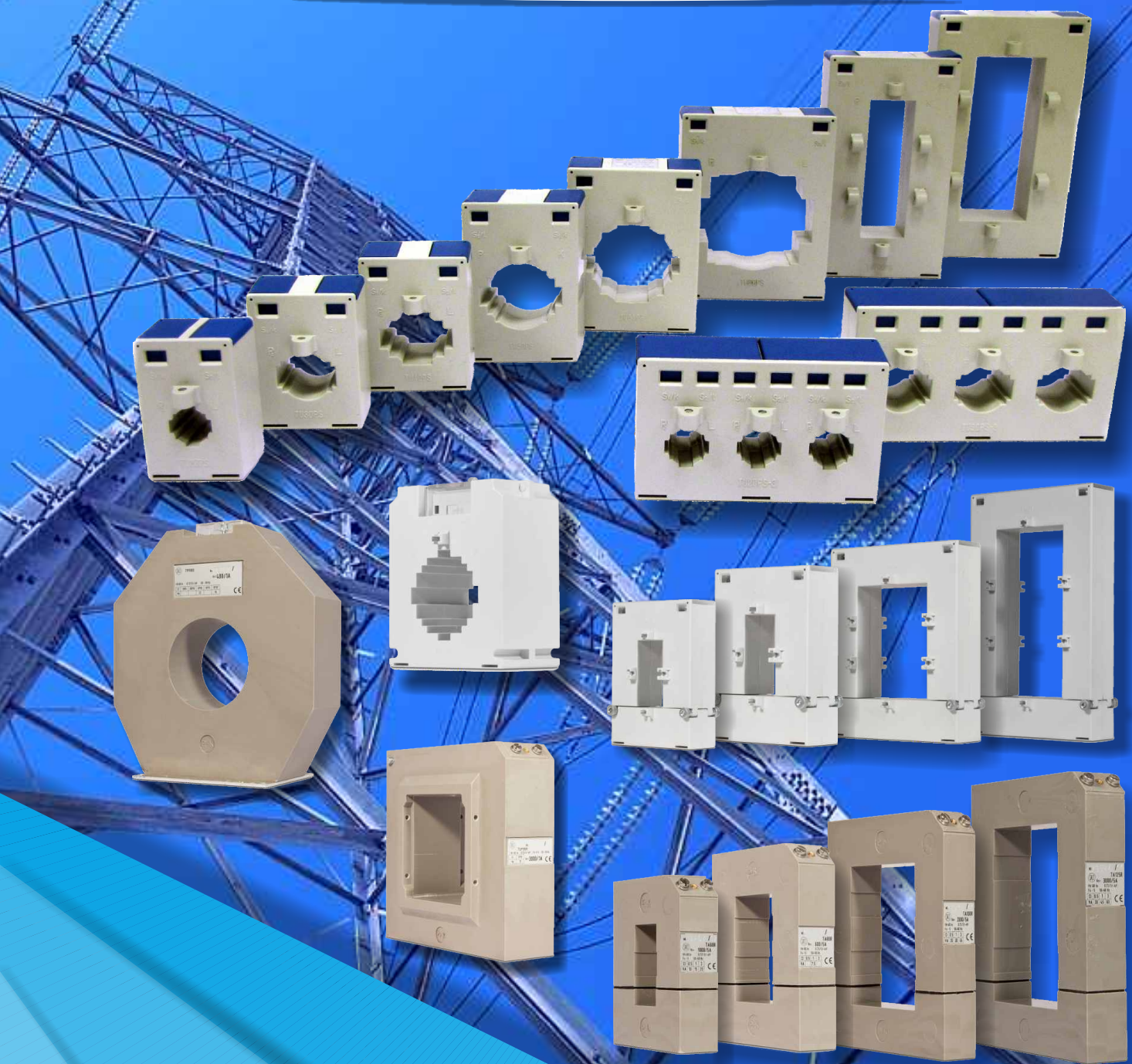
TRANSFORMERS



TRANSFORMERS

S.A. DE CONSTRUCCIONES INDUSTRIALES

RANGE OF PRODUCTS

MEASURING TRANSFORMER (PLASTIC CASING)

BUS-BAR

• NARROW PROFILE; PS, THREE-PHASE; PS-3 — TU__PS, TU__PS-3

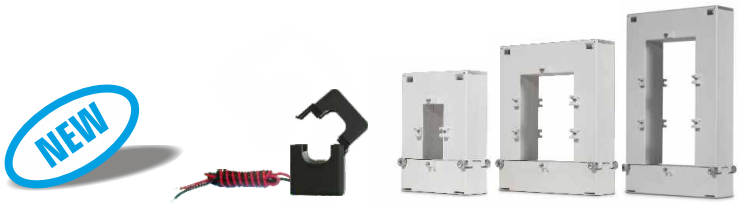
•OTHER MODELS — TU_, TUC_,TL_

WOUND PRIMARY

TU3_P , TU40CP

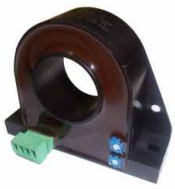
SPLIT CORE

TA__P



HALL EFFECT CURRENT TRANSDUCER

TEH-132



RANGE OF PRODUCTS

PROTECTION TRANSFORMERS (PLASTIC CASING)

