on request



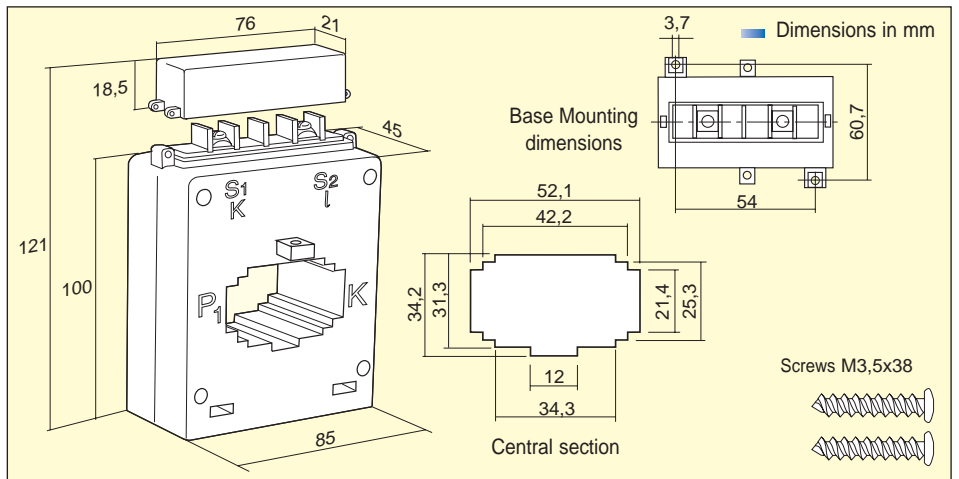
A	Kg	class 0,5				class 0,2		class 0,2 S	
		secondary current 5A		secondary current 1A		secondary current 5A		secondary current 5A	
		code	VA	code	VA	code	VA	code	VA
100	0,7	TAR4D3 100A	3	TAR4D31 100A	3			TAR4D3 100A 0.2S	1,5
125							TAR4D3 125A 0.2S	1,5	
150		TAR4D3 150A	5	TAR4D31 150A	5		TAR4D3 150A 0.2S	1,5	
200		TAR4D3 200A	6	TAR4D31 200A	6		TAR4D3 200A 0.2S	1,5	
250		TAR4D3 250A	10	TAR4D31 250A	10		TAR4D3 250A 0.2S	1,5	
300		TAR4D3 300A	10	TAR4D31 300A	10		TAR4D3 300A 0.2S	1,5	
400		TAR4D3 400A	10	TAR4D31 400A	10		TAR4D3 400A 0.2S	1,5	
500		TAR4D3 500A	10	TAR4D31 500A	10		TAR4D3 500A 0.2S	1,5	
600		TAR4D3 600A	10	TAR4D31 600A	10		TAR4D3 600A 0.2S	1,5	

## TAR5

- Transformer suitable for primary current by cable with maximum diameter 30 mm or by horizontal bar 30x30 - 40x25 - 50x20 mm; vertical bar 30x10 mm
- Fixing system:
  - to wall or DIN rail by accessories
  - directly to cable or bus bar by screws
 the accessory and the screws are supplied together with the current transformer



- The short circuit on terminals or the connection to earth can be achieved by the double fast-on or connecting two wires on the same terminal
- Sealable terminals cover included
- Different characteristics on request



A	Kg	class 0,5				class 1				class 0,2 S	
		secondary current 5A		secondary current 1A		secondary current 5A		secondary current 1A		secondary current 5A	
		code	VA	code	VA	code	VA	code	VA	code	VA
200	0,5					TAR5 200A	4	TAR51 200A	4		
250		TAR5 250A	3	TAR51 250A	3						
300		TAR5 300A	4	TAR51 300A	4						
400		TAR5 400A	6	TAR51 400A	6						
500		TAR5 500A	10	TAR51 500A	10						
600		TAR5 600A	10	TAR51 600A	10						
800		TAR5 800A	10	TAR51 800A	10						
1000		TAR5 1K0A	10	TAR51 1K0A	10						
1200		TAR5 1K2A	10	TAR51 1K2A	10						
1500		TAR5 1K5A	20	TAR51 1K5A	20						TAR5 500A 0.2S
										TAR5 600A 0.2S	5



## TAR6

Transformer suitable for primary current by cable with maximum diameter 50mm or by horizontal bar 50x20 - 60x20 mm

Fixing system:

- to wall by accessories  
- directly to cable or bus bar by screws  
the accessories and the screws are supplied together with the current transformer

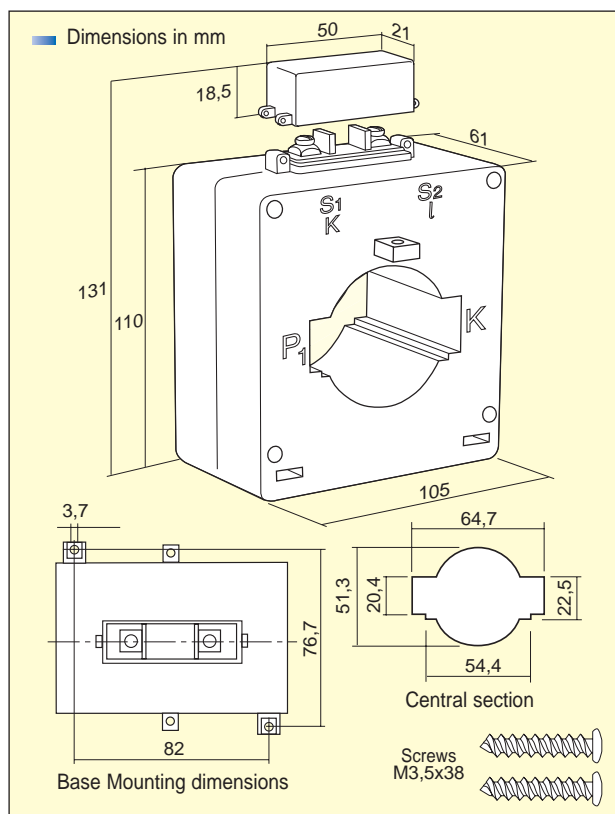
The short circuit on terminals or the connection to earth can be achieved by the double fast-on or connecting two wires on the same terminal

Sealable terminals cover included  
Different characteristics on request



A	Kg	class 0,5			
primary current	medium weight	secondary current 5A		secondary current 1A	
		code	VA	code	VA
250	1	TAR6 250A	5	TAR61 250A	5
300		TAR6 300A	5	TAR61 300A	5
400		TAR6 400A	6	TAR61 400A	6
500		TAR6 500A	6	TAR61 500A	6
600	0,7	TAR6 600A	10	TAR61 600A	10
800		TAR6 800A	10	TAR61 800A	10
1000	0,8	TAR6 1K0A	20	TAR61 1K0A	20
1200		TAR6 1K2A	20	TAR61 1K2A	20
1500	1	TAR6 1K5A	30	TAR61 1K5A	30
2000		TAR6 2K0A	30	TAR61 2K0A	30
2500		TAR6 2K5A	30	TAR61 2K5A	30

class 0,2	
secondary current 5A	
code	VA
TAR6 400A 0.2	5
TAR6 500A 0.2	5
TAR6 600A 0.2	5
TAR6 800A 0.2	5
TAR6 1K0A 0.2	5



## TAR8

Transformer suitable for primary current by two cables with maximum diameter 30mm each or by horizontal bar 60x30 - 80x30 mm



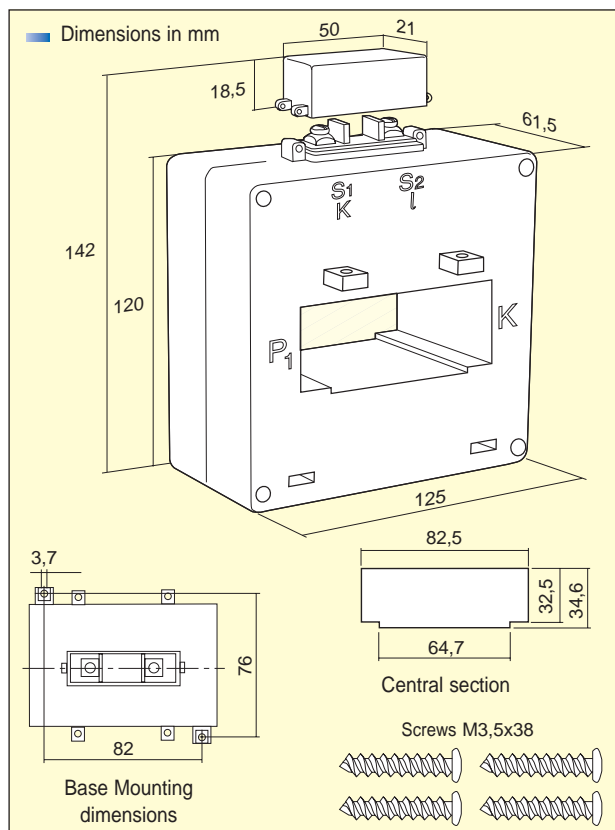
Fixing system: directly to cable or bus bar by screws supplied together with the current transformer

The short circuit on terminals or the connection to earth can be achieved by the double fast-on or connecting two wires on the same terminal

Sealable terminals cover included  
Different characteristics on request

A	Kg	class 0,5			
primary current	medium weight	secondary current 5A		secondary current 1A	
		code	VA	code	VA
300	0,8	TAR8 300A	5	TAR81 300A	5
400		TAR8 400A	6	TAR81 400A	6
500	1	TAR8 500A	10	TAR81 500A	10
600		TAR8 600A	10	TAR81 600A	10
800	0,7	TAR8 800A	10	TAR81 800A	10
1000		TAR8 1K0A	10	TAR81 1K0A	10
1200	1	TAR8 1K2A	15	TAR81 1K2A	15
1500		TAR8 1K5A	20	TAR81 1K5A	20
2000	1,5	TAR8 2K0A	20	TAR81 2K0A	20
2500		TAR8 2K5A	20	TAR81 2K5A	20
3000		TAR8 3K0A	20	TAR81 3K0A	20

class 0,2 S	
secondary current 5A	
code	VA
TAR8 800A 0.2S	7,5
TAR8 1K0A 0.2S	10
TAR8 1K2A 0.2S	10
TAR8 1K5A 0.2S	10
TAR8 2K0A 0.2S	10



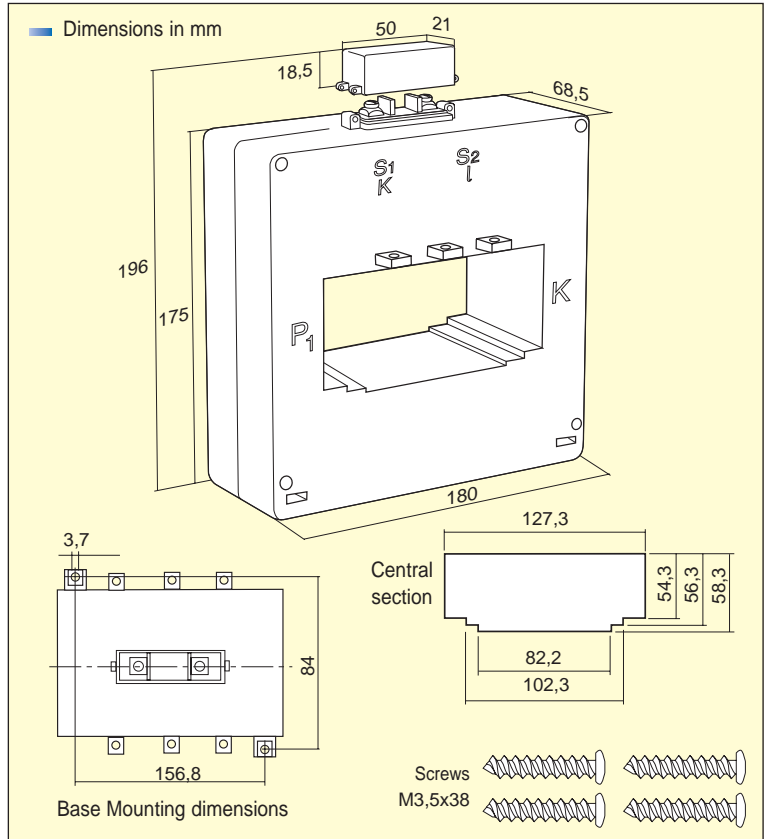
## TAR12

- Transformer suitable for primary current by two cables with maximum diameter 50mm each or by horizontal bar 80x50 - 100x50 - 125x50 mm



- Fixing system: directly to cable or bus bar by screws supplied together with the current transformer
- The short circuit on terminals or the connection to earth can be achieved by the double fast-on or connecting two wires on the same terminal
- Sealable terminals cover included
- Different characteristics on request

A	Kg	class 0,5			
primary current	medium weight	secondary current 5A		secondary current 1A	
		code	VA	code	VA
500	1,5	TAR12 500A	10	TAR121 500A	10
600		TAR12 600A	10	TAR121 600A	10
800		TAR12 800A	15	TAR121 800A	15
1000		TAR12 1K0A	20	TAR121 1K0A	20
1200		TAR12 1K2A	20	TAR121 1K2A	20
1500		TAR12 1K5A	20	TAR121 1K5A	20
2000	1,6	TAR12 2K0A	30	TAR121 2K0A	30
2500		TAR12 2K5A	40	TAR121 2K5A	40
3000		TAR12 3K0A	40	TAR121 3K0A	40
4000		TAR12 4K0A	50	TAR121 4K0A	50



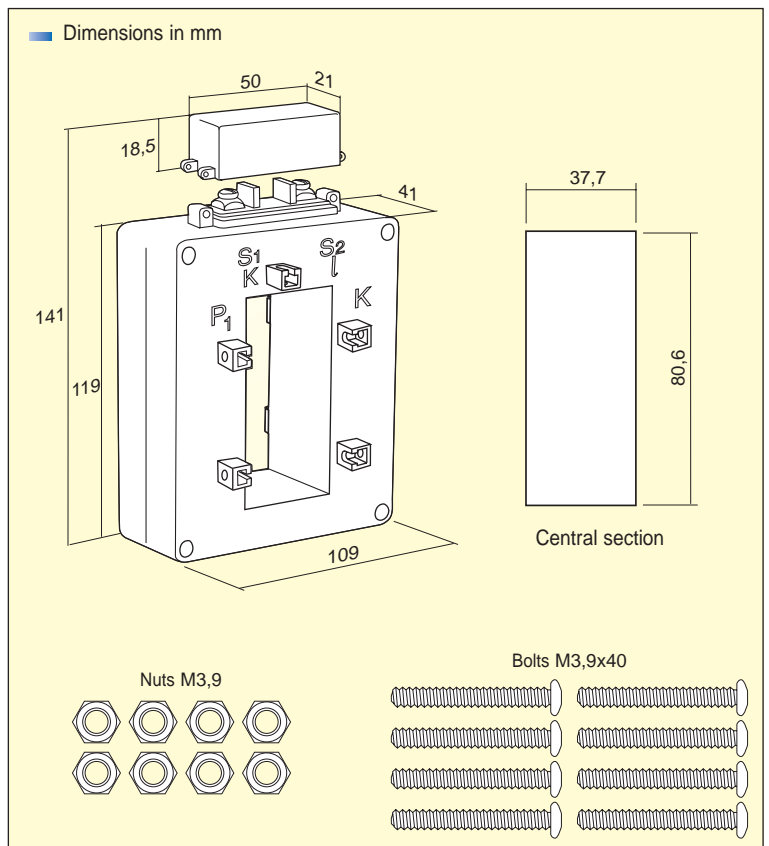
## TAR8V

- Transformer suitable for primary current by two cables with maximum diameter 35mm each or by vertical bar 80x30 - 2x80x5 - 2x80x10 - 3x80x5 mm
- Fixing system: directly to cable or bus bar by bolts supplied together with the current transformer



- The short circuit on terminals or the connection to earth can be achieved by the double fast-on or connecting two wires on the same terminal
- Sealable terminals cover included
- Different characteristics on request

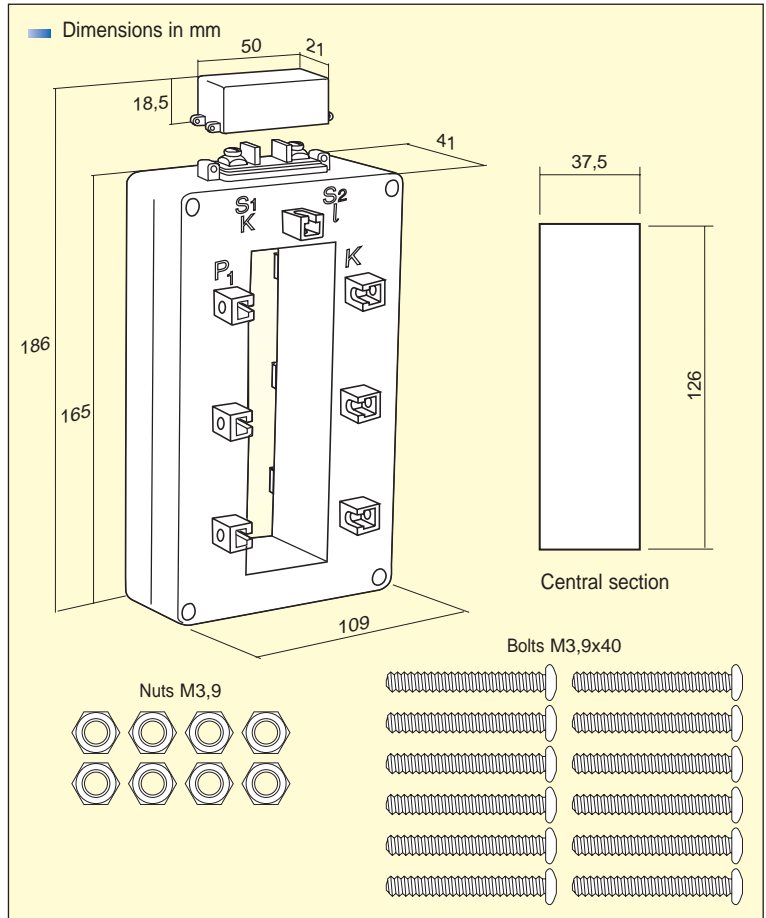
A	Kg	class 0,5			
primary current	medium weight	secondary current 5A		secondary current 1A	
		code	VA	code	VA
400	0,7	TAR8V 400A	6	TAR8V1 400A	6
500		TAR8V 500A	10	TAR8V1 500A	10
600		TAR8V 600A	10	TAR8V1 600A	10
800		TAR8V 800A	10	TAR8V1 800A	10
1000		TAR8V 1K0A	10	TAR8V1 1K0A	10
1200		TAR8V 1K2A	10	TAR8V1 1K2A	10
1500	1	TAR8V 1K5A	10	TAR8V1 1K5A	10
2000		TAR8V 2K0A	20	TAR8V1 2K0A	20
2500		TAR8V 2K5A	20	TAR8V1 2K5A	20



## TAR12V

- Transformer suitable for primary current by three cables with maximum diameter 35mm each or by vertical bar  
100x10 - 2x100x5 - 2x100x10 - 3x100x5 - 3x100x10 - 4x100x5 - 125x30 - 2x125x5 - 3x125x5 - 4x125x5 mm
- Fixing system: directly to cable or bus bar by bolts supplied together with the current transformer

- The short circuit on terminals or the connection to earth can be achieved by the double fast-on or connecting two wires on the same terminal
- Sealable terminals cover included
- Different characteristics on request



A	Kg	class 0,5			
		secondary current 5A		secondary current 1A	
		code	VA	code	VA
primary current	medium weight	TAR12V 800A	10	TAR12V1 800A	10
		TAR12V 1K0A	10	TAR12V1 1K0A	10
		TAR12V 1K2A	10	TAR12V1 1K2A	10
		TAR12V 1K25A	10	TAR12V1 1K25A	10
		TAR12V 1K5A	12	TAR12V1 1K5A	12
		TAR12V 2K0A	15	TAR12V1 2K0A	15
2500	1	TAR12V 2K5A	20	TAR12V1 2K5A	20
		TAR12V 3K0A	20	TAR12V1 3K0A	20
3000	1,3				

# PROTECTION CURRENT TRANSFORMERS LOW VOLTAGE - STANDARD SERIES

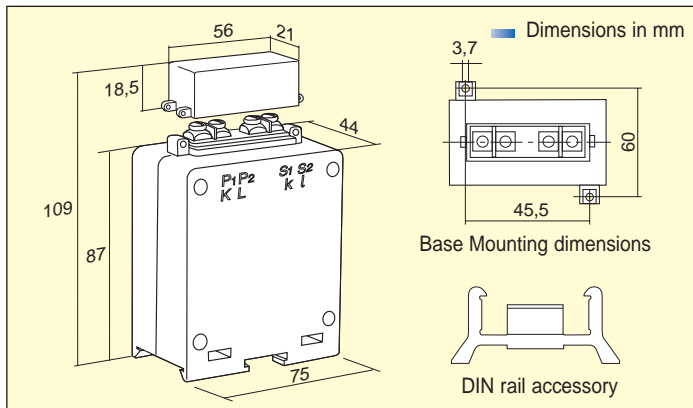
The C.T. when used as a current generator for protection relays has electrical characteristics which differ from those of the measuring transformer. In fact the measuring C.T. is expected to give a saturation of the magnetic circuit with 5P in primary currents while, in the case of protective C.T., it is necessary for the secondary current value to follow the increase in the primary current up to 10-15-20 I<sub>n</sub>, so as to guarantee the intervention of the relay in the case of unforeseen breakdown current. It is important not to load the C.T. with a P performance which is greater than that indicated, so as not to modify the saturation value of the C.T.  $P=R I^2$  where: P= load on the C.T. R= resistance of the relay + resistance of the cables I= nominal secondary current of the C.T.

## TARPD1/P

Transformer with wound primary cable, primary and secondary currents on the terminals

Sealable terminals cover included  
Different characteristics on request

Fixing system: to wall or DIN rail by accessories supplied together with the current transformer

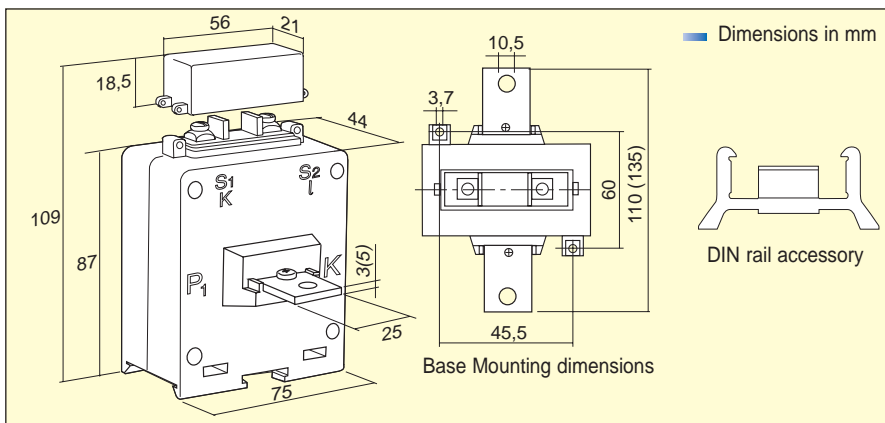


A	Kg	class 5P5				class 5P10			
		secondary current 5A		secondary current 1A		secondary current 5A		secondary current 1A	
		code	VA	code	VA	code	VA	code	VA
5	0.5	TARPD1/P 5A 5P5	4	TARPD11/P 5A 5P5	4	TARPD1/P 5A 5P10	2	TARPD11/P 5A 5P10	2
10		TARPD1/P 10A 5P5	4	TARPD11/P 10A 5P5	4	TARPD1/P 10A 5P10	2	TARPD11/P 10A 5P10	2
15		TARPD1/P 15A 5P5	4	TARPD11/P 15A 5P5	4	TARPD1/P 15A 5P10	2	TARPD11/P 15A 5P10	2
20		TARPD1/P 20A 5P5	4	TARPD11/P 20A 5P5	4	TARPD1/P 20A 5P10	2	TARPD11/P 20A 5P10	2
25		TARPD1/P 25A 5P5	4	TARPD11/P 25A 5P5	4	TARPD1/P 25A 5P10	2	TARPD11/P 25A 5P10	2
30		TARPD1/P 30A 5P5	4	TARPD11/P 30A 5P5	4	TARPD1/P 30A 5P10	2	TARPD11/P 30A 5P10	2
40		TARPD1/P 40A 5P5	4	TARPD11/P 40A 5P5	4	TARPD1/P 40A 5P10	2	TARPD11/P 40A 5P10	2

## TARPD2/P

Transformer with wound primary cable, primary current by central incorporated bar  
25x3 mm up to 300A  
25x5 mm from 400 to 500A  
secondary current on terminals

Fixing system: to wall or DIN rail by accessories supplied together with the current transformer  
Sealable terminals cover included  
Different characteristics on request

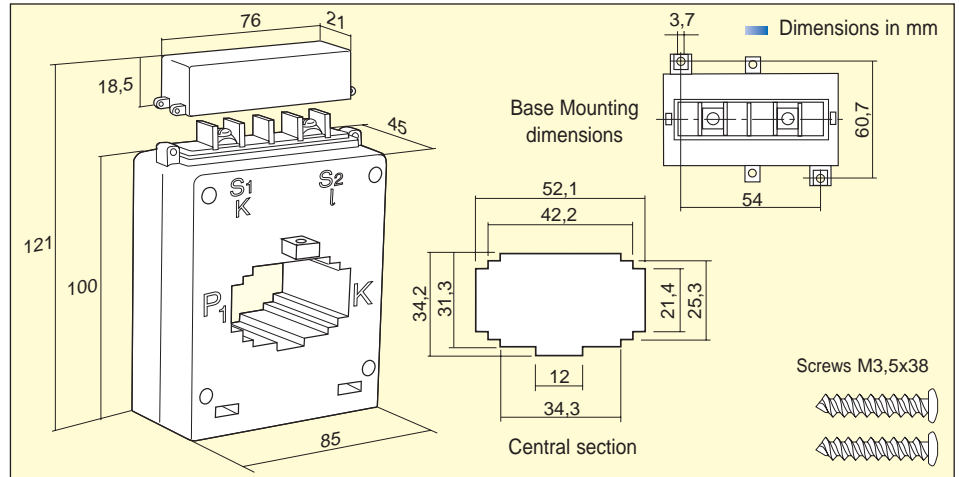


A	Kg	class 5P5				class 5P10			
		secondary current 5A		secondary current 1A		secondary current 5A		secondary current 1A	
		code	VA	code	VA	code	VA	code	VA
50	0.5	TARPD2/P 50A 5P5	4	TARPD21/P 50A 5P5	4	TARPD2/P 50A 5P10	2	TARPD21/P 50A 5P10	2
60		TARPD2/P 60A 5P5	4	TARPD21/P 60A 5P5	4	TARPD2/P 60A 5P10	2	TARPD21/P 60A 5P10	2
80		TARPD2/P 80A 5P5	4	TARPD21/P 80A 5P5	4	TARPD2/P 80A 5P10	2	TARPD21/P 80A 5P10	2
100		TARPD2/P 100A 5P5	4	TARPD21/P 100A 5P5	4	TARPD2/P 100A 5P10	2	TARPD21/P 100A 5P10	2
150		TARPD2/P 150A 5P5	4	TARPD21/P 150A 5P5	4	TARPD2/P 150A 5P10	2	TARPD21/P 150A 5P10	2
200		TARPD2/P 200A 5P5	4	TARPD21/P 200A 5P5	4	TARPD2/P 200A 5P10	2	TARPD21/P 200A 5P10	2
250		TARPD2/P 250A 5P5	4	TARPD21/P 250A 5P5	4	TARPD2/P 250A 5P10	2	TARPD21/P 250A 5P10	2
300		TARPD2/P 300A 5P5	4	TARPD21/P 300A 5P5	4	TARPD2/P 300A 5P10	2	TARPD21/P 300A 5P10	2
400		TARPD2/P 400A 5P5	4	TARPD21/P 400A 5P5	4	TARPD2/P 400A 5P10	2	TARPD21/P 400A 5P10	2
500		TARPD2/P 500A 5P5	4	TARPD21/P 500A 5P5	4	TARPD2/P 500A 5P10	2	TARPD21/P 500A 5P10	2

## TAR5/P

- Transformer suitable for primary current by cable with maximum diameter 30mm or by horizontal bar 30x30 - 40x25 - 50x20 mm; vertical bar 30x10 mm
- Sealable terminals cover included
- Different characteristics on request

- Fixing system: - to wall or DIN rail by accessories  
- directly to cable or bus bar by screws  
the accessory and the screws are supplied together with the current transformer

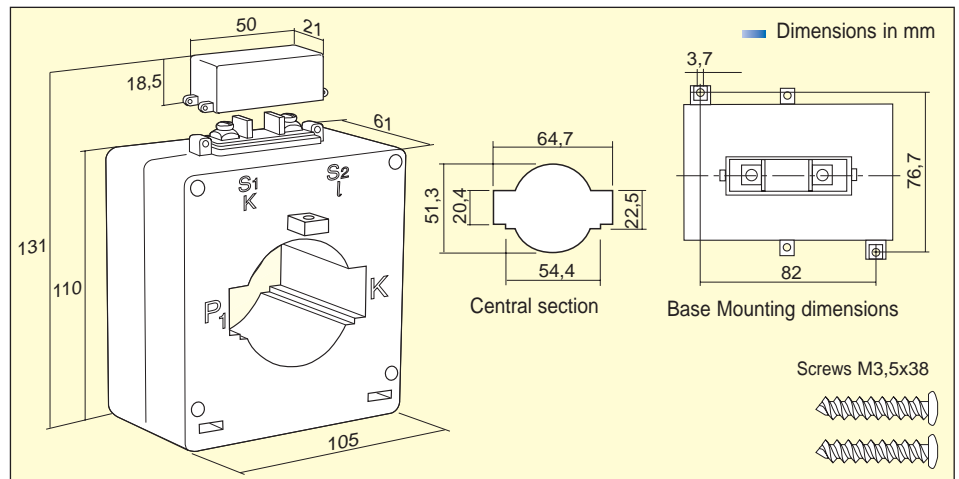


A	Kg	class 5P5				class 5P10			
		secondary current 5A		secondary current 1A		secondary current 5A		secondary current 1A	
		code	VA	code	VA	code	VA	code	VA
250	0,6	TAR5/P 250A 5P5	4	TAR51/P 250A 5P5	4	TAR5/P 250A 5P10	2	TAR51/P 250A 5P10	2
300		TAR5/P 300A 5P5	4	TAR51/P 300A 5P5	4	TAR5/P 300A 5P10	2	TAR51/P 300A 5P10	2
400		TAR5/P 400A 5P5	4	TAR51/P 400A 5P5	4	TAR5/P 400A 5P10	2	TAR51/P 400A 5P10	2
500	0,5	TAR5/P 500A 5P5	4	TAR51/P 500A 5P5	4	TAR5/P 500A 5P10	2	TAR51/P 500A 5P10	2
600		TAR5/P 600A 5P5	4	TAR51/P 600A 5P5	4	TAR5/P 600A 5P10	2	TAR51/P 600A 5P10	2
800		TAR5/P 800A 5P5	4	TAR51/P 800A 5P5	4	TAR5/P 800A 5P10	2	TAR51/P 800A 5P10	2
1000	0,4	TAR5/P 1K0A 5P5	4	TAR51/P 1K0A 5P5	4	TAR5/P 1K0A 5P10	2	TAR51/P 1K0A 5P10	2
1200		TAR5/P 1K2A 5P5	6	TAR51/P 1K2A 5P5	6	TAR5/P 1K2A 5P10	3	TAR51/P 1K2A 5P10	3
1500		TAR5/P 1K5A 5P5	8	TAR51/P 1K5A 5P5	8	TAR5/P 1K5A 5P10	4	TAR51/P 1K5A 5P10	4

## TAR6/P

- Transformer suitable for primary current by cable with maximum diameter 50mm or by horizontal bar 50x20 - 60x20 mm
- Sealable terminals cover included
- Different characteristics on request

- Fixing system: - to wall by accessories  
- directly to cable or bus bar by screws  
the accessories and the screws are supplied together with the current transformer

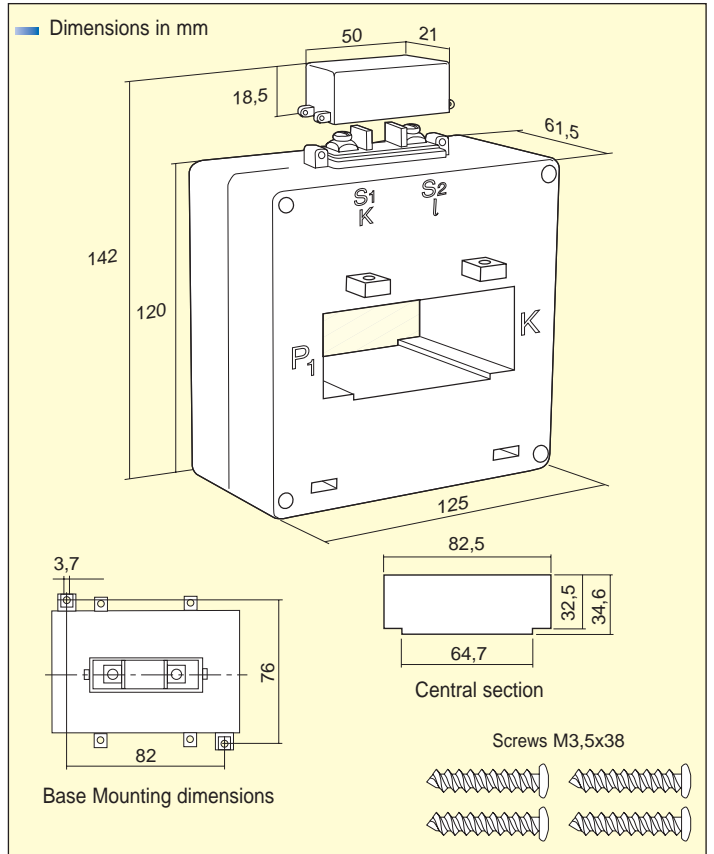


A	Kg	class 5P5				class 5P10			
		secondary current 5A		secondary current 1A		secondary current 5A		secondary current 1A	
		code	VA	code	VA	code	VA	code	VA
250	1	TAR6/P 250A 5P5	6	TAR61/P 250A 5P5	6	TAR6/P 250A 5P10	2	TAR61/P 250A 5P10	2
300		TAR6/P 300A 5P5	6	TAR61/P 300A 5P5	6	TAR6/P 300A 5P10	3	TAR61/P 300A 5P10	3
400		TAR6/P 400A 5P5	10	TAR61/P 400A 5P5	10	TAR6/P 400A 5P10	4	TAR61/P 400A 5P10	4
500	0,7	TAR6/P 500A 5P5	10	TAR61/P 500A 5P5	10	TAR6/P 500A 5P10	4	TAR61/P 500A 5P10	4
600		TAR6/P 600A 5P5	10	TAR61/P 600A 5P5	10	TAR6/P 600A 5P10	4	TAR61/P 600A 5P10	4
800		TAR6/P 800A 5P5	15	TAR61/P 800A 5P5	15	TAR6/P 800A 5P10	5	TAR61/P 800A 5P10	5
1000	0,6	TAR6/P 1K0A 5P5	20	TAR61/P 1K0A 5P5	20	TAR6/P 1K0A 5P10	6	TAR61/P 1K0A 5P10	6
1200		TAR6/P 1K2A 5P5	20	TAR61/P 1K2A 5P5	20	TAR6/P 1K2A 5P10	6	TAR61/P 1K2A 5P10	6
1500		TAR6/P 1K5A 5P5	30	TAR61/P 1K5A 5P5	30	TAR6/P 1K5A 5P10	10	TAR61/P 1K5A 5P10	10

## TAR8/P

- Transformer suitable for primary current by two cables with maximum diameter 30mm each or by horizontal bar 60x30 - 80x30 mm
- Fixing system: directly to cable or bus bar by screws supplied together with the current transformer

- Sealable terminals cover included
- Different characteristics on request

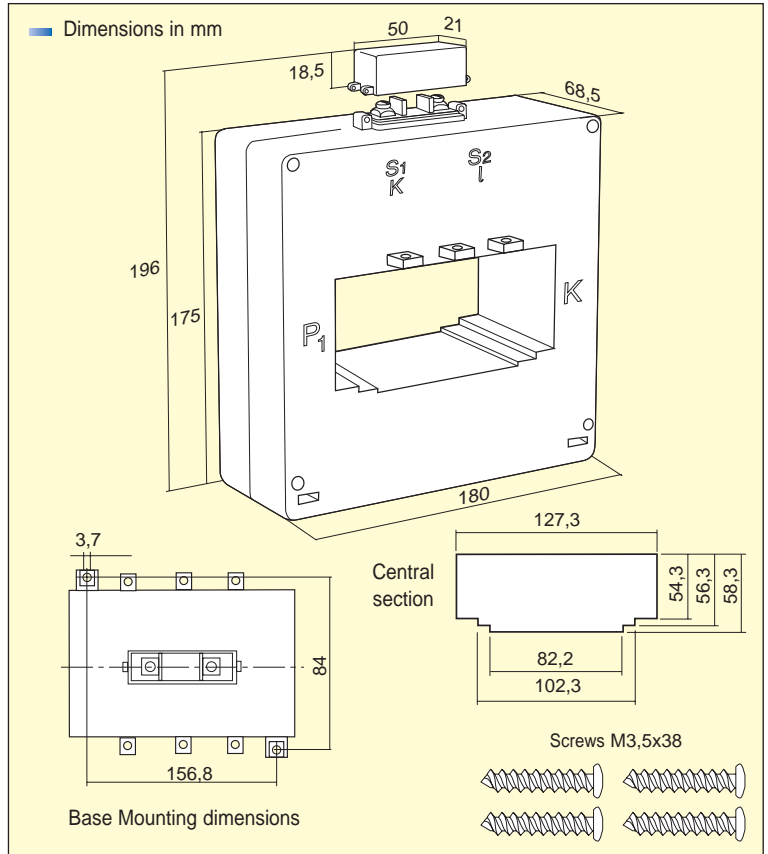


A	Kg	class 5P5				class 5P10			
primary current	medium weight	secondary current 5A		secondary current 1A		secondary current 5A		secondary current 1A	
		code	VA	code	VA	code	VA	code	VA
300	0,7	TAR8/P 300A 5P5	5	TAR81/P 300A 5P5	5	TAR8/P 300A 5P10	3	TAR81/P 300A 5P10	3
400		TAR8/P 400A 5P5	6	TAR81/P 400A 5P5	6	TAR8/P 400A 5P10	3	TAR81/P 400A 5P10	3
500		TAR8/P 500A 5P5	15	TAR81/P 500A 5P5	15	TAR8/P 500A 5P10	8	TAR81/P 500A 5P10	4
600		TAR8/P 600A 5P5	20	TAR81/P 600A 5P5	20	TAR8/P 600A 5P10	8	TAR81/P 600A 5P10	5
800	0,7	TAR8/P 800A 5P5	20	TAR81/P 800A 5P5	20	TAR8/P 800A 5P10	10	TAR81/P 800A 5P10	5
1000		TAR8/P 1K0A 5P5	20	TAR81/P 1K0A 5P5	20	TAR8/P 1K0A 5P10	10	TAR81/P 1K0A 5P10	5
1200	1	TAR8/P 1K2A 5P5	30	TAR81/P 1K2A 5P5	30	TAR8/P 1K2A 5P10	15	TAR81/P 1K2A 5P10	6
1500		TAR8/P 1K5A 5P5	20	TAR81/P 1K5A 5P5	20	TAR8/P 1K5A 5P10	6	TAR81/P 1K5A 5P10	6
2000		TAR8/P 2K0A 5P5	12	TAR81/P 2K0A 5P5	12	TAR8/P 2K0A 5P10	6	TAR81/P 2K0A 5P10	6
2500	1,2	TAR8/P 2K5A 5P5	15	TAR81/P 2K5A 5P5	15	TAR8/P 2K5A 5P10	8	TAR81/P 2K5A 5P10	8

A	Kg	class 5P15				class 5P20			
primary current	medium weight	secondary current 5A		secondary current 1A		secondary current 5A		secondary current 1A	
		code	VA	code	VA	code	VA	code	VA
300	0,7	TAR8/P 300A 5P15	1,5	TAR81/P 300A 5P15	1,5	TAR8/P 300A 5P20	1	TAR81/P 300A 5P20	1
400		TAR8/P 400A 5P15	1,5	TAR81/P 400A 5P15	1,5	TAR8/P 400A 5P20	1	TAR81/P 400A 5P20	1
500	0,9	TAR8/P 500A 5P15	4	TAR81/P 500A 5P15	4	TAR8/P 500A 5P20	2	TAR81/P 500A 5P20	2
600		TAR8/P 600A 5P15	4	TAR81/P 600A 5P15	4	TAR8/P 600A 5P20	2	TAR81/P 600A 5P20	2
800	0,7	TAR8/P 800A 5P15	6	TAR81/P 800A 5P15	6	TAR8/P 800A 5P20	3	TAR81/P 800A 5P20	3
1000		TAR8/P 1K0A 5P15	5	TAR81/P 1K0A 5P15	5	TAR8/P 1K0A 5P20	2	TAR81/P 1K0A 5P20	2
1200	1	TAR8/P 1K2A 5P15	6	TAR81/P 1K2A 5P15	6	TAR8/P 1K2A 5P20	3	TAR81/P 1K2A 5P20	3
1500		TAR8/P 1K5A 5P15	2	TAR81/P 1K5A 5P15	2	TAR8/P 1K5A 5P20	1	TAR81/P 1K5A 5P20	1
2000		TAR8/P 2K0A 5P15	5	TAR81/P 2K0A 5P15	5	TAR8/P 2K0A 5P20	3	TAR81/P 2K0A 5P20	3
2500	1,2	TAR8/P 2K5A 5P15	6	TAR81/P 2K5A 5P15	6	TAR8/P 2K5A 5P20	4	TAR81/P 2K5A 5P20	4