BUS-BAR

TUC_, TL_

WOUND PRIMARY

TU3BC

WITH BUILT-IN MEASURING TRANSDUCER

TC_, TC_CV

MEASURING TRANSFORMERS (ENCAPSULATED IN RESIN)

INSULATION CLASS B (130 °C)

BUS-BAR

- NARROW PROFILE

TU_RS

- OTHER MODELS

TUP20RC, TUP_R

TPR_

Transform

RANGE OF PRODUCTS

MEASURING TRANSFORMERS (ENCAPSULATED IN RESIN) — INSULATION CLASS B (130 °C)

WOUND PRIMARY

TU3aR,TU3bR, TU3R

SPLIT CORE

TA_R

PROTECTION TRANSFORMERS (ENCAPSULATED IN RESIN) — INSULATION CLASS B (130 °C)

BUS-BAR

TUP20RC, TUP_R

WOUND PRIMARY

TU3PR

SUMMATION CURRENT & VOLTAGE TRANSFORMER (RESIN)

TRS, TE15P

OUTDOOR CURRENT TRANSFORMERS WITH CABLE (RESIN)

TU60PRI, TA60RI

NEW

CONTENTS

GENERAL FEATURES TR.07

MEASURING TRANSFORMERS (PLASTIC CASING)

- NARROW PROFILE TR.08-11
- WOUND PRIMARY TR.12
- WOUND PRIMARY TR.13
- BUS-BAR TR.14-16
- SPLIT CORE TR.17-18

HALL EFFECT CURRENT TRANSDUCER TR.19

MEASURING TRANSFORMERS (ENCAPSULATED IN RESIN)

- WOUND PRIMARY TR.20
- BUS-BAR TR.21
- MEASURING EQUIPMENT / ENERGY METERS TR.22
- SPLIT CORE TR.23
- NARROW PROFILE TR.24
- NARROW PROFILE – HORIZONTAL BUS-BAR TR.25-TR.26

PROTECTION TRANSFORMERS (PLASTIC CASING) TR.27

PROTECTION TRANSFORMERS (PLASTIC AND RESIN) TR.28

PROTECTION TRANSFORMERS (ENCAPSULATED IN RESIN) TR.29-TR.30

TRANSFORMERS WITH BUILT-IN MEASURING TRANSDUCER TR.31-TR.32

SUMMATION CURRENT TRANSFORMERS (ENCAPSULATED IN RESIN) TR.33

VOLTAGE TRANSFORMERS (ENCAPSULATED IN RESIN) TR.33

INDOOR CABLE CURRENT TRANSFORMERS (ENCAPSULATED IN RESIN) TR.34

GENERAL

Measuring and protection transformers. Wound primary, bus-bar, split core and narrow profile transformers
For cable or bus-bar.
Plastic or resin encapsulated casing (depending on type).
With fixing support and/or bar enclosing screws depending on type.
Fixing to DIN rail (on request)

STANDARDS

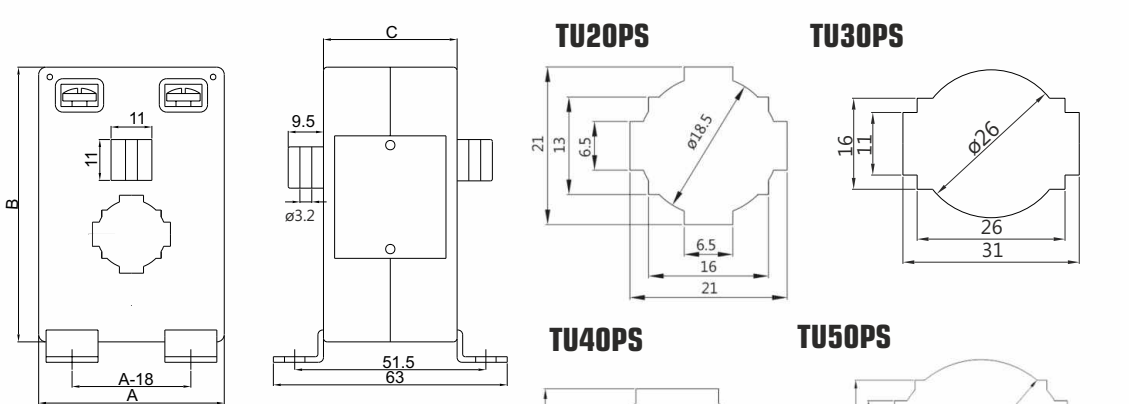
IEC 185
UNE EN 61869 (IEC 61869)
VDE 0414
IEC 801/1-3.4
DIN 57414
BS 3938
EN 50081
EN 50082
IEC 1010