## TAR12/P

- Transformer suitable for primary current by two cables with maximum diameter 50mm each or by horizontal bar 80x50 - 100x50 - 125x50 mm
- Fixing system: directly to cable or bus bar by screws supplied together with the current transformer
- Sealable terminals cover included
- Different characteristics on request



A	Kg	class 5P5				class 5P10			
		secondary current 5A		secondary current 1A		secondary current 5A		secondary current 1A	
		code	VA	code	VA	code	VA	code	VA
400	1,4	TAR12/P 400A 5P5	8	TAR121/P 400A 5P5	8	TAR12/P 400A 5P10	4	TAR121/P 400A 5P10	4
500		TAR12/P 500A 5P5	8	TAR121/P 500A 5P5	8	TAR12/P 500A 5P10	4	TAR121/P 500A 5P10	4
600		TAR12/P 600A 5P5	8	TAR121/P 600A 5P5	8	TAR12/P 600A 5P10	4	TAR121/P 600A 5P10	4
800		TAR12/P 800A 5P5	12	TAR121/P 800A 5P5	12	TAR12/P 800A 5P10	6	TAR121/P 800A 5P10	6
1000	1,45	TAR12/P 1K0A 5P5	15	TAR121/P 1K0A 5P5	15	TAR12/P 1K0A 5P10	8	TAR121/P 1K0A 5P10	8
1200		TAR12/P 1K2A 5P5	20	TAR121/P 1K2A 5P5	20	TAR12/P 1K2A 5P10	10	TAR121/P 1K2A 5P10	10
1500		TAR12/P 1K5A 5P5	20	TAR121/P 1K5A 5P5	20	TAR12/P 1K5A 5P10	10	TAR121/P 1K5A 5P10	10
2000		TAR12/P 2K0A 5P5	25	TAR121/P 2K0A 5P5	25	TAR12/P 2K0A 5P10	12	TAR121/P 2K0A 5P10	12
2500	1,6	TAR12/P 2K5A 5P5	30	TAR121/P 2K5A 5P5	30	TAR12/P 2K5A 5P10	15	TAR121/P 2K5A 5P10	15
3000		TAR12/P 3K0A 5P5	40	TAR121/P 3K0A 5P5	40	TAR12/P 3K0A 5P10	20	TAR121/P 3K0A 5P10	20
4000		TAR12/P 4K0A 5P5	50	TAR121/P 4K0A 5P5	50	TAR12/P 4K0A 5P10	25	TAR121/P 4K0A 5P10	25

A	Kg	class 5P15				class 5P20			
		secondary current 5A		secondary current 1A		secondary current 5A		secondary current 1A	
		code	VA	code	VA	code	VA	code	VA
400	1,4	TAR12/P 400A 5P15	3	TAR121/P 400A 5P15	3	TAR12/P 400A 5P20	2	TAR121/P 400A 5P20	2
500		TAR12/P 500A 5P15	3	TAR121/P 500A 5P15	3	TAR12/P 500A 5P20	2	TAR121/P 500A 5P20	2
600		TAR12/P 600A 5P15	3	TAR121/P 600A 5P15	3	TAR12/P 600A 5P20	2	TAR121/P 600A 5P20	2
800		TAR12/P 800A 5P15	4	TAR121/P 800A 5P15	4	TAR12/P 800A 5P20	3	TAR121/P 800A 5P20	3
1000	1,45	TAR12/P 1K0A 5P15	6	TAR121/P 1K0A 5P15	6	TAR12/P 1K0A 5P20	4	TAR121/P 1K0A 5P20	4
1200		TAR12/P 1K2A 5P15	6	TAR121/P 1K2A 5P15	6	TAR12/P 1K2A 5P20	5	TAR121/P 1K2A 5P20	5
1500		TAR12/P 1K5A 5P15	6	TAR121/P 1K5A 5P15	6	TAR12/P 1K5A 5P20	5	TAR121/P 1K5A 5P20	5
2000		TAR12/P 2K0A 5P15	8	TAR121/P 2K0A 5P15	8	TAR12/P 2K0A 5P20	6	TAR121/P 2K0A 5P20	6
2500	1,6	TAR12/P 2K5A 5P15	10	TAR121/P 2K5A 5P15	10	TAR12/P 2K5A 5P20	8	TAR121/P 2K5A 5P20	8
3000		TAR12/P 3K0A 5P15	15	TAR121/P 3K0A 5P15	15	TAR12/P 3K0A 5P20	10	TAR121/P 3K0A 5P20	10
4000		TAR12/P 4K0A 5P15	15	TAR121/P 4K0A 5P15	15	TAR12/P 4K0A 5P20	12	TAR121/P 4K0A 5P20	12

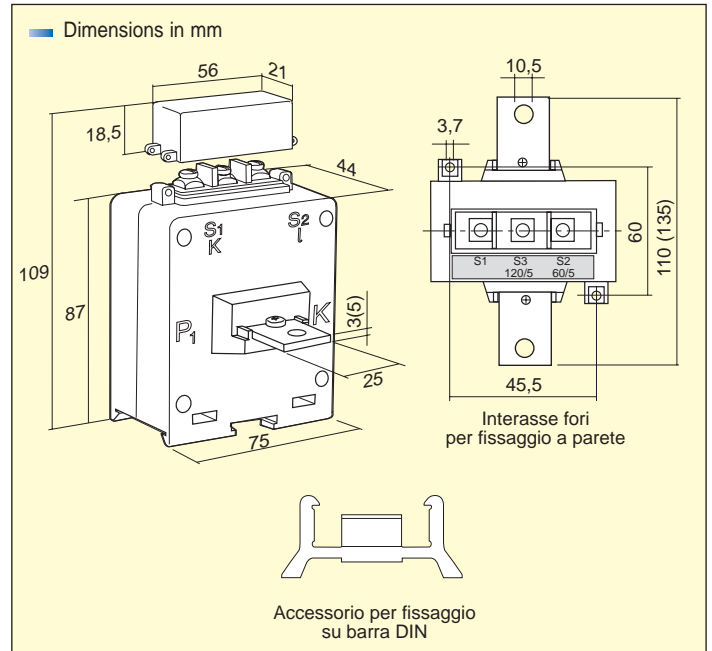
# CURRENT TRANSFORMERS LOW VOLTAGE STANDARD SERIES - DUAL RATIO

## TARPD2/2



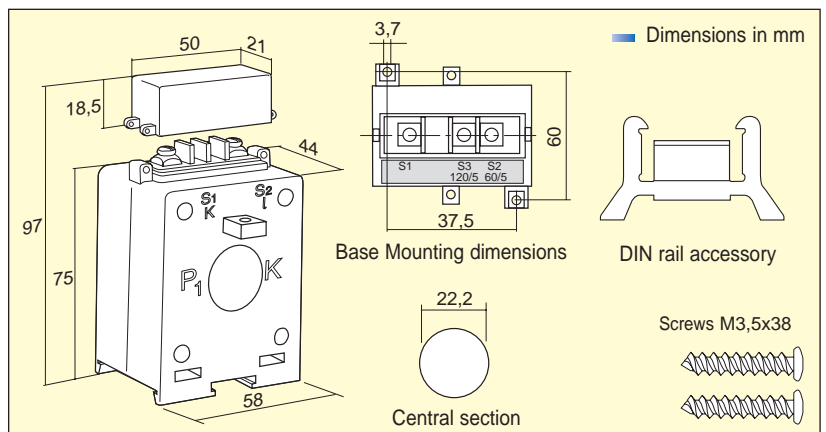
- Transformer with wound primary cable, primary current by central incorporated bar  
25x3 mm up to 300A  
25x5 mm from 400 to 500A  
secondary current on terminals
- Dual ratio on secondary: S1-S2 low value  
S1-S3 high value
- Fixing system: to wall or to DIN rail by accessories supplied together with the current transformer
- Sealable terminals cover included
- Different characteristics on request

A primary current	Kg medium weight	class 0,5			
		secondary current 5A		secondary current 1A	
		code	VA	code	VA
5-10	0,6	TARPD2/2 5-10A	5-15	TARPD21/2 5-10A	5-15
10-20		TARPD2/2 10-20A	5-15	TARPD21/2 10-20A	5-15
15-30		TARPD2/2 15-30A	5-15	TARPD21/2 15-30A	5-15
20-40		TARPD2/2 20-40A	5-15	TARPD21/2 20-40A	5-15
25-50		TARPD2/2 25-50A	5-15	TARPD21/2 25-50A	5-15
30-60		TARPD2/2 30-60A	5-15	TARPD21/2 30-60A	5-15
40-80		TARPD2/2 40-80A	5-15	TARPD21/2 40-80A	5-15
50-100		TARPD2/2 50-100A	5-15	TARPD21/2 50-100A	5-15
60-120		TARPD2/2 60-120A	5-15	TARPD21/2 60-120A	5-15
80-160		TARPD2/2 80-160A	5-15	TARPD21/2 80-160A	5-15
100-200		TARPD2/2 100-200A	5-15	TARPD21/2 100-200A	5-15
150-300		TARPD2/2 150-300A	5-15	TARPD21/2 150-300A	5-15
200-400		TARPD2/2 200-400A	5-15	TARPD21/2 200-400A	5-15
250-500		TARPD2/2 250-500A	5-15	TARPD21/2 250-500A	5-15



## TAR1D/2

- Transformer suitable for primary current by cable with maximum diameter 20mm
- Dual ratio on secondary: S1-S2 low value  
S1-S3 high value
- Sealable terminals cover included
- Different characteristics on request
- Fixing system: - to wall or DIN rail by accessories  
- directly to cable by the accessories and the screws are supplied together with the current transformer



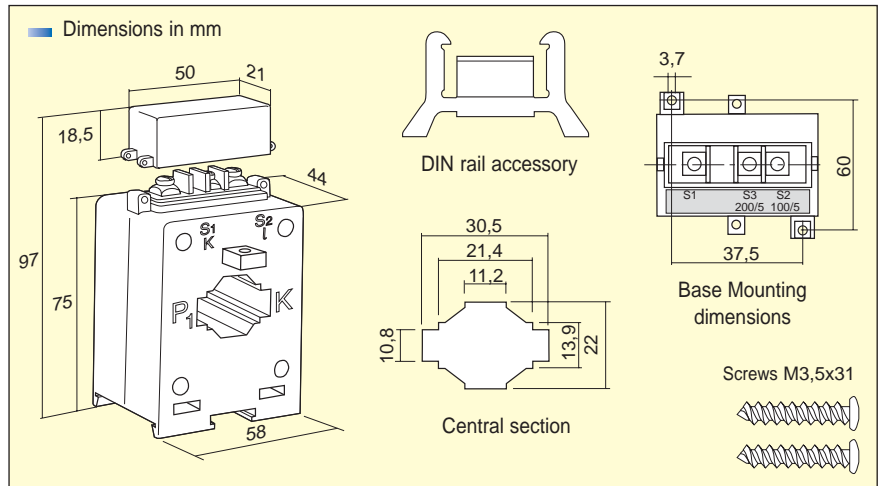
A primary current	Kg medium weight	class 0,5				class 1				class 3				
		secondary current 5A		secondary current 1A		secondary current 5A		secondary current 1A		secondary current 5A		secondary current 1A		
		code	VA	code	VA	code	VA	code	VA	code	VA	code	VA	
40-80	0,3									TAR1D/2 40-80A	3-3	TAR1D1/2 40-80A	3-3	
50-100										TAR1D/2 50-100A	3-3	TAR1D1/2 50-100A	3-3	
60-120										TAR1D/2 60-120A	3-3	TAR1D1/2 60-120A	3-3	
80-160										TAR1D/2 80-160A	3-3	TAR1D1/2 80-160A	3-3	
100-200							TAR1D/2 100-200A	3-6	TAR1D1/2 100-200A	3-6				
150-300			TAR1D/2 150-300A	3-6	TAR1D1/2 150-300A	3-6								
200-400			TAR1D/2 200-400A	3-6	TAR1D1/2 200-400A	3-6								
250-500		TAR1D/2 250-500A	5-10	TAR1D1/2 250-500A	5-10									



## TAR3D/2

- Transformer suitable for primary current by cable with maximum diameter 21mm or by horizontal bar 20x10 - 30x10 mm; vertical bar 20x10 mm
- Dual ratio on secondary: S1-S2 low value  
S1-S3 high value

- Fixing system:
  - to wall or to DIN rail by accessories
  - directly to cable or bus bar by screws
 the accessories and the screws are supplied together with the current transformer
- Sealable terminals cover included
- Different characteristics on request

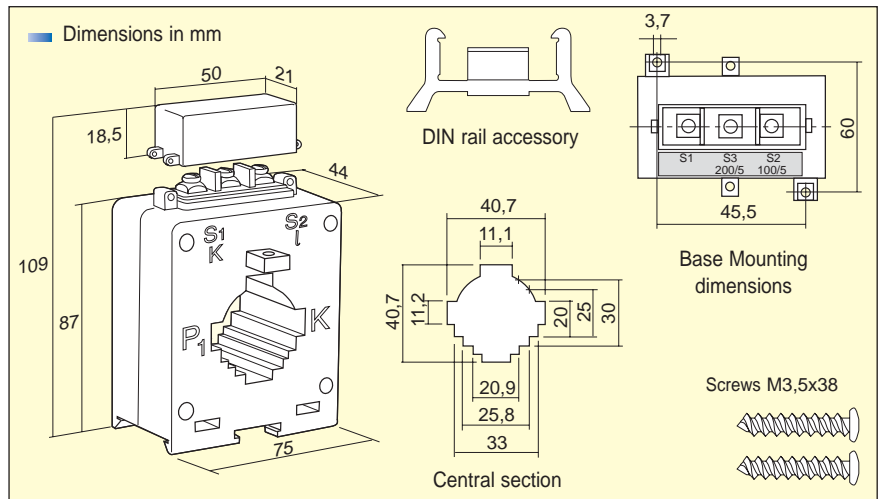


A	Kg	class 0,5				class 1			
		secondary current 5A		secondary current 1A		secondary current 5A		secondary current 1A	
		code	VA	code	VA	code	VA	code	VA
100-200	0,3					TAR3D/2 100-200A	3-6	TAR3D1/2 100-200A	3-6
150-300		TAR3D/2 150-300A	3-6	TAR3D1/2 150-300A	3-6				
200-400		TAR3D/2 200-400A	3-6	TAR3D1/2 200-400A	3-6				
250-500		TAR3D/2 250-500A	5-10	TAR3D1/2 250-500A	5-10				
300-600		TAR3D/2 300-600A	5-10	TAR3D1/2 300-600A	5-10				

## TAR4D/2

- Transformer suitable for primary current by cable with maximum diameter 32mm or by horizontal bar 25x20 - 30x25 - 40x10; vertical bar 20x25 - 30x20 - 40x10 mm
- Dual ratio on secondary: S1-S2 low value  
S1-S3 high value

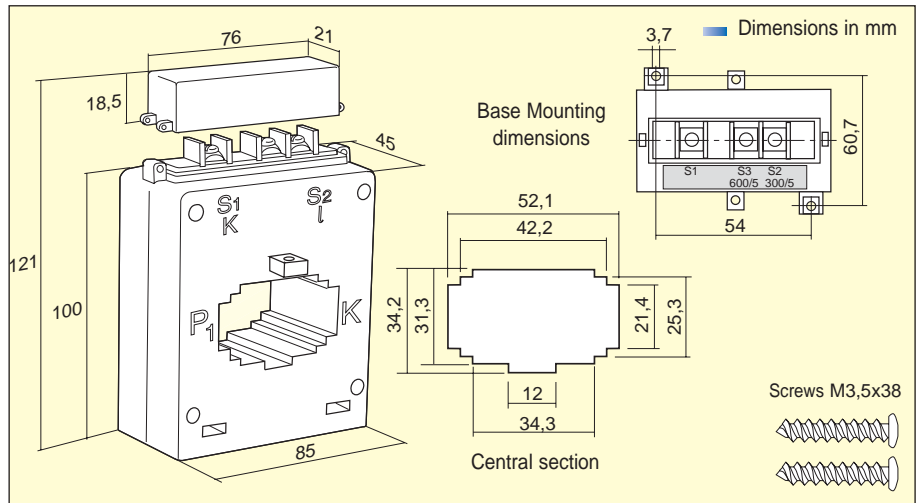
- Fixing system:
  - to wall or DIN rail by accessories
  - directly to cable or bus bar by screws
 the accessory and the screws are supplied together with the current transformer
- Sealable terminals cover included
- Different characteristics on request



A	Kg	class 0,5				class 1			
		secondary current 5A		secondary current 1A		secondary current 5A		secondary current 1A	
		code	VA	code	VA	code	VA	code	VA
100-200	0,5					TAR4D/2 100-200A	3-6	TAR4D1/2 100-200A	3-6
150-300						TAR4D/2 150-300A	3-6	TAR4D1/2 150-300A	3-6
200-400		TAR4D/2 200-400A	4-8	TAR4D1/2 200-400A	4-8				
250-500		TAR4D/2 250-500A	6-10	TAR4D1/2 250-500A	6-10				
300-600		TAR4D/2 300-600A	6-10	TAR4D1/2 300-600A	6-10				
400-800	TAR4D/2 400-800A	6-10	TAR4D1/2 400-800A	6-10					

## TAR5/2

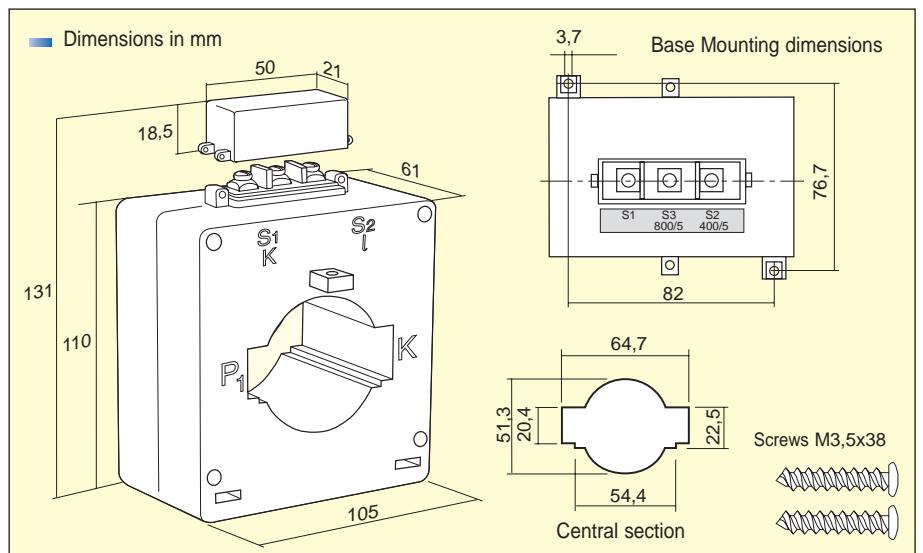
- Transformer suitable for primary current by cable with maximum diameter 30mm or by horizontal bar 30x30 - 40x25 - 50x20 mm; vertical bar 30x10 mm
- Dual ratio on secondary: S1-S2 low value S1-S3 high value
- Fixing system: - to wall or by accessories - directly to cable or bus bar by screws the accessory and the screws are supplied together with the current transformer
- Sealable terminals cover included
- Different characteristics on request



A	Kg	class 0,5				class 1			
		secondary current 5A		secondary current 1A		secondary current 5A		secondary current 1A	
		code	VA	code	VA	code	VA	code	VA
200-400	0,6	TAR5/2 250-500A	4-6	TAR51/2 250-500A	4-6	TAR5/2 200-400A	4-6	TAR51/2 200-400A	4-6
250-500		TAR5/2 300-600A	4-8	TAR51/2 300-600A	4-8				
300-600		TAR5/2 400-800A	6-10	TAR51/2 400-800A	6-10				
400-800	0,4	TAR5/2 500-1K0A	6-10	TAR51/2 500-1K0A	6-10				
500-1000									

## TAR6/2

- Transformer suitable for primary current by cable with maximum diameter 50mm or by horizontal bar 50x20 - 60x20 mm
- Dual ratio on secondary: S1-S2 low value S1-S3 high value
- Fissaggio: - to wall by accessories - directly to cable or bus bar by screws the accessories and the screws are supplied together with the current transformer
- Sealable terminals cover included
- Different characteristics on request