GENERAL TECHNICAL SPECIFICATIONS

Security factor	Fs < 5
Rated voltage (maximum)	720 V
Test voltage	3 kV A.C. (1 min)
Frequency	50-60 Hz
Rated short-time thermal current	Ith = 60 In for wound primary transformers. Ith limited by cable sizes or primary bus-bar for other cases.
Rated dynamic current	IDyn = 2,5 x Ith
Continuous overload	ID = 1,2 x IN
Operating temperature	-10...50 ºC.
Accuracy	0,5 ; 1 and 3 (0,2S, 0,5S on request)
Rated secondary current	/5 or /1 A
Insulation class	Class E Class B (130 ºC) Available

NARROW PROFILE CURRENT TRANSFORMERS (PLASTIC CASING)

BUS-BAR TRANSFORMERS										
MODEL	TU20PS			TU30PS		TU40PS		TU50PS	
Bus-Bar	20x6			30x10		40x10		50x10	
Cable	Ø18			Ø25		Ø30		Ø40	
Accuracy Class	0,5	1	3	0,5	1	0,5	1	0,5	1
Ipn (A)	VA			VA		VA		VA	
30			0,5						
40			1						
50			1						
60		1	1,5						
75		1,5	1,5						
100		1,5	2,5		1,5				
125	1,5	2,5	3,75		1,5				
150	2,5	3,75	5	1,5	2,5		2		
200	3,75	5	5	2,5	3,75	2,5	3,75		
250	5	7,5	7,5	3,75	5	2,5	3,75		
300				3,75	5	5	5		
400				3,75	5	5	5	3,75	5
500				5	7,5	5	7,5	5	7,5
600				5	7,5	5	7,5	7,5	10
750						5	7,5	7,5	10
800						5	7,5	7,5	10
1000								10	15



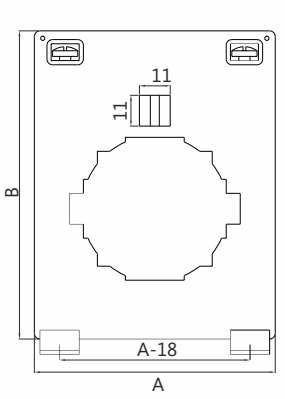
MODELS	A	B	C
TU20PS	50	74	36
TU30PS	58	78	36
TU40PS	62	82	36
TU50PS	72	103	36

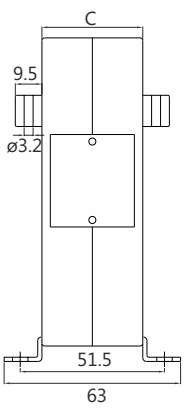
Dimensions in mm.

Transforma

NARROW PROFILE CURRENT TRANSFORMERS (PLASTIC CASING)

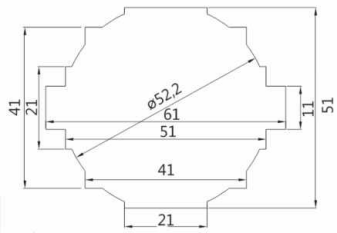
BUS-BAR TRANSFORMERS								
MODEL	TU60PS		TU80PS		TU100PS		TU125PS	
Bus-Bar	60x10		80x30		100x30		125x50	
Cable	Ø50		Ø70		-		-	
Accuracy Class	0,5	1	0,5	1	0,5	1	0,5	1
Ipn (A)	VA		VA		VA		VA	
400	5	5	5	7,5				
500	5	7,5	5	7,5	5	7,5	5	7,5
600	5	7,5	7,5	10	7,5	10	5	7,5
750	5	7,5	7,5	10	7,5	10	7,5	10
800	7,5	10	7,5	10	7,5	10	7,5	10
1000	10	15	10	15	10	15	10	15
1200	15	20	15	20	15	20	15	20
1500	15	20	15	20	15	20	15	20
1600	15	20	15	20	15	20	15	20
2000			15	20	15	20	20	25
2500					20	25	20	25
3000					20	25	20	25
4000							25	30





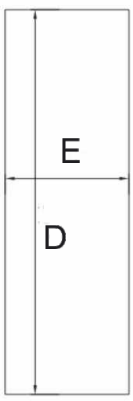
MODELS	A	B	C
TU60PS	86	110	36
TU80PS	106	132	36
TU100PS	95	165	36
TU125PS	115	190	36

TU60PS

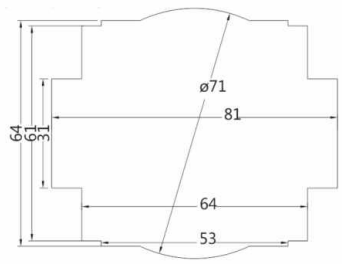


TU100PS TU125PS

MODELS	D	E
TU100PS	103	33
TU125PS	128	53



TU80PS



Dimensions in mm.