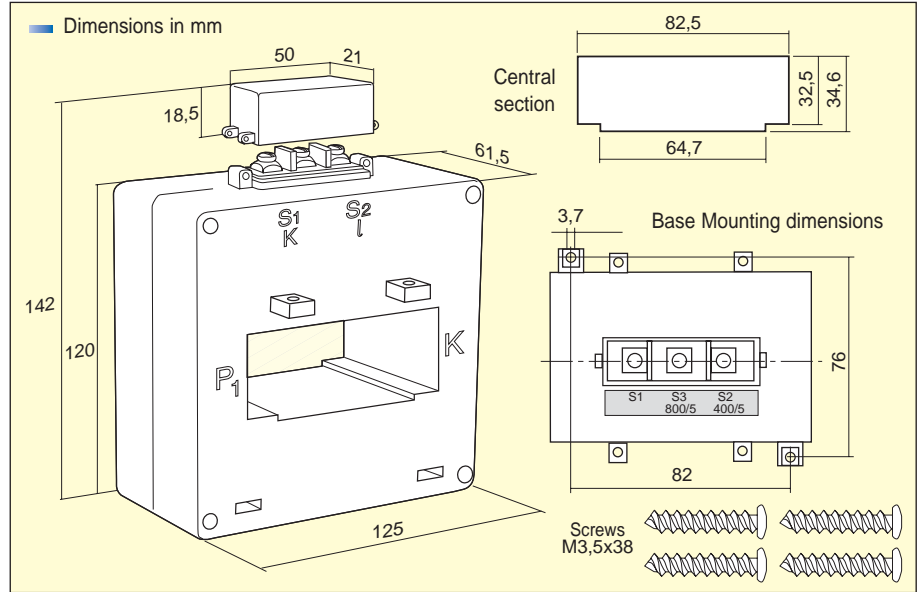


A	Kg	class 0,5			
		secondary current 5A		secondary current 1A	
		code	VA	code	VA
250-500	1,3	TAR6/2 250-500A	5-10	TAR61/2 250-500A	5-10
300-600		TAR6/2 300-600A	5-10	TAR61/2 300-600A	5-10
400-800		TAR6/2 400-800A	6-12	TAR61/2 400-800A	6-12
500-1000		TAR6/2 500-1K0A	10-20	TAR61/2 500-1K0A	10-20
600-1200	1	TAR6/2 600-1K2A	10-20	TAR61/2 600-1K2A	10-20
800-1600		TAR6/2 800-1K6A	10-20	TAR61/2 800-1K6A	10-20
1000-2000		TAR6/2 1K0-2K0A	10-20	TAR61/2 1K0-2K0A	10-20

## TAR8/2

- Transformer suitable for primary current by two cables with maximum diameter 30mm each or by horizontal bar 60x30 - 80x30 mm
- Dual ratio on secondary: S1-S2 low value  
S1-S3 high value

- Fixing system: directly to cable or bus bar by screws supplied together with the current transformer
- Sealable terminals cover included
- Different characteristics on request

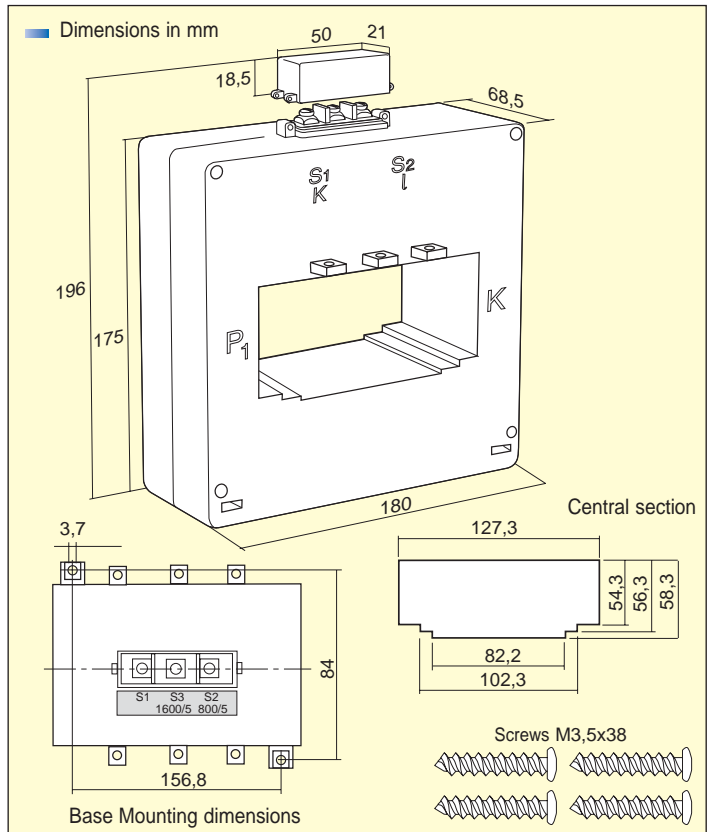


A	Kg	class 0,5			
primary current	medium weight	secondary current 5A		secondary current 1A	
		code	VA	code	VA
400-800	1,2	TAR8/2 400-800A	6-12	TAR81/2 400-800A	6-12
500-1000		TAR8/2 500-1K0A	10-20	TAR81/2 500-1K0A	10-20
600-1200		TAR8/2 600-1K2A	10-20	TAR81/2 600-1K2A	10-20
800-1600		TAR8/2 800-1K6A	10-20	TAR81/2 800-1K6A	10-20
1000-2000		TAR8/2 1K0-2K0A	10-20	TAR81/2 1K0-2K0A	10-20
1200-2400	1,5	TAR8/2 1K2-2K4A	15-30	TAR81/2 1K2-2K4A	15-30
1500-3000		TAR8/2 1K5-3K0A	20-40	TAR81/2 1K5-3K0A	20-40

## TAR12/2

- Transformer suitable for primary current by two cables with maximum diameter 50mm each or by horizontal bar 80x50 - 100x50 - 125x50 mm
- Dual ratio on secondary: S1-S2 low value  
S1-S3 high value

- Fixing system: directly to cable or bus bar by screws supplied together with the current transformer
- Sealable terminals cover included
- Different characteristics on request



A	Kg	class 0,5			
primary current	medium weight	secondary current 5A		secondary current 1A	
		code	VA	code	VA
800-1600	1,5	TAR12/2 800-1K6A	15-30	TAR121/2 800-1K6A	15-30
1000-2000		TAR12/2 1K0-2K0A	20-40	TAR121/2 1K0-2K0A	20-40
1200-2400		TAR12/2 1K2-2K4A	20-40	TAR121/2 1K2-2K4A	20-40
1500-3000	2	TAR12/2 1K5-3K0A	20-40	TAR121/2 1K5-3K0A	20-40
2000-4000		TAR12/2 2K0-4K0A	30-60	TAR121/2 2K0-4K0A	30-60

# CURRENT TRANSFORMERS LOW VOLTAGE STANDARD SERIES - DC OUTPUT

## TMAPD1

- Transformer with wound primary cable, primary and secondary currents on the terminals
- Fixing system: to wall or DIN rail by accessories supplied together with the current transformer
- Auxiliary power supply 20.....30VDC
- Secondary current 4/20mA
- Class 1
- Resistive load 500 ohm
- Testing voltage: 0,72kV/3kV
- Frequency 50Hz
- Sealable terminals cover included
- Different characteristics on request



A	Kg	class 1
primary current	medium weight	secondary current 4/20mA
		code
1	0,5	TMAPD1-1/4-20MA
5		TMAPD1-5/4-20MA
10		TMAPD1-10/4-20MA
15		TMAPD1-15/4-20MA
20		TMAPD1-20/4-20MA
25		TMAPD1-25/4-20MA
40	TMAPD1-40/4-20MA	

■ Dimensions in mm

Base Mounting dimensions

■ Connection diagram

If also a reading instruments must be used, connect it in serie to the PLC

## TMAPD2

- Transformer with wound primary cable, primary current by central incorporated bar 25x3 mm up to 300A 25x5 mm from 400 to 500A secondary current on terminals
- Fixing system: to wall or DIN rail by accessories supplied together with the current transformer
- Auxiliary power supply 20.....30VDC
- Secondary current 4/20mA
- Class 1
- Resistive load 500 ohm
- Testing voltage: 0,72kV/3kV
- Frequency 50Hz
- Sealable terminals cover included
- Different characteristics on request



A	Kg	class 1
primary current	medium weight	secondary current 4/20mA
		code
50	0,5	TMAPD2-50/4-20MA
60		TMAPD2-60/4-20MA
80		TMAPD2-80/4-20MA

■ Dimensions in mm

Base Mounting dimensions

■ Connection diagram

If also a reading instruments must be used, connect it in serie to the PLC

## TMA4D3

- Transformer suitable for primary current by cable with maximum diameter 25mm or bar horizontal 30x10 mm; vertical 30x10 mm
- Auxiliary power supply 20.....30VDC
- Secondary current 4/20mA

- Fixing system:
  - to wall or DIN rail by accessories
  - directly to cable or busbar by screws
- accessories and screws are supplied together with the current transformers
- Class 1

- Resistive load 500 ohm
- Testing voltage: 0,72kV/3kV
- Frequency 50Hz
- Sealable terminals cover included
- Different characteristics on request



A	Kg	class 1
primary current	medium weight	secondary current 4/20mA
		code
50	0,7	TMA4D3-50/4-20MA
60		TMA4D3-60/4-20MA
80		TMA4D3-80/4-20MA
100		TMA4D3-100/4-20MA
150		TMA4D3-150/4-20MA
200		TMA4D3-200/4-20MA
250		TMA4D3-250/4-20MA
300		TMA4D3-300/4-20MA
400		TMA4D3-400/4-20MA
500		TMA4D3-500/4-20MA

**Dimensions in mm**

**Base Mounting dimensions**

**Central section**

**DIN rail accessory**

**Connection diagram**

If also a reading instruments must be used, connect it in serie to the PLC

Screws M3,5x38

## TMA5

- Transformer suitable for primary current by cable with maximum diameter 30mm or bus bar: horizontal 30x30 - 40x25 - 50x20 mm; vertical 30x10 mm
- Auxiliary power supply 20.....30VDC
- Fixing system:
  - to wall by accessories
  - directly to cable or bus bar by screws
- accessories and screws are supplied together with the current transformer

- Secondary current 4/20mA
- Class 1
- Resistive load 500 ohm
- Testing voltage: 0,72kV/3kV
- Frequency 50Hz
- Sealable terminals cover included
- Different characteristics on request



A	Kg	class 1
primary current	medium weight	secondary current 4/20mA
		code
100	0,5	TMA5-100/4-20MA
150		TMA5-150/4-20MA
200		TMA5-200/4-20MA
250		TMA5-250/4-20MA
300		TMA5-300/4-20MA
400		TMA5-400/4-20MA
500		TMA5-500/4-20MA
600		TMA5-600/4-20MA
800		TMA5-800/4-20MA
1000		TMA5-1K0/4-20MA
1200	0,4	TMA5-1K2/4-20MA
1500		TMA5-1K5/4-20MA

**Dimensions in mm**

**Central section**

**Base Mounting dimensions**

**Connection diagram**

Nel caso si volesse utilizzare anche uno strumento lettore, collegarlo in serie al PLC

Screws M3,5x38

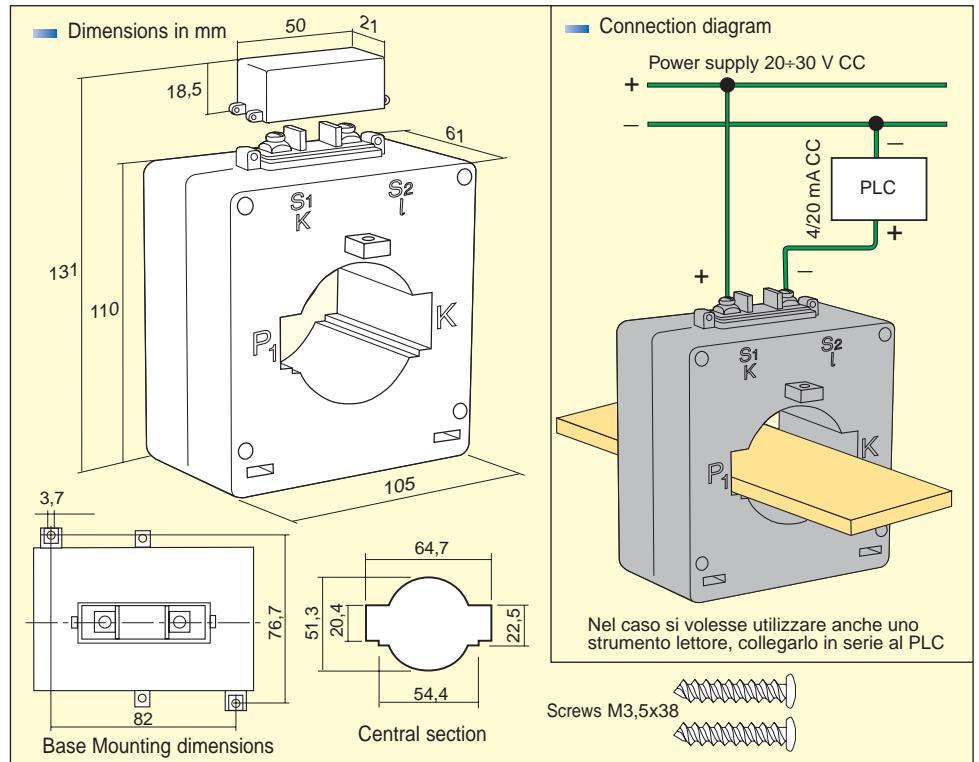
## TMA6



- Transformer suitable for primary current by cable with maximum diameter 50mm or horizontal bus bar 50x20 - 60x20 mm
- Auxiliary power supply 20.....30VDC
- Secondary current 4/20mA
- Fixing system:
  - to wall or DIN rail by accessories
  - directly to cable or busbar by screws

- accessories and screws are supplied together with the current transformers
- Class 1
- Resistive load 500 ohm
- Testing voltage: 0,72kV/3kV
- Frequency 50Hz
- Sealable terminals cover included
- Different characteristics on request

A	Kg	class 1
primary current	medium weight	secondary current 4/20mA
		code
250	1	TMA6-250/4-20MA
300		TMA6-300/4-20MA
400		TMA6-400/4-20MA
500		TMA6-500/4-20MA
600		TMA6-600/4-20MA
800	0,7	TMA6-800/4-20MA
1000		TMA6-1K0/4-20MA
1200		TMA6-1K2/4-20MA
1500	0,8	TMA6-1K5/4-20MA
2000		TMA6-2K0/4-20MA
2500		TMA6-2K5/4-20MA



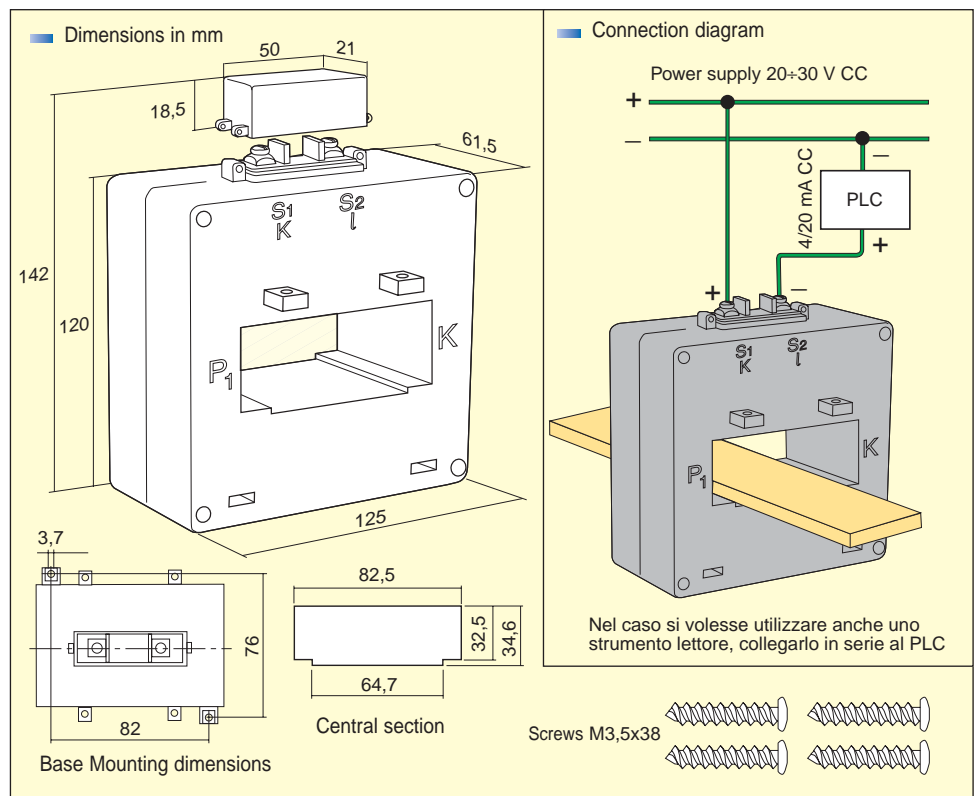
## TMA8



- Transformer suitable for primary current by two cables with maximum diameter 30mm each or horizontal bus bar 60x30 - 80x30 mm
- Fixing system: directly to cable or bus bar by screws supplied together with the current transformer
- Auxiliary power supply 20.....30VDC

- Secondary current 4/20mA
- Class 1
- Resistive load 500 ohm
- Testing voltage: 0,72kV/3kV
- Frequency 50Hz
- Sealable terminals cover included
- Different characteristics on request

A	Kg	class 1
primary current	medium weight	secondary current 4/20mA
		code
400	0,8	TMA8-400/4-20MA
500		TMA8-500/4-20MA
600	1	TMA8-600/4-20MA
800		TMA8-800/4-20MA
1000		TMA8-1K0/4-20MA
1200	0,7	TMA8-1K2/4-20MA
1500		TMA8-1K5/4-20MA
2000	1	TMA8-2K0/4-20MA
2500		TMA8-2K5/4-20MA
3000		TMA8-3K0/4-20MA

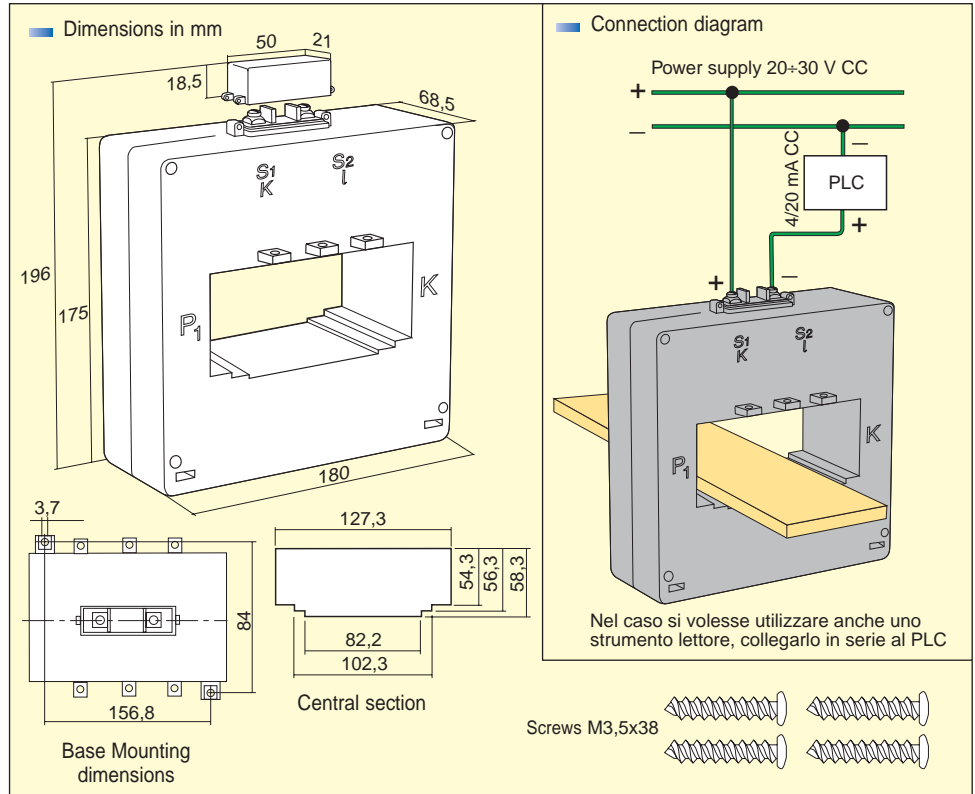


## TMA12



- Transformer suitable for primary current by two cables with maximum diameter 50mm each or horizontal bus bar 80x50 - 100x50 - 125x50 mm
- Fixing system: directly to cable or busbar by screws supplied together with the current transformers
- Auxiliary power supply 20.....30VDC
- Secondary current 4/20mA
- Class 1
- Resistive load 500 ohm
- Testing voltage: 0,72kV/3kV
- Frequency 50Hz
- Sealable terminals cover included
- Different characteristics on request