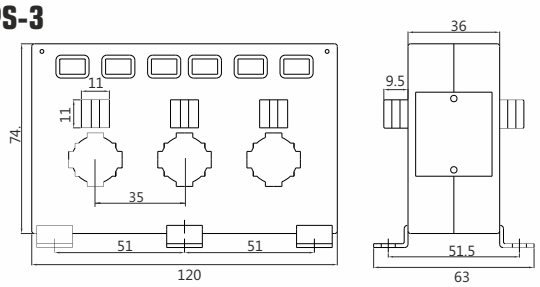
NARROW PROFILE CURRENT TRANSFORMERS (PLASTIC CASING)

TRHEE-PHASE

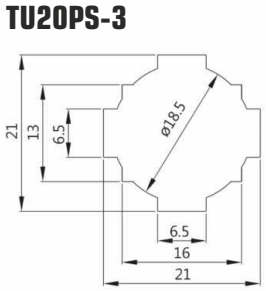
	BUS-BAR TRANSFORMERS				
MODEL	TU20PS-3			TU30PS-3	
Bus-Bar	20x6			30x10	
Cable	Ø18			Ø25	
Accuracy Class	0,5	1	3	0,5	1
Ipn (A)	VA			VA	
30			0,5		
40			1		
50			1		
60		1	1		
75		1	1,5		
100		1,25	1,5		
125	1	1,5	2,5		
150	1	1,5	2,5		1,5
200	1,5	2,5	3,75		2,5
250	2,5	3,75	5		2,5
300				2,5	2,5
400				2,5	2,5
500				3,75	3,75
600				5	5

DIMENSIONS

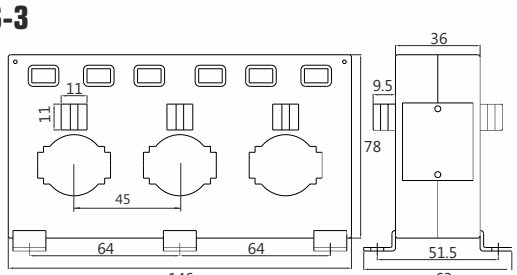
TU20PS-3



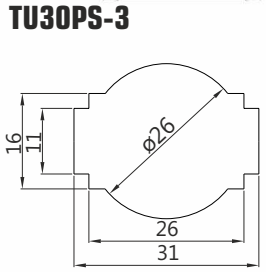
TU20PS-3



TU30PS-3



TU30PS-3



Dimensions in mm.

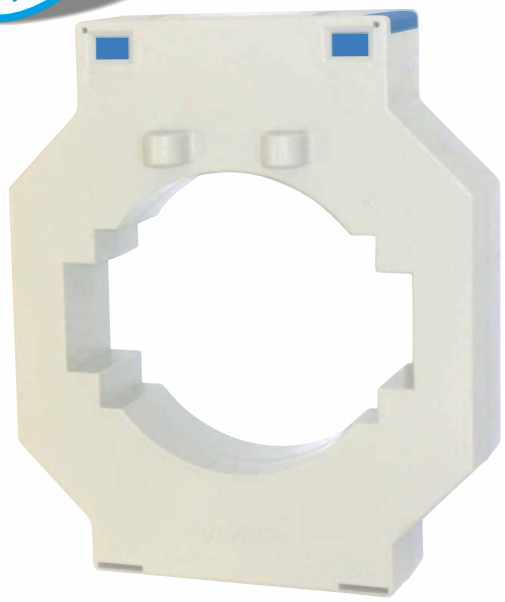
Transform

NARROW PROFILE CURRENT TRANSFORMERS (PLASTIC CASING)

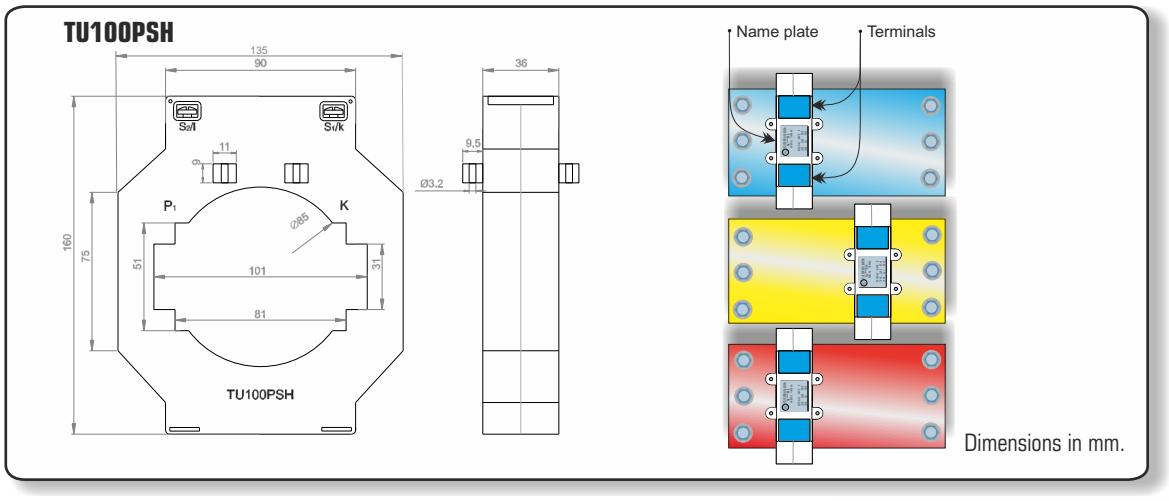
TU100PSH is fully adapted to small spaces between bus-bars

BUS-BAR TRANSFORMERS		
MODEL	TU100PSH	
Bus-Bar	100x30	
	80x50	
Cable	Ø85	
Accuracy Class	0,5	1
Ipn (A)	VA	
400		10
500	5	10
600	5	10
750	15	15
800	15	15
1000	15	15
1200	15	15
1500	15	15
1600	15	15
2000	15	15
2500	15	15
3000	15	15
4000	15	15
5000	15	15

NEW

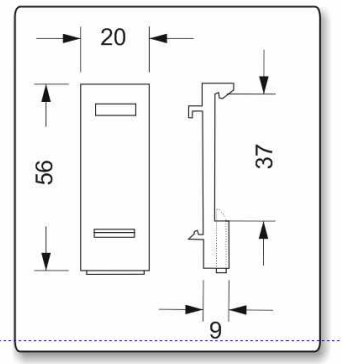


DIMENSIONS



ACCESSORY DIN RAIL

Accessories for DIN Rail incorporation, optionally available for the new line of narrow profile transformers.



CURRENT TRANSFORMERS (PLASTIC CASING) TU3_P , TU40CP

Also available in resin: TU3_PR

TU3BP

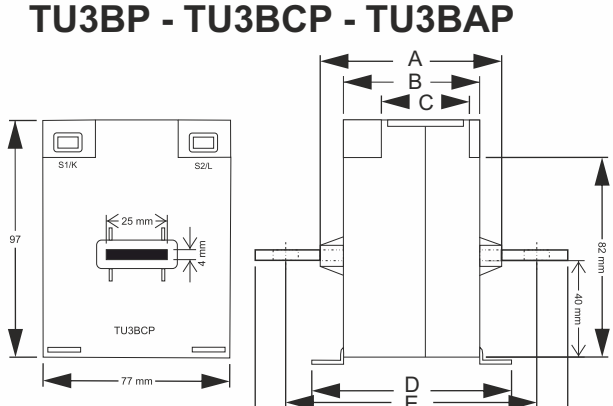
TU3AP

TU40CP

WOUND PRIMARY										
MODEL	TU3BP		TU3BCP		TU3BAP		TU3AP		TU40CP	
Bus Bar (mm)	4x25		4x25		4x25		-		-	
Cable (mm)	-		-		-		-		-	
Accuracy	0,5	1	0,5	1	0,5	1	0,5	1	0,5	1
Ipn (A)	VA		VA		VA		VA		VA	
5	10	15	15	20	5	7,5	2,5	5	5	7,5
10	10	15	15	20	5	7,5	2,5	5	5	7,5
15	10	15	15	20	5	7,5	2,5	5	5	7,5
20	10	15	15	20	5	7,5	2,5	5	5	7,5
25	10	15	15	20	5	7,5	2,5	5	5	7,5
30	10	15	15	20	5	7,5	2,5	5	5	7,5
40	10	15	15	20	5	7,5	2,5	5	5	7,5
50	10	15	15	20	5	7,5	2,5	5	5	7,5
60	10	15	15	20	5	7,5	2,5	5	5	7,5
75	10	15	15	20	5	7,5	2,5	5	5	7,5
100	10	15	15	20	5	7,5	2,5	5	5	7,5
125	10	15	15	20	5	7,5	2,5	5	5	7,5
150	10	15	15	20	5	7,5	2,5	5	5	7,5
200	10	15	15	20	5	7,5	2,5	5	5	7,5
250	10	15	15	20	5	7,5	2,5	5	5	7,5
300	10	15	15	20	5	7,5	2,5	5	5	7,5
400	10	15	15	20					5	7,5
500									5	7,5
600									5	7,5