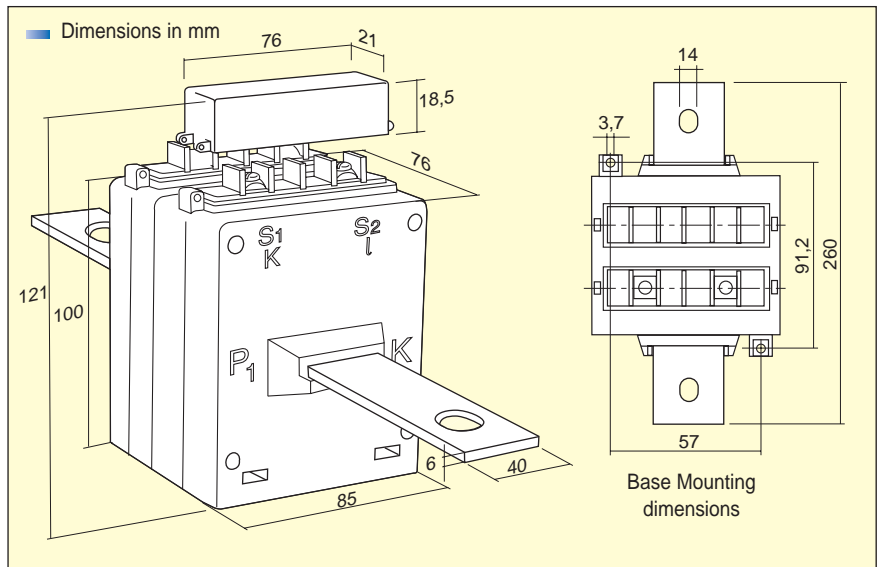
A	Kg	class 1
primary current	medium weight	secondary current 4/20mA
		code
400	1,5	TMA12-400/4-20MA
500		TMA12-500/4-20MA
600		TMA12-600/4-20MA
800		TMA12-800/4-20MA
1000		TMA12-1K0/4-20MA
1200		TMA12-1K2/4-20MA
1500		TMA12-1K5/4-20MA
2000		TMA12-2K0/4-20MA
2500	1,6	TMA12-2K5/4-20MA
3000		TMA12-3K0/4-20MA
4000		TMA12-4K0/4-20MA



## OVERLOAD CURRENT TRANSFORMERS

### TARSV

- Transformer with wound primary cable, primary current by incorporated bus bar and secondary current on terminals.
- Fixing system: to wall by accessories
- Possible overload of 400%



A	Kg	class 0,5			
primary current	medium weight	secondary current 5A		secondary current 1A	
		code	VA	code	VA
50 (200)	1,6	TARSV 50(200)	5	TARSV1 50(200)	5
100 (400)		TARSV 100(400)	5	TARSV1 100(400)	5
200 (800)		TARSV 200(800)	5	TARSV1 200(800)	5

# TOROIDAL CURRENT TRANSFORMERS

## TART

- These transformers are used when it is necessary to survey the homopolar currents (imbalance of current existing on a three phase cable) or in those cases where substantial performance is necessary)
- The dimensions are not pre-determined but calculated each time on the basis of the technical characteristics required
- With passing primary cable
- Running temperature:  $-25^{\circ}\text{C} \div +40^{\circ}\text{C}$ .  
If immersed in oil, the maximum running temperature rises to  $60^{\circ}\text{C}$
- Finished with cotton taping protected with insulating epoxy varnish



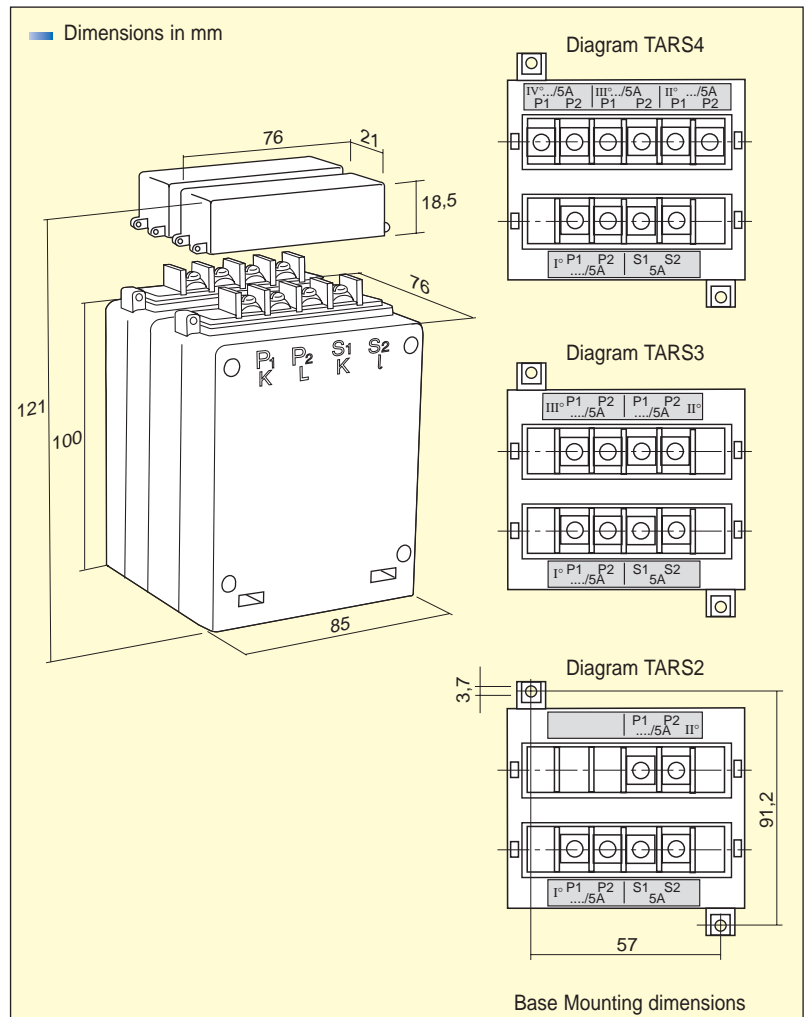
- When ordering, indicate:
  - primary current value (min. 50A)
  - secondary current value (min. 1A)
  - precision class
  - burden (VA)
  - internal diameter
- The external diameter and the thickness are variable according to the above mentioned data
- The insulation between the primary and the secondary cables must be carried out by the client during assembly



# SUMMATION CURRENT TRANSFORMERS

## TARS

- For vectorial summation of the current of several phases in a single voltage system.
- Maximum reference voltage for insulation: 0,72 kV / 3kV
- Fixing system: to wall by accessories supplied together with the current transformer
- If the primary currents have different ratios, specify the ratios when ordering

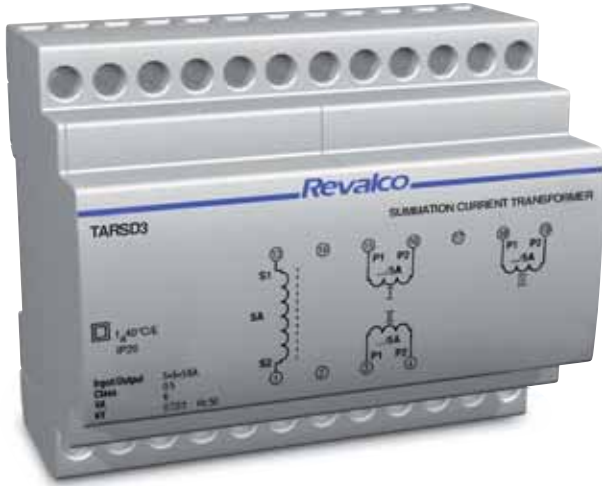


Kg	class 0,5					
	secondary current 5A			secondary current 1A		
	portata	code	VA	portata	code	VA
1	5+5	TARS2	10	1+1	TARS21	10
	5+5+5	TARS3	10	1+1+1	TARS31	10
	5+5+5+5	TARS4	10	1+1+1+1	TARS41	10



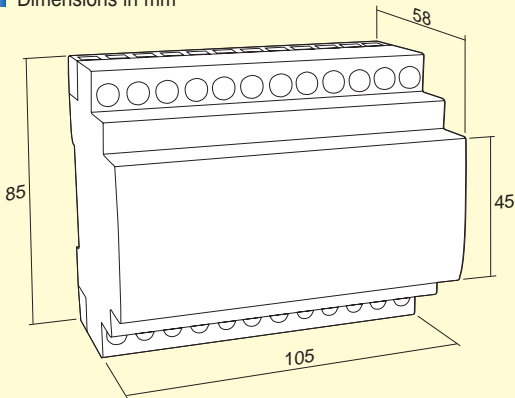
- For vectorial summation of the current of several phases in a single voltage system.
- Maximum reference voltage for insulation: 0,72 kV / 3kV
- Fixing system: to DIN rail

If the primary currents have different ratios, specify the ratios when ordering



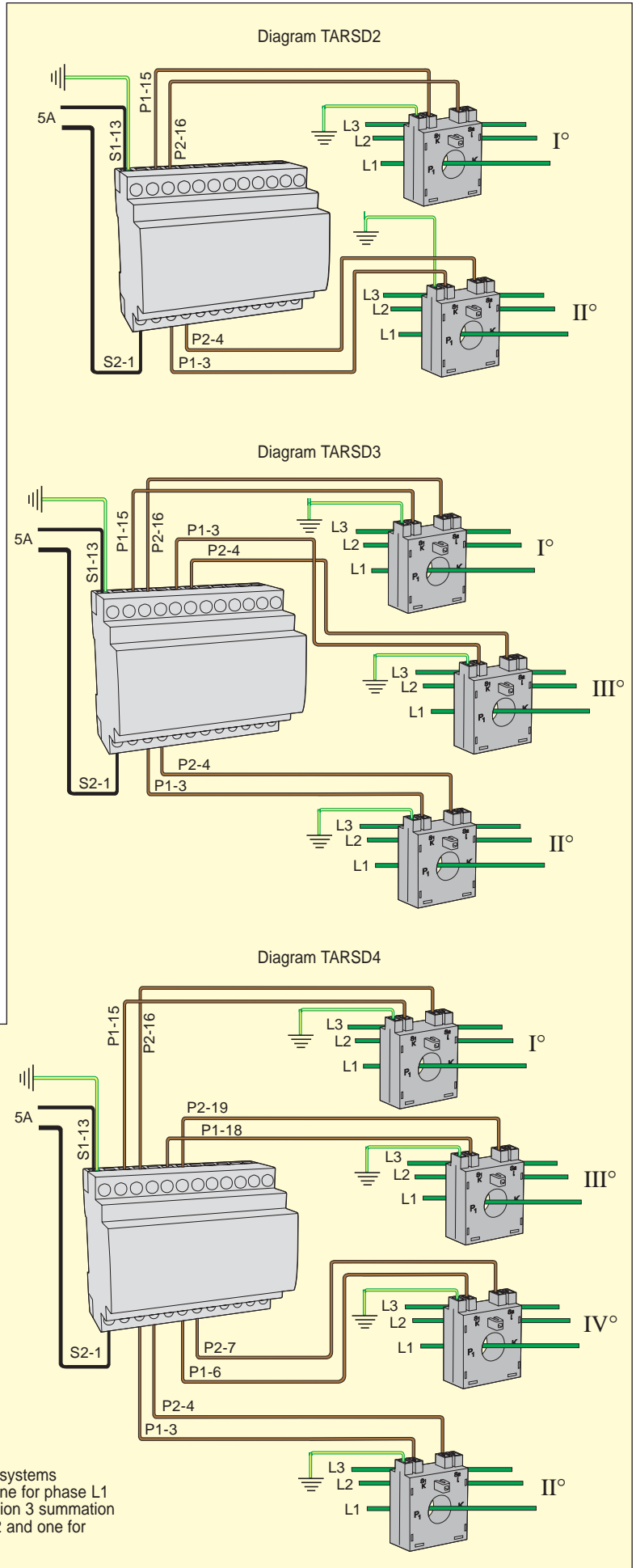
Kg	class 0,5					
	secondary current 5A			secondary current 1A		
	portata	code	VA	portata	code	VA
	5+5	TARSD2	6	1+1	TARSD21	6
	5+5+5	TARSD3	6	1+1+1	TARSD31	6
	5+5+5+5	TARSD4	6	1+1+1+1	TARSD41	6

Dimensions in mm



The dimension of 105 mm correspond to a 6 DIN modules (17,5 mm each)

These diagrams refer to a connection of one phase. In case of a 2 systems connection (ARON) 2 summation CTs and 2 current transformers (one for phase L1 and one for phase L3) must be used. In case of 3 systems connection 3 summation CTs and 3 current transformers (one for phase L1, one for phase L2 and one for phase L3) must be used.



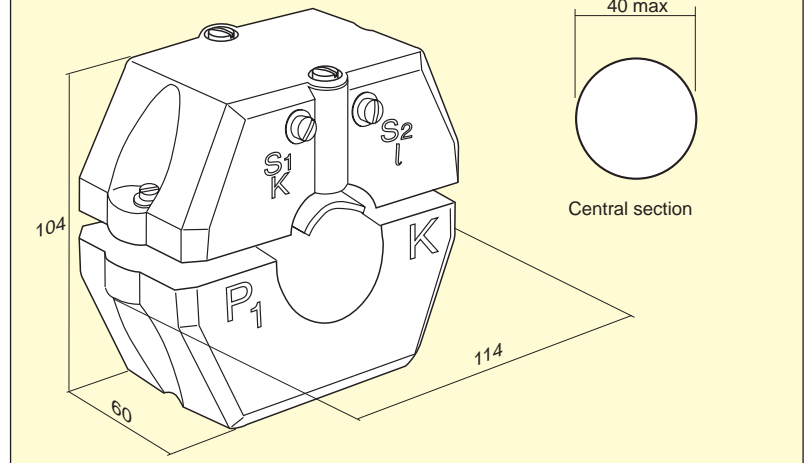
# SPLIT CORE CURRENT TRANSFORMERS

## TARA40

- Insulation in resin
- Transformer suitable for primary current by cable with maximum diameter 40 mm



Dimensions in mm



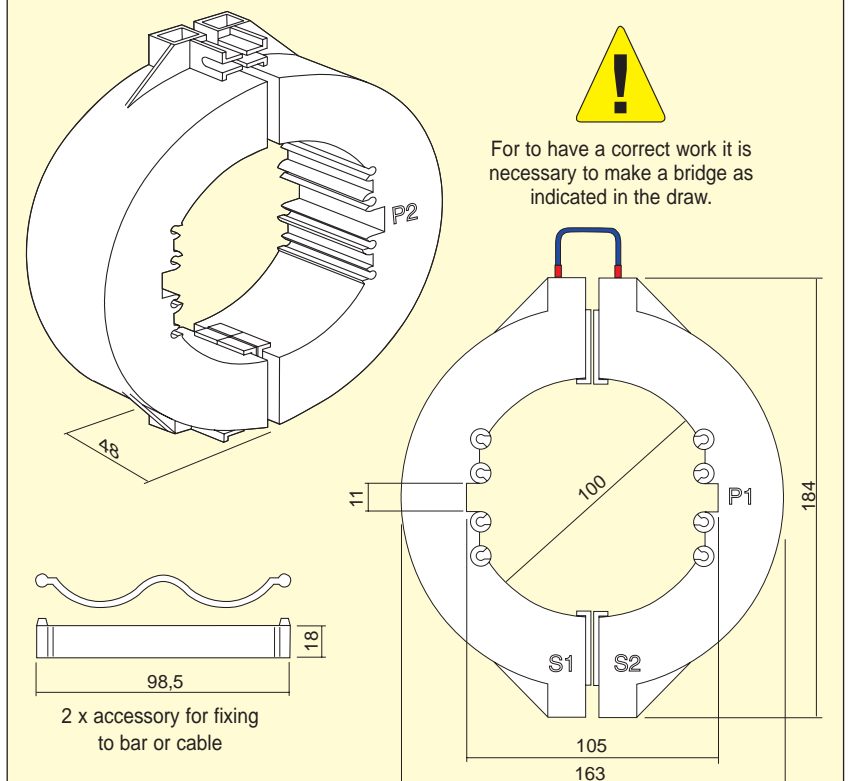
A	Kg	class 0,5				class 1				class 3			
		secondary current 5A		secondary current 1A		secondary current 5A		secondary current 1A		secondary current 5A		secondary current 1A	
		code	VA	code	VA	code	VA	code	VA	code	VA	code	VA
100	1,2									TARA40 100A	3	TARA401 100A	3
150										TARA40 150A	3	TARA401 150A	3
250						TARA40 250A	4	TARA401 250A	4				
300						TARA40 300A	5	TARA401 300A	5				
400		TARA40 400A	5	TARA401 400A	5								
500		TARA40 500A	5	TARA401 500A	5								
600		TARA40 600A	5	TARA401 600A	5								
800		TARA40 800A	5	TARA401 800A	5								
1000		TARA40 1K0A	6	TARA401 1K0A	6								

## TARA100

- Insulation in AIR
- Transformer suitable for primary current by cable with maximum diameter 100mm or horizontal bus bar 100x10 mm



Dimensions in mm



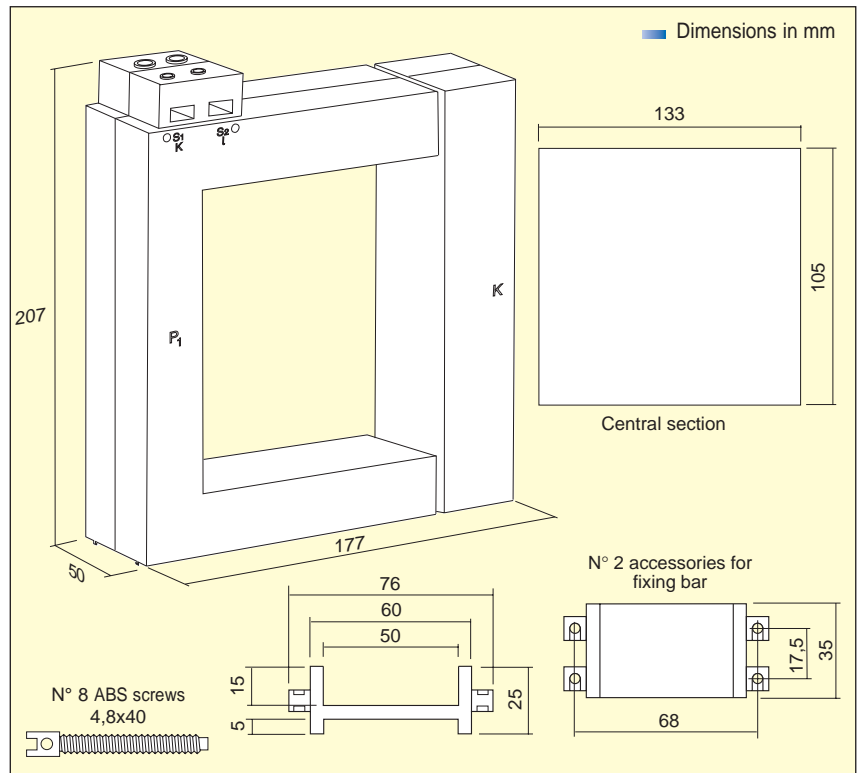
A	Kg	class 0,5			
		secondary current 5A		secondary current 1A	
		code	VA	code	VA
500		TARA100 500A	5	TARA1001 500A	5
600		TARA100 600A	5	TARA1001 600A	5
800		TARA100 800A	8	TARA1001 800A	8
1000		TARA100 1K0A	10	TARA1001 1K0A	10
1200		TARA100 1K2A	20	TARA1001 1K2A	20
1500		TARA100 1K5A	40	TARA1001 1K5A	40
2000		TARA100 2K0A	75	TARA1001 2K0A	75

## TARA105

- Transformer suitable for primary current by horizontal bar 120x10 - 2x120x10 - 3x120x10 mm or vertical bar 100x10 - 2x100x10 - 3x100x10 mm
- Sealable terminal covers ATCS1C on request



- Fixing system: directly to bus bar by the insulated screws supplied together with the current transformer
- Three different possibilities of the secondary's connection to choose between: fast-on, metal point cable terminal or metal fork cable terminal
- Different characteristics on request