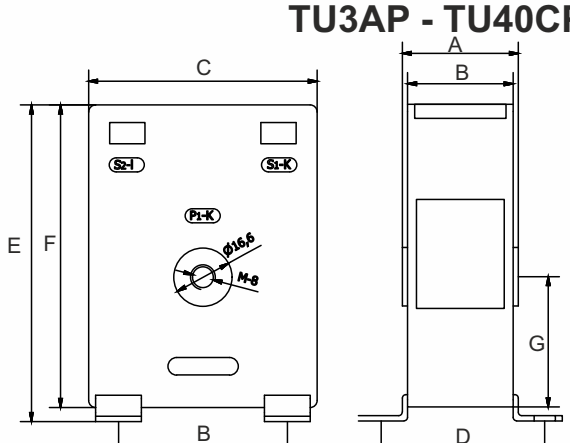
DIMENSIONS

TU3BP - TU3BCP - TU3BAP



	A	B	C	D	E	F
TU3BP	74	56	36	82	103	128
TU3BCP	86	67	36	93	114	140
TU3BAP	63	45	36	71	92	117

TU3AP - TU40CP



	A	B	C	D	E	F	G
TU3AP	33	30	65	48	90	86	37
TU40CP	51	46	72	64	93,5	89	40

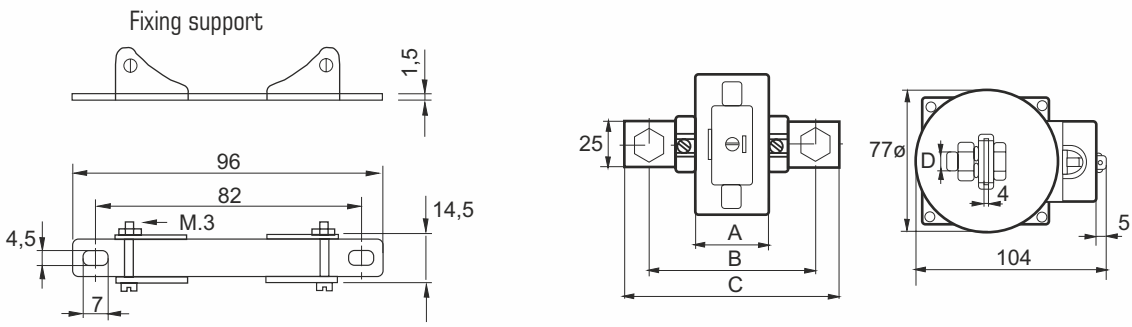
Dimensions in mm.

Transform

MEASURING TRANSFORMERS (PLASTIC CASING)

	WOUND PRIMARY							
MODEL	TU 3ba		TU3B			TU 3bc		
Accuracy Class	1	3	0,5	1	3	0,5	1	3
Ipn (A)	VA		VA			VA		
5	5	7,5	10	20	30	15	25	40
10	5	7,5	10	20	30	15	25	40
15	5	7,5	10	20	30	15	25	40
20	5	7,5	10	20	30	15	25	40
25	5	7,5	10	20	30	15	25	40
30	5	7,5	10	20	30	15	25	40
40	5	7,5	10	20	30	15	25	40
50	5	7,5	10	20	30	15	25	40
60	5	7,5	10	20	30	15	25	40
75	5	7,5	10	20	30	15	25	40
100			10	20	30	15	25	40
125			10	20	30	15	25	40
150			10	20	30	15	25	40

DIMENSIONS



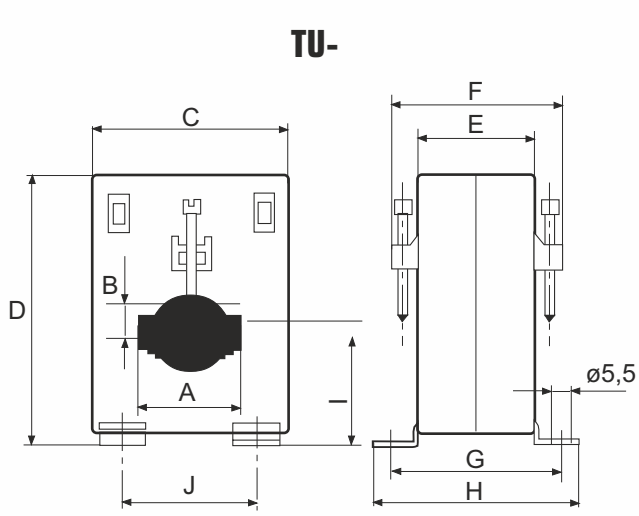
MODEL	TU3ba		TU3B		TU3bc	
Sizes in mm.	5/5 a 25/5	30/5 a 75/5	5/5 a 25/5	30/5 a 150/5	5/5 a 25/5	30/5 a 150/5
A	41		52		63	
B	81	90	92	101	103	112
C	101	115	112	126	123	137
D	M.6	M.10	M.6	M.10	M.6	M.10

Dimensions in mm.