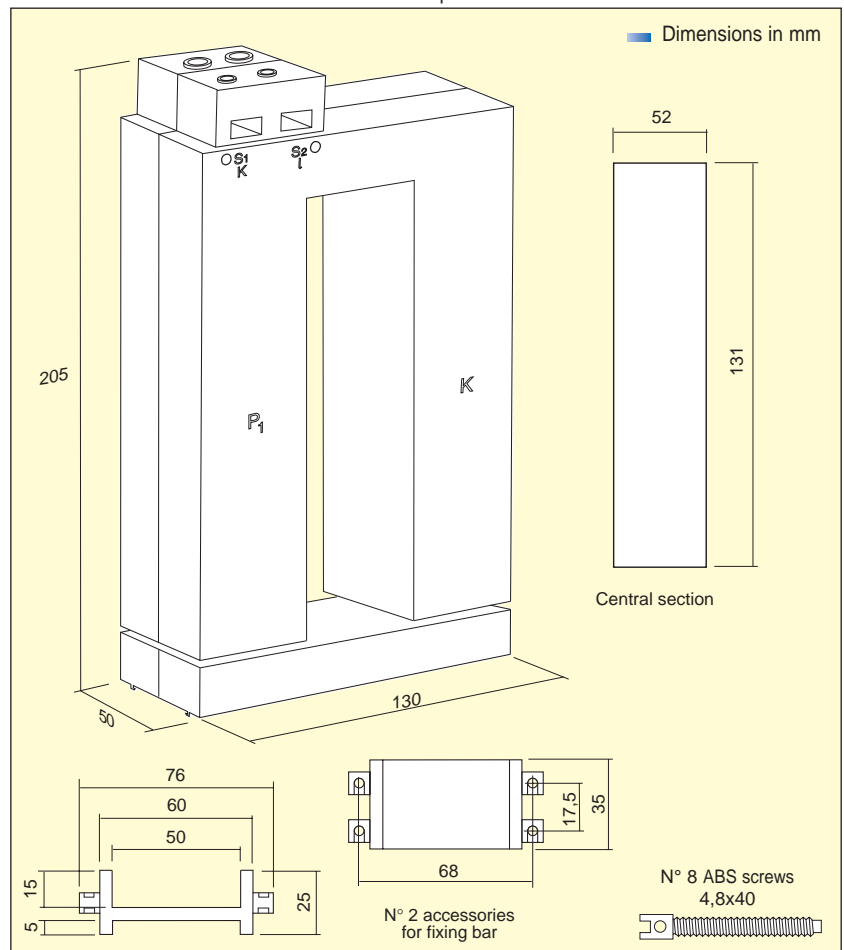
A	Kg	class 0,5			
primary current	medium weight	secondary current 5A		secondary current 1A	
		code	VA	code	VA
1000		TARA105 1K0A		TARA1051 1K0A	
1200		TARA105 1K2A		TARA1051 1K2A	
1500		TARA105 1K5A		TARA1051 1K5A	
2000		TARA105 2K0A		TARA1051 2K0A	
2500		TARA105 2K5A		TARA1051 2K5A	
3000		TARA105 3K0A		TARA1051 3K0A	

## TARA126

- Transformer suitable for primary current by vertical bar 2x80x5 - 2x80x10 - 3x80x5 - 5x80x5 - 2x100x5 - 3x100x5 - 4x100x5 - 100x10 - 2x100x10 - 5x100x5 - 3x120x10 - 2x125x5 mm
- Sealable terminal covers ATCS1C on request



- Three different possibilities of the secondary's connection to choose between: fast-on, metal point cable terminal or metal fork cable terminal
- Fixing system: directly to bus bar by the insulated screws supplied together with the current transformer
- Different characteristics on request



A	Kg	class 0,5			
primary current	medium weight	secondary current 5A		secondary current 1A	
		code	VA	code	VA
1250		TARA126 1K25A	20	TARA1261 1K25A	20
1500		TARA126 1K5A	20	TARA1261 1K5A	20
2000		TARA126 2K0A	20	TARA1261 2K0A	20
2500		TARA126 2K5A	20	TARA1261 2K5A	20
3000		TARA126 3K0A	20	TARA1261 3K0A	20

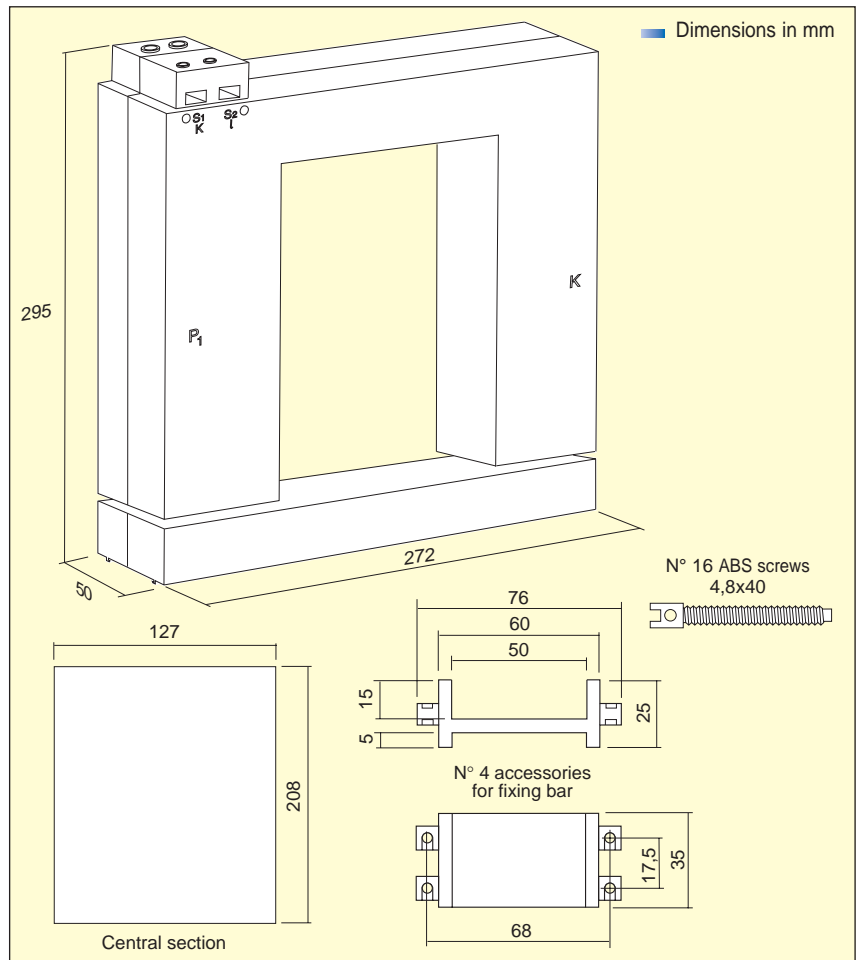
## TARA200

- Transformer suitable for primary current by horizontal bar 120x10 - 2x120x10 - 3x120x10 mm or vertical bar 200x10 - 2x200x10 - 3x200x10 mm
- Sealable terminal covers ATCS1C on request



- Fixing system: directly to bus bar by the insulated screws supplied together with the current transformer
- Three different possibilities of the secondary's connection to choose between: fast-on, metal point cable terminal or metal fork cable terminal
- Different characteristics on request

A	Kg	class 0,5			
primary current	medium weight	secondary current 5A		secondary current 1A	
		code	VA	code	VA
1000		TARA200 1K0A		TARA2001 1K0A	
1200		TARA200 1K2A		TARA2001 1K2A	
1500		TARA200 1K5A		TARA2001 1K5A	
2000		TARA200 2K0A		TARA2001 2K0A	
2500		TARA200 2K5A		TARA2001 2K5A	
3000		TARA200 3K0A		TARA2001 3K0A	
4000		TARA200 4K0A		TARA2001 4K0A	
5000		TARA200 5K0A		TARA2001 5K0A	
6000		TARA200 6K0A		TARA2001 6K0A	



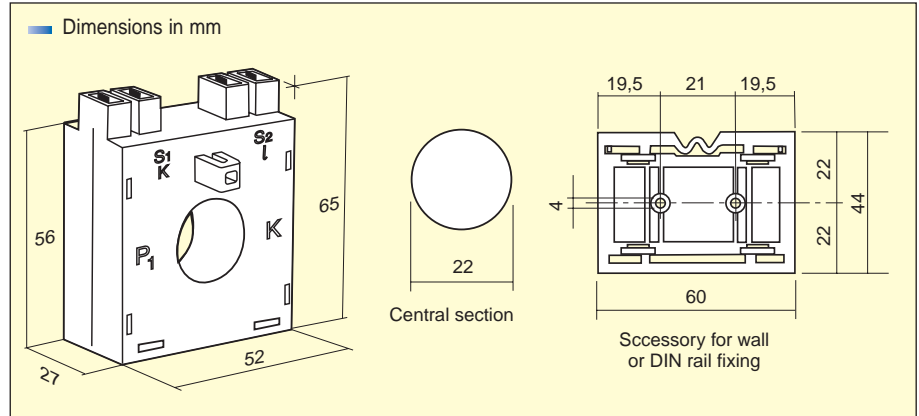
# CURRENT TRANSFORMERS FOR ELECTRONICS

## TAMEL

These transformers are used for measuring current from 25A to 600A (nominal primary current). The peculiar characteristic of these transformers is the high number of turns in the secondary cable. This makes it possible to have a very low secondary current, suitable for an electronic measuring circuit.

The secondary current can be seen as voltage across a resistor. The resistor, of low power and cost, is directly fitted onto the printed circuit.

- Appliance sphere:
  - current sensor for circuits which protect motors, UPS and similar;
  - current sensor for measuring instruments (current probe).
- Insulation voltage between primary and secondary elements 4kV
- Frequency: 50 - 60Hz
- Other characteristics on request



A primary current	% class	Kg medium weight	secondary current										n numbers of turns in the secondary cable	Ru (Ohm) resistance of secondary load	Vu (VAC) voltage available for secondary element									
			0,05 A		0,1 A		0,2 A		0,4 A		0,6 A													
			code	VA	code	VA	code	VA	code	VA	code	VA												
25	2	0,2	TAMEL 25/0.05A	0,20	TAMEL 100/0.1A	1,25	TAMEL 25/0.2A	1,25	TAMEL 200/0.4A	4	TAMEL 200/0.4A	4	n <sub>1-2</sub> =500	40	2									
25	2,5																					n <sub>1-2</sub> =125	20	4
50	1		TAMEL 50/0.05A	0,20																		n <sub>1-2</sub> =1000	80	4
50	1,5																					n <sub>1-3</sub> =250	20	4
100	0,4																					n <sub>1-4</sub> =1000	20	2
100	0,8																					n <sub>1-4</sub> =500	20	4
200	0,5																					n <sub>1-2</sub> =1000	20	4
200	1																					n <sub>1-2</sub> =500	20	8
300	0,3																					n <sub>1-3</sub> =1500	20	4
400	0,2																					n <sub>1-4</sub> =2000	20	4
400	0,4																					n <sub>1-3</sub> =1000	20	8
600	0,5																					n <sub>1-4</sub> =3000	20	4
600	0,2																					n <sub>1-4</sub> =1500	20	8
600	0,2																			TAMEL 600/0.6A	4	n <sub>1-4</sub> =1000	10	6

# CURRENT TRANSFORMERS FOR MEDIUM VOLTAGE CABLES

## TECHNICAL CHARACTERISTICS

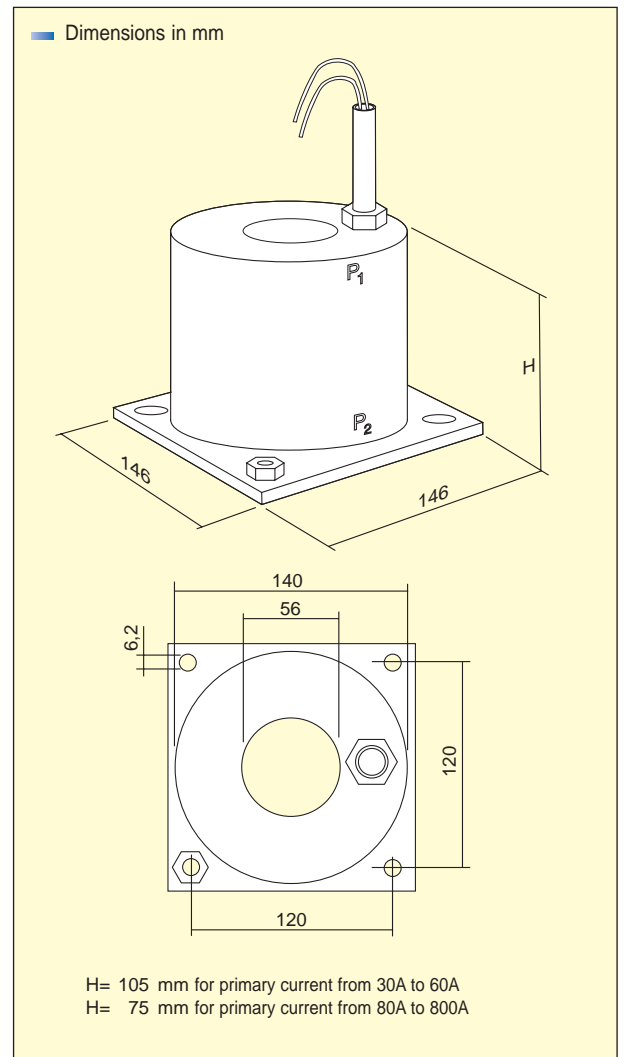
- Maximum diameter of the primary cable 50mm
- Frequency: 40 - 60Hz
- Insulation voltage: 0,72 kV
- Test voltage: 3kV for 1 minute
- Insulation: class E
- Permanent overload: 1,2 I<sub>n</sub>
- Minimum protection degree: IP55
- Thermic current (I<sub>th</sub>): 40 - 80 I<sub>pn</sub> for 1 second
- Dynamic current (I<sub>din</sub>): 2,5 I<sub>ter</sub> for 1 second
- Safety factor (Fs): < 10 for the measuring transformers
- Working temperature: -25°C ÷ +50°C
- Storage temperature: -40°C ÷ +80°C
- Standards CEI 38-1
- Measuring CT: primary P1-P2 secondary 1S1 (blue wire) - 1S2 (black wire)
- Protection CT: primary P1-P2 secondary 2S1(red wire) - 2S2 (grey wire)

## MECHANICAL CHARACTERISTICS

- Metallic tube, thickness 3mm
- Metallic base, thickness 2mm on which the earth screw is soldered
- Dust varnishing in black colour
- Tropicalisation and antivibrating system included as that the magnetic core is immersed in quartzed resin
- Secondary wires, coloured: lenght: 30 cm  
section: 2,5 mm<sup>2</sup>

## TAN1M - MEASURING TRANSFORMERS

- Other characteristics on request



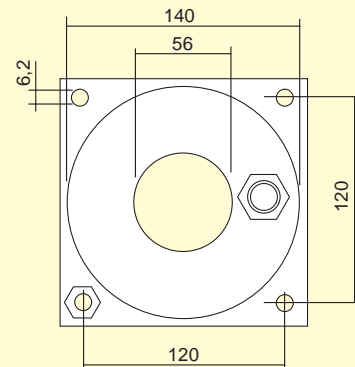
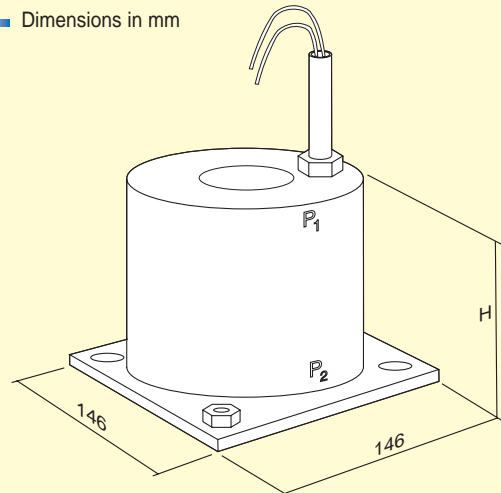
A	H (mm)	Kg	class 1			
primary current	height	medium weight	secondary current 5A		secondary current 1A	
			code	VA	code	VA
30	105	9,5	TAN1M 30A	4	TAN1M1 30A	4
40	105		TAN1M 40A	6	TAN1M1 40A	6
50	105		TAN1M 50A	8	TAN1M1 50A	8
60	105	7,5	TAN1M 60A	10	TAN1M1 60A	10
80	75		TAN1M 80A	7	TAN1M1 80A	7
100	75		TAN1M 100A	8	TAN1M1 100A	8
120	75	5	TAN1M 120A	10	TAN1M1 120A	10
150	75		TAN1M 150A	12	TAN1M1 150A	12
200	75		TAN1M 200A	15	TAN1M1 200A	15
250	75	5	TAN1M 250A	18	TAN1M1 250A	18
400	75		TAN1M 400A	20	TAN1M1 400A	20
600	75		TAN1M 600A	25	TAN1M1 600A	25
800	75		TAN1M 800A	30	TAN1M1 800A	30

## TAN1P - PROTECTION TRANSFORMERS

Other characteristics on request



Dimensions in mm



H= 165 mm for primary current from 30A to 60A  
 H= 105 mm for primary current from 80A to 250A  
 H= 75 mm for primary current from 400A to 800A

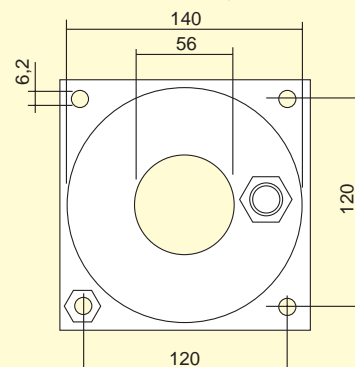
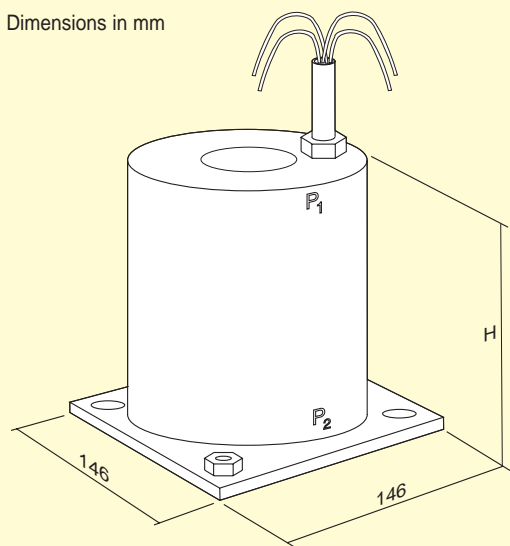
A	H (mm)	Kg	class 5P10			
primary current	height	medium weight	secondary current 5A		secondary current 1A	
			code	VA	code	VA
30	165	12	TAN1P 30A	3,3	TAN1P1 30A	3,3
40	165		TAN1P 40A	4,2	TAN1P1 40A	4,2
50	165		TAN1P 50A	5,3	TAN1P1 50A	5,3
60	165		TAN1P 60A	6,5	TAN1P1 60A	6,5
80	105		TAN1P 80A	4,5	TAN1P1 80A	4,5
100	105		TAN1P 100A	5	TAN1P1 100A	5
120	105	8	TAN1P 120A	6	TAN1P1 120A	6
150	105		TAN1P 150A	7,5	TAN1P1 150A	7,5
200	105		TAN1P 200A	10	TAN1P1 200A	10
250	105		TAN1P 250A	12	TAN1P1 250A	12
400	75		TAN1P 400A	13	TAN1P1 400A	13
600	75		5,5	TAN1P 600A	15	TAN1P1 600A
800	75	TAN1P 800A		17	TAN1P1 800A	17

## TAN2 - MEASURING AND PROTECTION TRANSFORMERS

Other characteristics on request



Dimensions in mm



H= 245 mm for primary current from 30A to 60A  
 H= 165 mm for primary current from 80A to 800A

A	H (mm)	Kg	class 1 - 5P10			
primary current	height	medium weight	secondary current 5A		secondary current 1A	
			code	VA	code	VA
30	245	20	TAN2 30A	4 - 3,3	TAN21 30A	4 - 3,3
40	245		TAN2 40A	6 - 4,2	TAN21 40A	6 - 4,2
50	245		TAN2 50A	8 - 5,3	TAN21 50A	8 - 5,3
60	245		TAN2 60A	10 - 6,5	TAN21 60A	10 - 6,5
80	165		TAN2 80A	7 - 4,5	TAN21 80A	7 - 4,5
100	165		13,5	TAN2 100A	8 - 5	TAN21 100A
120	165	TAN2 120A		10 - 6	TAN21 120A	10 - 6
150	165	TAN2 150A		12 - 7,5	TAN21 150A	12 - 7,5
200	165	TAN2 200A		15 - 10	TAN21 200A	15 - 10
250	165	TAN2 250A		18 - 12	TAN21 250A	18 - 12
400	165	12		TAN2 400A	20 - 13	TAN21 400A
600	165		TAN2 600A	25 - 15	TAN21 600A	25 - 15
800	165		TAN2 800A	30 - 17	TAN21 800A	30 - 17

# RATIO CORRECTING CURRENT TRANSFORMERS

These transformers are used when it is necessary to correct the transformation ratio of the main CT in order to adapt it to particular needs on the part of the measuring circuit or the phase displacement caused by star / delta connections, filtering the eventual homopolar currents.

## TARCRD

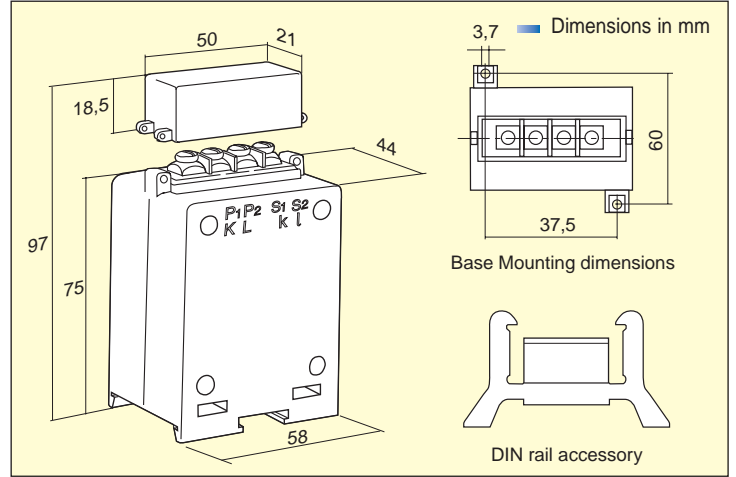
- Transformer with wound primary cable, primary and secondary currents on the terminals
- Fixing system: to wall or to DIN rail by accessories supplied together with the current transformer

- Sealable terminals cover included
- Different characteristics on request



When ordering indicate exactly the primary and secondary current

A	A	Kg	Burden VA		
primary current	secondary current	Wheight	Class		
0,5 ÷ 40	0,2 ÷ 10	0,3	0,5	1	3
			2	4	6



## TARCRD1

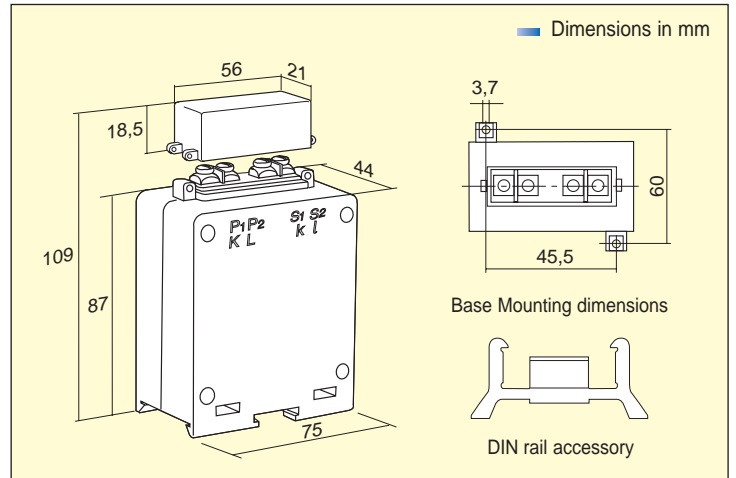
- Transformer with wound primary cable, primary and secondary currents on the terminals
- Fixing system: to wall or to DIN rail by accessories supplied together with the current transformer

- Sealable terminals cover included
- Different characteristics on request



When ordering indicate exactly the primary and secondary current

A	A	Kg	Burden VA	
primary current	secondary current	Wheight	Class	
0,5 ÷ 40	0,5 ÷ 10	0,4	0,5	1
			10	15



## TARCR2

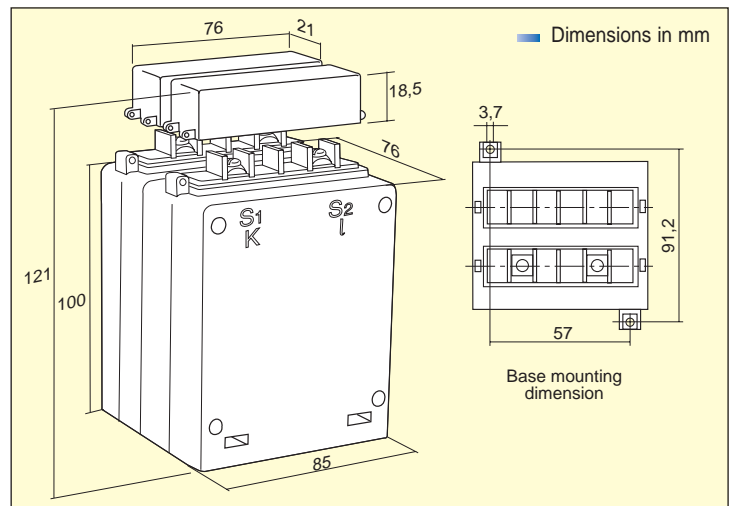
- Transformer with wound primary cable, primary and secondary currents on the terminals
- Fixing system: to wall or to DIN rail by accessories supplied together with the current transformer

- Sealable terminals cover included
- Different characteristics on request



When ordering indicate exactly the primary and secondary current

A	A	Kg	Burden VA		
primary current	secondary current	Wheight	Class		
0,5 ÷ 40	0,5 ÷ 10	0,5	0,5	1	5P10
			20	40	4



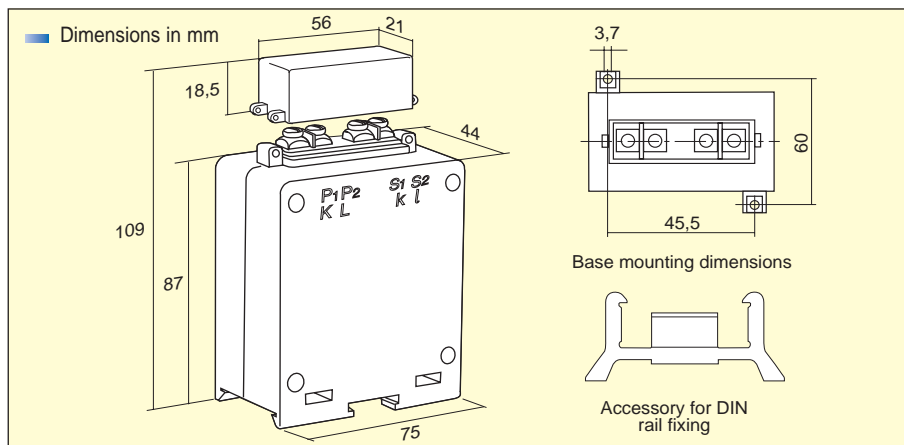


# VOLTAGE TRANSFORMERS

## TVR2

- Construction according to the CEI and IEC regulation
- Case in ABS resin
- Maximum reference voltage for insulation: 0,72 kV
- Test voltage: 3 kV a 50 Hz for 1 minute
- Permanent overload: 1,2 Vn
- Fixing to wall or DIN rail by accessories

- Sealable terminals cover included
- Primary voltages different from the standard can be manufactured on request
- Secondary voltages on request
- When ordering indicate exactly the primary and secondary voltages**



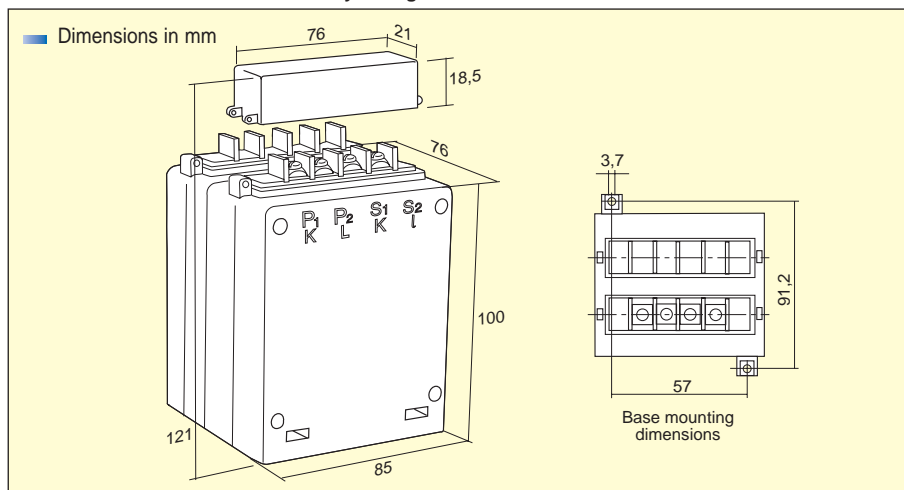
V	Kg	class 1	
primary voltage	medium weight	code	VA
100	1,5	TVR2 100/.....(value of the secondary voltage)	2
110		TVR2 110/.....(value of the secondary voltage)	2
115		TVR2 115/.....(value of the secondary voltage)	2
230		TVR2 230/.....(value of the secondary voltage)	2
380		TVR2 380/.....(value of the secondary voltage)	2
400		TVR2 400/.....(value of the secondary voltage)	2
440		TVR2 440/.....(value of the secondary voltage)	2
500		TVR2 500/.....(value of the secondary voltage)	2
600	TVR2 600/.....(value of the secondary voltage)	2	

V	Kg	class 1	
primary voltage	medium weight	code (where R means $\sqrt{3}$ )	VA
100: $\sqrt{3}$	1,5	TVR2 100R/.....(value of the secondary voltage)	2
110: $\sqrt{3}$		TVR2 110R/.....(value of the secondary voltage)	2
115: $\sqrt{3}$		TVR2 115R/.....(value of the secondary voltage)	2
230: $\sqrt{3}$		TVR2 230R/.....(value of the secondary voltage)	2
380: $\sqrt{3}$		TVR2 380R/.....(value of the secondary voltage)	2
400: $\sqrt{3}$		TVR2 400R/.....(value of the secondary voltage)	2
440: $\sqrt{3}$		TVR2 440R/.....(value of the secondary voltage)	2
500: $\sqrt{3}$		TVR2 500R/.....(value of the secondary voltage)	2
600: $\sqrt{3}$	TVR2 600R/.....(value of the secondary voltage)	2	

## TVR6

- Construction according to the CEI and IEC regulation
- Case in ABS resin
- Maximum reference voltage for insulation: 0,72 kV
- Test voltage: 3 kV a 50 Hz for 1 minute
- Permanent overload: 1,2 Vn
- Fixing to wall by accessories

- Sealable terminals cover included
- Primary voltages different from the standard can be manufactured on request
- Secondary voltages on request
- When ordering indicate exactly the primary and secondary voltages**



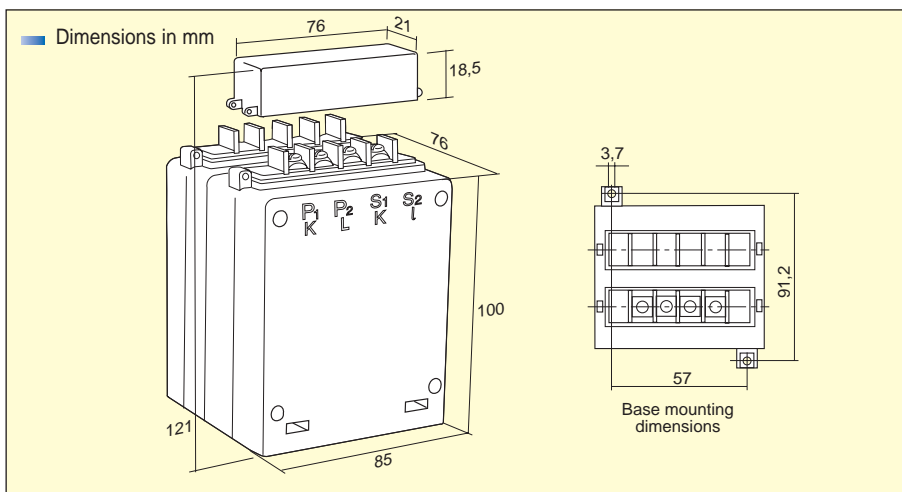
V	Kg	class 0,5	
primary voltage	medium weight	code	VA
100	2	TVR6 100/.....(value of the secondary voltage)	6
110		TVR6 110/.....(value of the secondary voltage)	6
115		TVR6 115/.....(value of the secondary voltage)	6
230		TVR6 230/.....(value of the secondary voltage)	6
380		TVR6 380/.....(value of the secondary voltage)	6
400		TVR6 400/.....(value of the secondary voltage)	6
440		TVR6 440/.....(value of the secondary voltage)	6
500		TVR6 500/.....(value of the secondary voltage)	6
600	TVR6 600/.....(value of the secondary voltage)	6	

V	Kg	class 0,5	
primary voltage	medium weight	code (where R means $\sqrt{3}$ )	VA
100: $\sqrt{3}$	2	TVR6 100R/.....(value of the secondary voltage)	6
110: $\sqrt{3}$		TVR6 110R/.....(value of the secondary voltage)	6
115: $\sqrt{3}$		TVR6 115R/.....(value of the secondary voltage)	6
230: $\sqrt{3}$		TVR6 230R/.....(value of the secondary voltage)	6
380: $\sqrt{3}$		TVR6 380R/.....(value of the secondary voltage)	6
400: $\sqrt{3}$		TVR6 400R/.....(value of the secondary voltage)	6
440: $\sqrt{3}$		TVR6 440R/.....(value of the secondary voltage)	6
500: $\sqrt{3}$		TVR6 500R/.....(value of the secondary voltage)	6
600: $\sqrt{3}$	TVR6 600R/.....(value of the secondary voltage)	6	

## TVR10

- Construction according to the CEI and IEC regulation
- Case in ABS resin
- Maximum reference voltage for insulation: 0,72 kV
- Test voltage 3 kV a 50 Hz for 1 minute
- Permanent overload: 1,2 Vn
- Fixing to wall by accessories

- Sealable terminals cover included
- Primary voltages different from the standard can be manufactured on request
- Secondary voltages on request
- When ordering indicate exactly the primary and secondary voltages**



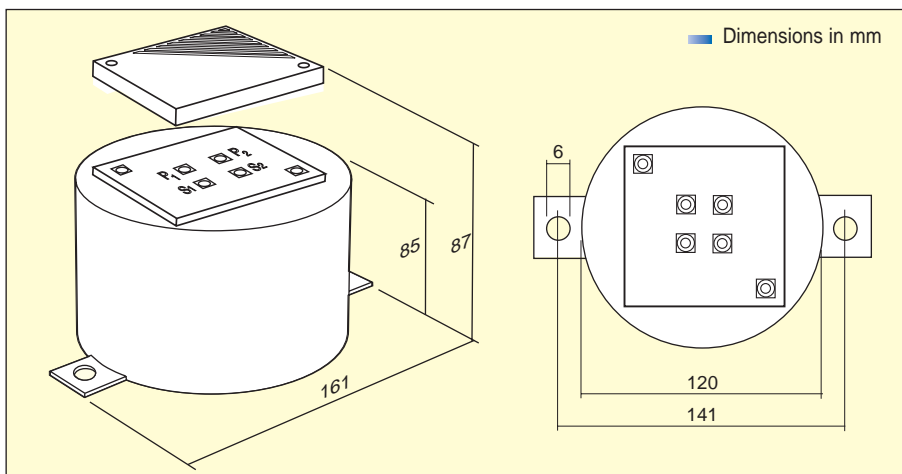
V	Kg	class 0,5	
primary voltage	medium weight	code	VA
100	2,2	TVR10 100/.....(value of the secondary voltage)	10
110		TVR10 110/.....(value of the secondary voltage)	10
115		TVR10 115/.....(value of the secondary voltage)	10
230		TVR10 230/.....(value of the secondary voltage)	10
380		TVR10 380/.....(value of the secondary voltage)	10
400		TVR10 400/.....(value of the secondary voltage)	10
440		TVR10 440/.....(value of the secondary voltage)	10
500		TVR10 500/.....(value of the secondary voltage)	10
600	TVR10 600/.....(value of the secondary voltage)	10	

V	Kg	class 0,5	
primary voltage	medium weight	code (where R means $\sqrt{3}$ )	VA
100: $\sqrt{3}$	2,2	TVR10 100R/.....(value of the secondary voltage)	10
110: $\sqrt{3}$		TVR10 110R/.....(value of the secondary voltage)	10
115: $\sqrt{3}$		TVR10 115R/.....(value of the secondary voltage)	10
230: $\sqrt{3}$		TVR10 230R/.....(value of the secondary voltage)	10
380: $\sqrt{3}$		TVR10 380R/.....(value of the secondary voltage)	10
400: $\sqrt{3}$		TVR10 400R/.....(value of the secondary voltage)	10
440: $\sqrt{3}$		TVR10 440R/.....(value of the secondary voltage)	10
500: $\sqrt{3}$		TVR10 500R/.....(value of the secondary voltage)	10
600: $\sqrt{3}$	TVR10 600R/.....(value of the secondary voltage)	10	

## TVR16

- Construction according to the CEI and IEC regulation
- Insulation in resin
- Maximum reference voltage for insulation: 0,72 kV
- Test voltage: 3 kV a 50 Hz for 1 minute
- Permanent overload: 1,2 Vn
- Fixing to wall by an incorporated accessory

- Sealable terminals cover included
- Primary voltages different from the standard can be manufactured on request
- Secondary voltages on request
- When ordering indicate exactly the primary and secondary voltages**



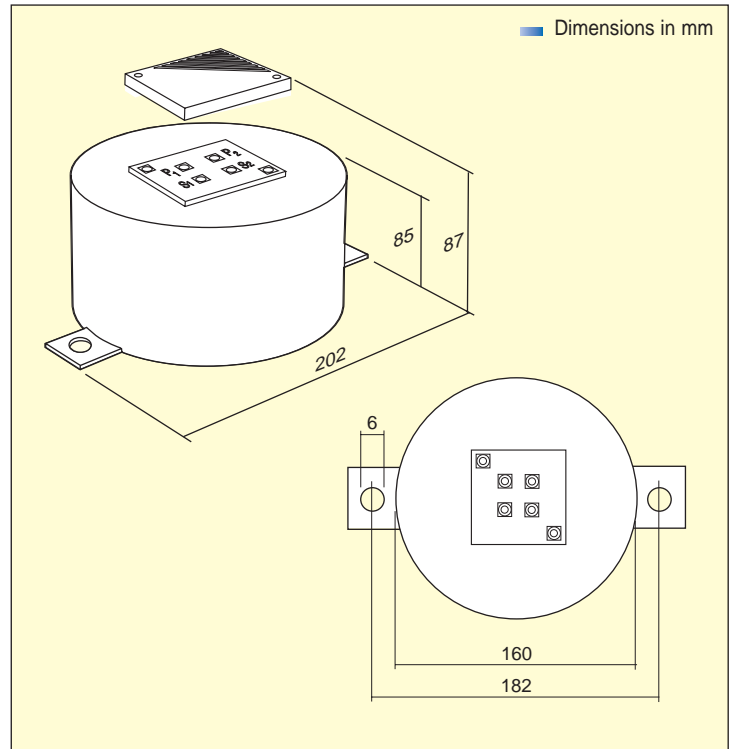
V	Kg	class 0,5	
primary voltage	medium weight	code	VA
100	6	TVR16 100/.....(value of the secondary voltage)	16
110		TVR16 110/.....(value of the secondary voltage)	16
115		TVR16 115/.....(value of the secondary voltage)	16
230		TVR16 230/.....(value of the secondary voltage)	16
380		TVR16 380/.....(value of the secondary voltage)	16
400		TVR16 400/.....(value of the secondary voltage)	16
440		TVR16 440/.....(value of the secondary voltage)	16
500		TVR16 500/.....(value of the secondary voltage)	16
600	TVR16 600/.....(value of the secondary voltage)	16	

V	Kg	class 0,5	
primary voltage	medium weight	code (where R means $\sqrt{3}$ )	VA
100: $\sqrt{3}$	6	TVR16 100R/.....(value of the secondary voltage)	16
110: $\sqrt{3}$		TVR16 110R/.....(value of the secondary voltage)	16
115: $\sqrt{3}$		TVR16 115R/.....(value of the secondary voltage)	16
230: $\sqrt{3}$		TVR16 230R/.....(value of the secondary voltage)	16
380: $\sqrt{3}$		TVR16 380R/.....(value of the secondary voltage)	16
400: $\sqrt{3}$		TVR16 400R/.....(value of the secondary voltage)	16
440: $\sqrt{3}$		TVR16 440R/.....(value of the secondary voltage)	16
500: $\sqrt{3}$		TVR16 500R/.....(value of the secondary voltage)	16
600: $\sqrt{3}$	TVR16 600R/.....(value of the secondary voltage)	16	

## TVR40

- Construction according to the CEI and IEC regulation
- Insulation in resin
- Maximum reference voltage for insulation: 0,72 kV
- Test voltage: 3 kV a 50 Hz for 1 minute
- Permanent overload: 1,2 Vn
- Fixing to wall by an incorporated accessory

- Sealable terminals cover included
- Primary voltages different from the standard can be manufactured on request
- Secondary voltages on request
- When ordering indicate exactly the primary and secondary voltages**



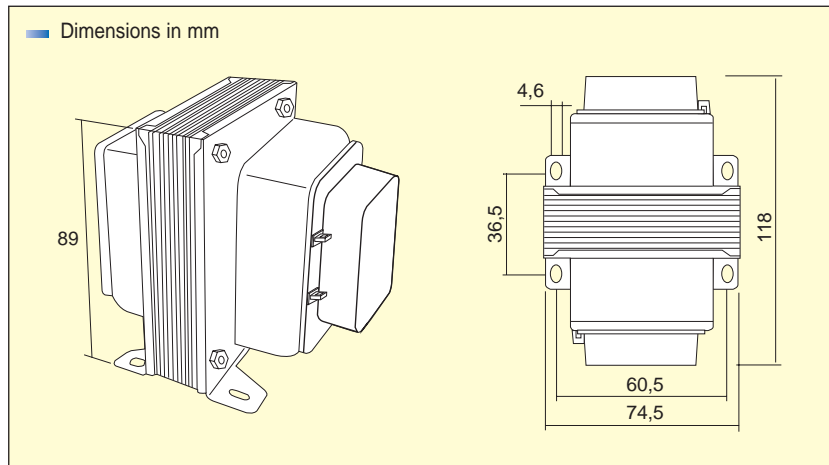
V	Kg	class 0,5	
primary voltage	medium weight	code	VA
100	6,3	TVR40 100/.....(value of the secondary voltage)	40
110		TVR40 110/.....(value of the secondary voltage)	40
115		TVR40 115/.....(value of the secondary voltage)	40
230		TVR40 230/.....(value of the secondary voltage)	40
380		TVR40 380/.....(value of the secondary voltage)	40
400		TVR40 400/.....(value of the secondary voltage)	40
440		TVR40 440/.....(value of the secondary voltage)	40
500		TVR40 500/.....(value of the secondary voltage)	40
600	TVR40 600/.....(value of the secondary voltage)	40	