MEASURING TRANSFORMERS (PLASTIC CASING)

BUS-BAR TRANSFORMERS									
MODEL	TU20			TU30			TU 40		
Bus-Bar	20x5			30x10			40x10		
Cable	Ø16			Ø22			Ø30		
Accuracy Class	0,5	1	3	0,5	1	3	0,5	1	3
Ipn (A)	VA			VA			VA		
30			1						
40			1						
50			1					0,75	1,5
60		1	2					1,25	2
75		1,5	2,5					2	3,75
100		2,5	3,75		1,25	2,5	1	3	5
125		3,75	5		1,25	2,5	2,5	3,75	5
150	3,75	5	7,5	1,5	2,5	3,75	3,75	5	7,5
200	5	7,5	10	2,5	3,75	5	3,75	5	7,5
250	7,5	10	15	3,75	5	7,5	5	7,5	10
300				3,75	5	7,5	7,5	10	15
400				3,75	5	7,5	10	15	20
500				5	7,5	10	10	15	20
600				5	7,5	10	10	15	20
750							10	15	20
800							15	20	30
1000							15	20	30

DIMENSIONS



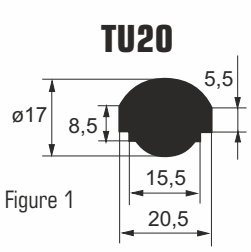


Figure 1

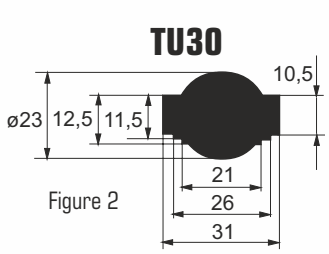


Figure 2

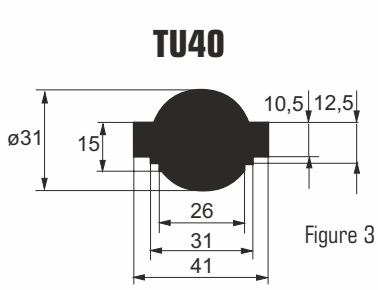


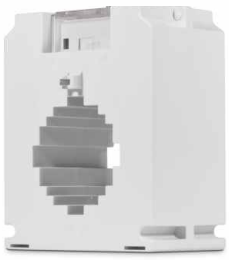
Figure 3

MODELS	A B	C	D	E	F	G	H	I	J
TU20	Figure 1	56	74	33	48,5	48,5	60	32,5	37
TU30	Figure 2	60	79	36	51,5	51,5	63	34,5	41
TU40	Figure 3	71	96	45,5	61	61	72,5	44,5	52

Dimensions in mm.

Transform

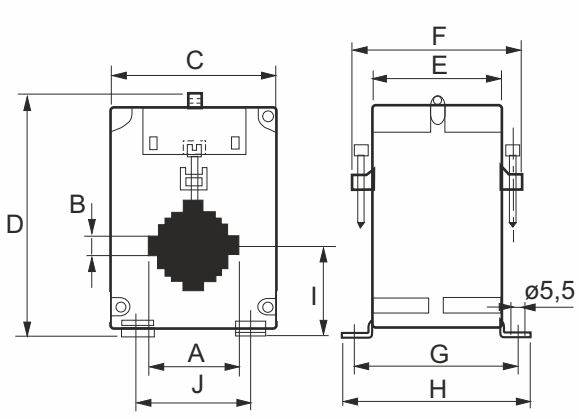
MEASURING TRANSFORMERS (PLASTIC CASING)