V	Kg	class 0,5	
primary voltage	medium weight	code (where R means $\sqrt{3}$ )	VA
100: $\sqrt{3}$	6,3	TVR40 100R/.....(value of the secondary voltage)	40
110: $\sqrt{3}$		TVR40 110R/.....(value of the secondary voltage)	40
115: $\sqrt{3}$		TVR40 115R/.....(value of the secondary voltage)	40
230: $\sqrt{3}$		TVR40 230R/.....(value of the secondary voltage)	40
380: $\sqrt{3}$		TVR40 380R/.....(value of the secondary voltage)	40
400: $\sqrt{3}$		TVR40 400R/.....(value of the secondary voltage)	40
440: $\sqrt{3}$		TVR40 440R/.....(value of the secondary voltage)	40
500: $\sqrt{3}$		TVR40 500R/.....(value of the secondary voltage)	40
600: $\sqrt{3}$	TVR40 600R/.....(value of the secondary voltage)	40	

## TVRE3

- Construction according to the CEI and IEC regulation
- Metallic case
- Maximum reference voltage for insulation: 0,72 kV
- Test voltage: 3 kV a 50 Hz for 1 minute
- Permanent overload: 1,2 Vn
- Insulation in air
- Two sealable terminals cover included

- Protection degree: IP30
- Fixing to wall by incorporated accessories
- Primary voltages different from the standard can be manufactured on request
- Secondary voltages on request
- When ordering indicate exactly the primary and secondary voltages**



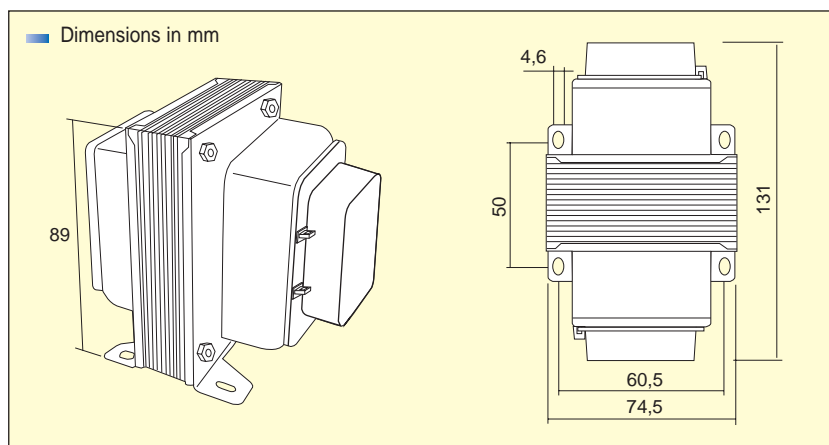
V	Kg	class 1	
primary voltage	medium weight	code	VA
100	0,95	TVRE3 100/.....(value of the secondary voltage)	3
110		TVRE3 110/.....(value of the secondary voltage)	3
115		TVRE3 115/.....(value of the secondary voltage)	3
230		TVRE3 230/.....(value of the secondary voltage)	3
380		TVRE3 380/.....(value of the secondary voltage)	3
400		TVRE3 400/.....(value of the secondary voltage)	3
440		TVRE3 440/.....(value of the secondary voltage)	3
500	TVRE3 500/.....(value of the secondary voltage)	3	

V	Kg	class 1	
primary voltage	medium weight	code (where R means $\sqrt{3}$ )	VA
100: $\sqrt{3}$	0,95	TVRE3 100R/.....(value of the secondary voltage)	1,5
110: $\sqrt{3}$		TVRE3 110R/.....(value of the secondary voltage)	1,5
115: $\sqrt{3}$		TVRE3 115R/.....(value of the secondary voltage)	1,5
230: $\sqrt{3}$		TVRE3 230R/.....(value of the secondary voltage)	1,5
380: $\sqrt{3}$		TVRE3 380R/.....(value of the secondary voltage)	1,5
400: $\sqrt{3}$		TVRE3 400R/.....(value of the secondary voltage)	1,5
440: $\sqrt{3}$		TVRE3 440R/.....(value of the secondary voltage)	1,5
500: $\sqrt{3}$	TVRE3 500R/.....(value of the secondary voltage)	1,5	

## TVRE6

- Construction according to the CEI and IEC regulation
- Metallic case
- Maximum reference voltage for insulation: 0,72 kV
- Test voltage: 3 kV a 50 Hz for 1 minute
- Permanent overload: 1,2 Vn
- Insulation in air
- Two sealable terminals cover included

- Protection degree: IP30
- Fixing to wall by incorporated accessories
- Primary voltages different from the standard can be manufactured on request
- Secondary voltages on request
- When ordering indicate exactly the primary and secondary voltages**



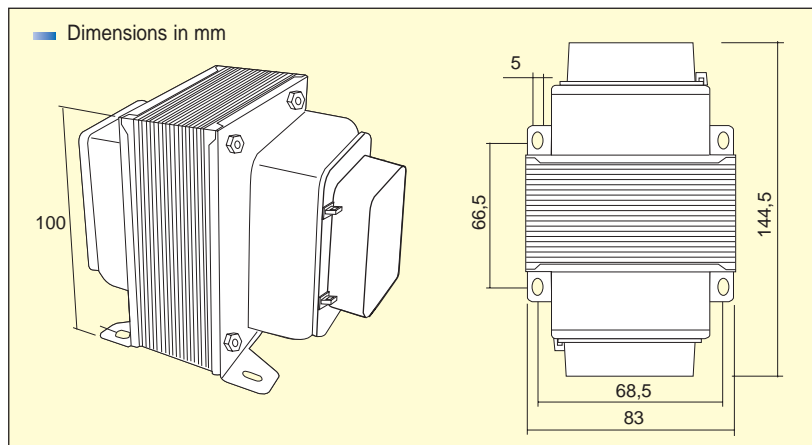
V	Kg	class 1	
primary voltage	medium weight	code	VA
100	1,65	TVRE6 100/.....(value of the secondary voltage)	6
110		TVRE6 110/.....(value of the secondary voltage)	6
115		TVRE6 115/.....(value of the secondary voltage)	6
230		TVRE6 230/.....(value of the secondary voltage)	6
380		TVRE6 380/.....(value of the secondary voltage)	6
400		TVRE6 400/.....(value of the secondary voltage)	6
440		TVRE6 440/.....(value of the secondary voltage)	6
500	TVRE6 500/.....(value of the secondary voltage)	6	
600	TVRE6 600/.....(value of the secondary voltage)	6	

V	Kg	class 1	
primary voltage	medium weight	code (where R means $\sqrt{3}$ )	VA
100: $\sqrt{3}$	1,65	TVRE6 100R/.....(value of the secondary voltage)	3
110: $\sqrt{3}$		TVRE6 110R/.....(value of the secondary voltage)	3
115: $\sqrt{3}$		TVRE6 115R/.....(value of the secondary voltage)	3
230: $\sqrt{3}$		TVRE6 230R/.....(value of the secondary voltage)	3
380: $\sqrt{3}$		TVRE6 380R/.....(value of the secondary voltage)	3
400: $\sqrt{3}$		TVRE6 400R/.....(value of the secondary voltage)	3
440: $\sqrt{3}$		TVRE6 440R/.....(value of the secondary voltage)	3
500: $\sqrt{3}$	TVRE6 500R/.....(value of the secondary voltage)	3	
600: $\sqrt{3}$	TVRE6 600R/.....(value of the secondary voltage)	3	

## TVRE10

- Construction according to the CEI and IEC regulation
- Metallic case
- Maximum reference voltage for insulation: 0,72 kV
- Test voltage: 3 kV a 50 Hz for 1 minute
- Permanent overload: 1,2 Vn
- Insulation in air
- Two sealable terminals cover included

- Protection degree: IP30
- Fixing to wall by incorporated accessories
- Primary voltages different from the standard can be manufactured on request
- Secondary voltages on request
- When ordering indicate exactly the primary and secondary voltages**



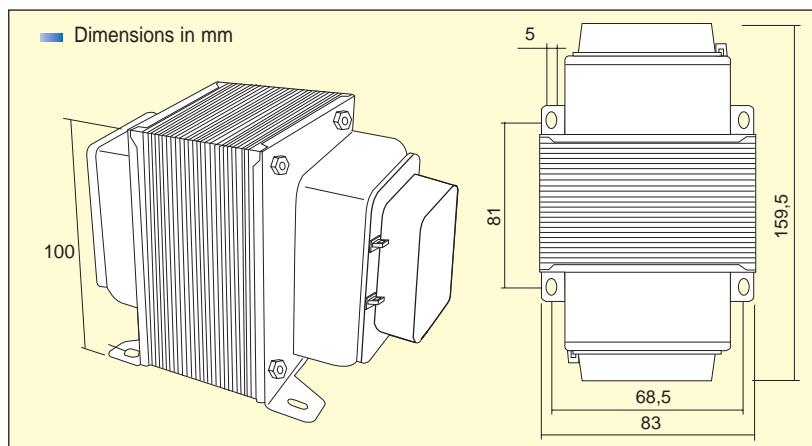
V	Kg	class 1	
primary voltage	medium weight	code	VA
100	2,35	TVRE10 100/.....(value of the secondary voltage)	10
110		TVRE10 110/.....(value of the secondary voltage)	10
115		TVRE10 115/.....(value of the secondary voltage)	10
230		TVRE10 230/.....(value of the secondary voltage)	10
380		TVRE10 380/.....(value of the secondary voltage)	10
400		TVRE10 400/.....(value of the secondary voltage)	10
440		TVRE10 440/.....(value of the secondary voltage)	10
500		TVRE10 500/.....(value of the secondary voltage)	10
600	TVRE10 600/.....(value of the secondary voltage)	10	

V	Kg	class 1	
primary voltage	medium weight	code (where R means $\sqrt{3}$ )	VA
100: $\sqrt{3}$	2,35	TVRE10 100R/.....(value of the secondary voltage)	5
110: $\sqrt{3}$		TVRE10 110R/.....(value of the secondary voltage)	5
115: $\sqrt{3}$		TVRE10 115R/.....(value of the secondary voltage)	5
230: $\sqrt{3}$		TVRE10 230R/.....(value of the secondary voltage)	5
380: $\sqrt{3}$		TVRE10 380R/.....(value of the secondary voltage)	5
400: $\sqrt{3}$		TVRE10 400R/.....(value of the secondary voltage)	5
440: $\sqrt{3}$		TVRE10 440R/.....(value of the secondary voltage)	5
500: $\sqrt{3}$		TVRE10 500R/.....(value of the secondary voltage)	5
600: $\sqrt{3}$	TVRE10 600R/.....(value of the secondary voltage)	5	

## TVRE20

- Construction according to the CEI and IEC regulation
- Metallic case
- Maximum reference voltage for insulation: 0,72 kV (1,2 kV if >800V)
- Test voltage: 3 kV a 50 Hz for 1 minute (6 kV if >800V)
- Permanent overload: 1,2 Vn
- Insulation in air
- Two sealable terminals cover included

- Protection degree: IP30
- Fixing to wall by incorporated accessories
- Primary voltages different from the standard can be manufactured on request
- Secondary voltages on request
- When ordering indicate exactly the primary and secondary voltages**



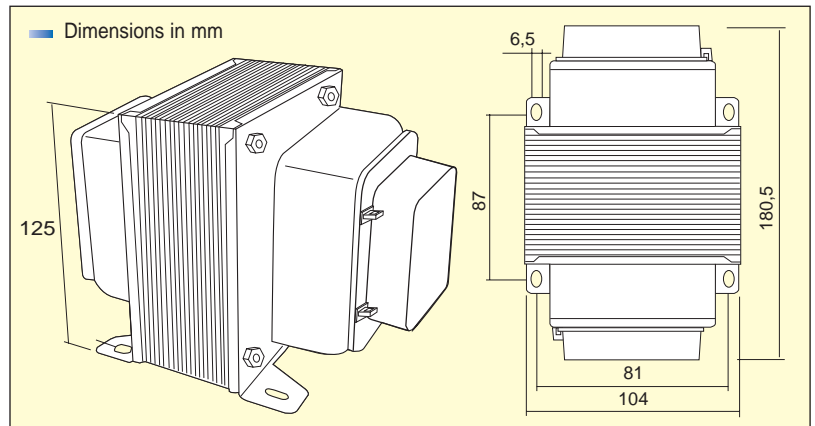
V	Kg	class 1	
primary voltage	medium weight	code	VA
100	3,45	TVRE20 100/.....(value of the secondary voltage)	20
110		TVRE20 110/.....(value of the secondary voltage)	20
115		TVRE20 115/.....(value of the secondary voltage)	20
230		TVRE20 230/.....(value of the secondary voltage)	20
380		TVRE20 380/.....(value of the secondary voltage)	20
400		TVRE20 400/.....(value of the secondary voltage)	20
440		TVRE20 440/.....(value of the secondary voltage)	20
500		TVRE20 500/.....(value of the secondary voltage)	20
600		TVRE20 600/.....(value of the secondary voltage)	20
800		TVRE20 800/.....(value of the secondary voltage)	20
1000	TVRE20 1000/.....(value of the secondary voltage)	20	

V	Kg	class 1	
primary voltage	medium weight	code (where R means $\sqrt{3}$ )	VA
100: $\sqrt{3}$	3,45	TVRE20 100R/.....(value of the secondary voltage)	10
110: $\sqrt{3}$		TVRE20 110R/.....(value of the secondary voltage)	10
115: $\sqrt{3}$		TVRE20 115R/.....(value of the secondary voltage)	10
230: $\sqrt{3}$		TVRE20 230R/.....(value of the secondary voltage)	10
380: $\sqrt{3}$		TVRE20 380R/.....(value of the secondary voltage)	10
400: $\sqrt{3}$		TVRE20 400R/.....(value of the secondary voltage)	10
440: $\sqrt{3}$		TVRE20 440R/.....(value of the secondary voltage)	10
500: $\sqrt{3}$		TVRE20 500R/.....(value of the secondary voltage)	10
600: $\sqrt{3}$		TVRE20 600R/.....(value of the secondary voltage)	10
800: $\sqrt{3}$		TVRE20 800R/.....(value of the secondary voltage)	10
1000: $\sqrt{3}$	TVRE20 1000R/.....(value of the secondary voltage)	10	

## TVRE50

- Construction according to the CEI and IEC regulation
- Metallic case
- Maximum reference voltage for insulation: 0,72 kV (1,2 kV if >800V)
- Test voltage: 3 kV a 50 Hz for 1 minute (6 kV if >800V)
- Permanent overload: 1,2 Vn
- Insulation in air
- Two sealable terminals cover included

- Protection degree: IP30
- Fixing to wall by incorporated accessories
- Primary voltages different from the standard can be manufactured on request
- Secondary voltages on request
- When ordering indicate exactly the primary and secondary voltages**



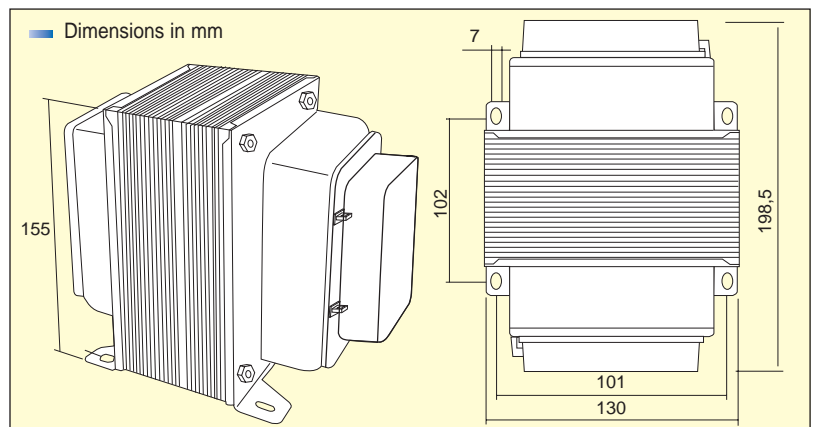
V	Kg	class 0,5	
primary voltage	medium weight	code	VA
100	6,35	TVRE50 100/.....(value of the secondary voltage)	50
110		TVRE50 110/.....(value of the secondary voltage)	50
115		TVRE50 115/.....(value of the secondary voltage)	50
230		TVRE50 230/.....(value of the secondary voltage)	50
380		TVRE50 380/.....(value of the secondary voltage)	50
400		TVRE50 400/.....(value of the secondary voltage)	50
440		TVRE50 440/.....(value of the secondary voltage)	50
500		TVRE50 500/.....(value of the secondary voltage)	50
600		TVRE50 600/.....(value of the secondary voltage)	50
800		TVRE50 800/.....(value of the secondary voltage)	50
1000	TVRE50 1000/.....(value of the secondary voltage)	50	

V	Kg	class 0,5	
primary voltage	medium weight	code (where R means $\sqrt{3}$ )	VA
100: $\sqrt{3}$	6,35	TVRE50 100R/.....(value of the secondary voltage)	25
110: $\sqrt{3}$		TVRE50 110R/.....(value of the secondary voltage)	25
115: $\sqrt{3}$		TVRE50 115R/.....(value of the secondary voltage)	25
230: $\sqrt{3}$		TVRE50 230R/.....(value of the secondary voltage)	25
380: $\sqrt{3}$		TVRE50 380R/.....(value of the secondary voltage)	25
400: $\sqrt{3}$		TVRE50 400R/.....(value of the secondary voltage)	25
440: $\sqrt{3}$		TVRE50 440R/.....(value of the secondary voltage)	25
500: $\sqrt{3}$		TVRE50 500R/.....(value of the secondary voltage)	25
600: $\sqrt{3}$		TVRE50 600R/.....(value of the secondary voltage)	25
800: $\sqrt{3}$		TVRE50 800R/.....(value of the secondary voltage)	25
1000: $\sqrt{3}$	TVRE50 1000R/.....(value of the secondary voltage)	25	

## TVRE100

- Construction according to the CEI and IEC regulation
- Metallic case
- Maximum reference voltage for insulation: 0,72 kV (1,2 kV if >800V)
- Test voltage: 3 kV a 50 Hz for 1 minute (6 kV if >800V)
- Permanent overload: 1,2 Vn
- Insulation in air
- Two sealable terminals cover included

- Protection degree: IP30
- Fixing to wall by incorporated accessories
- Primary voltages different from the standard can be manufactured on request
- Secondary voltages on request
- When ordering indicate exactly the primary and secondary voltages**



V	Kg	class 0,5	
primary voltage	medium weight	code	VA
100	10,15	TVRE100 100/.....(value of the secondary voltage)	100
110		TVRE100 110/.....(value of the secondary voltage)	100
115		TVRE100 115/.....(value of the secondary voltage)	100
230		TVRE100 230/.....(value of the secondary voltage)	100
380		TVRE100 380/.....(value of the secondary voltage)	100
400		TVRE100 400/.....(value of the secondary voltage)	100
440		TVRE100 440/.....(value of the secondary voltage)	100
500		TVRE100 500/.....(value of the secondary voltage)	100
600		TVRE100 600/.....(value of the secondary voltage)	100
800		TVRE100 800/.....(value of the secondary voltage)	100
1000	TVRE100 1000/.....(value of the secondary voltage)	100	

V	Kg	class 0,5	
primary voltage	medium weight	code (where R means $\sqrt{3}$ )	VA
100: $\sqrt{3}$	10,15	TVRE100 100R/.....(value of the secondary voltage)	50
110: $\sqrt{3}$		TVRE100 110R/.....(value of the secondary voltage)	50
115: $\sqrt{3}$		TVRE100 115R/.....(value of the secondary voltage)	50
230: $\sqrt{3}$		TVRE100 230R/.....(value of the secondary voltage)	50
380: $\sqrt{3}$		TVRE100 380R/.....(value of the secondary voltage)	50
400: $\sqrt{3}$		TVRE100 400R/.....(value of the secondary voltage)	50
440: $\sqrt{3}$		TVRE100 440R/.....(value of the secondary voltage)	50
500: $\sqrt{3}$		TVRE100 500R/.....(value of the secondary voltage)	50
600: $\sqrt{3}$		TVRE100 600R/.....(value of the secondary voltage)	50
800: $\sqrt{3}$		TVRE100 800R/.....(value of the secondary voltage)	50
1000: $\sqrt{3}$	TVRE100 1000R/.....(value of the secondary voltage)	50	