BUS-BAR TRANSFORMERS														
MODEL	TUC30			TUC40			TUC50	TU C60			TUC80			
Bus-Bar	30x10			40x10			50x10	60x10			80x30			
Cable	Ø25			Ø32			Ø40	Ø51			Ø65			
Accuracy Class	0,5	1	3	0,5	1	3	0,5	0,5	1	3	0,5	1	3	
Ipn (A)	VA			VA			VA	VA			VA			
50					0,75	1,5								
60					1,25	2								
75					2	3,75								
100				1	3	5								
125				2,5	3,75	5								
150				3,75	5	7,5								
200	15	20	30	3,75	5	7,5								
250	15	20	30	5	7,5	10								
300	15	20	30	7,5	10	15								
400	15	20	30	10	15	20	10	15	20	30	15	20	30	
500	15	20	30	10	15	20	10	15	20	30	15	20	30	
600	15	20	30	10	15	20	10	15	20	30	15	20	30	
750				10	15	20	10	15	20	30	15	20	30	
800				15	20	30	10	15	20	30	15	20	30	
1000				15	20	30	10	15	20	30	15	20	30	
1200							10	15	20	30	15	20	30	
1500							10	15	20	30	15	20	30	
2000							10	15	20	30	15	20	30	
2500											15	20	30	

DIMENSIONS

TUC-



TUC30

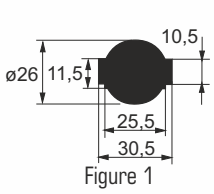


Figure 1

TUC40

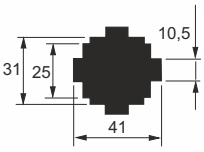


Figure 2

TUC50

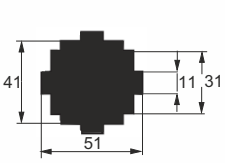


Figure 3

TUC60

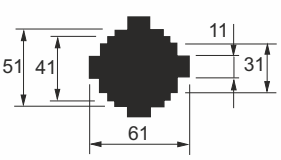


Figure 4

TUC80

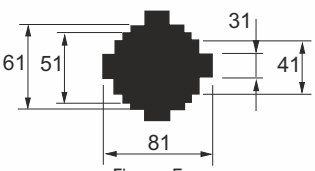


Figure 5

MODELS	A B	C	D	E	F	G	H	I	J
TUC30	Figure 1	77	112	60,5	76	76	87,5	44,5	41
TUC40	Figure 2	71	106,5	45	61	60,5	72	40	47
TUC50	Figure 3	84	117	45	61	60,5	72	44,5	61
TUC60	Figure 4	105	136,5	60	76	75,5	87	54	81
TUC80	Figure 5	131	161,5	60	76	75,5	87	69	107

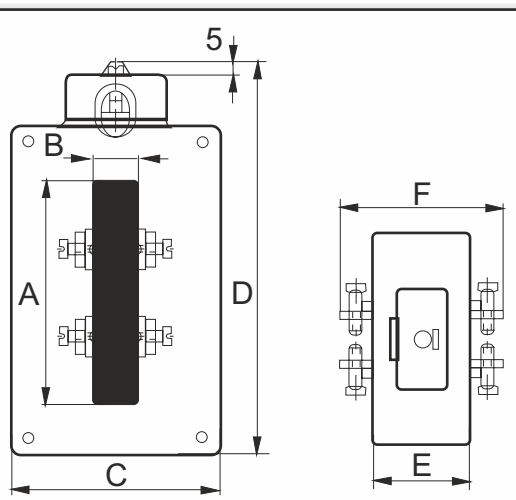
Dimensions in mm.

MEASURING TRANSFORMERS (PLASTIC CASING)

BUS-BAR TRANSFORMERS									
MODEL	TL2			TL3			TL4		
Bus-Bar	100x20			100x30			100x60		
Cable	Ø20			Ø30			Ø60		
Accuracy Class	0,5	1	3	0,5	1	3	0,5	1	3
Ipn (A)	VA			VA			VA		
750	10	20	30						
800	15	20	30						
1000	20	30	45						
1200	20	30	45						
1500	30	45	60	10	20	30			
2000	30	60	90	15	25	40	10	20	30
2500				25	30	45	10	20	30
3000				30	45	60	20	30	45
4000							30	60	90
5000							30	60	90

DIMENSIONS

TL-



MODELS	A	B	C	D	E	F
TL2	102	20	94	178	38	66
TL3	103	32	114	210	45	71
TL4	104	62	156	224	50	78

Dimensions in mm.

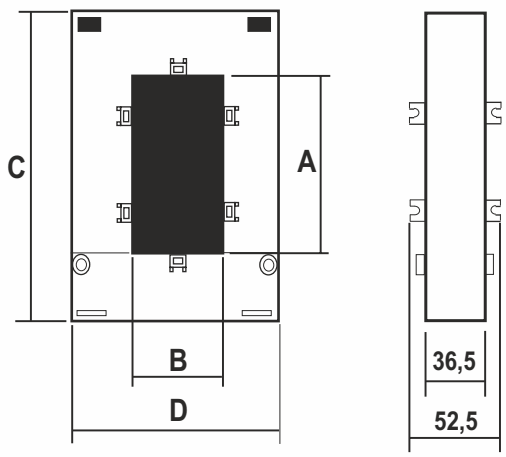
Transforma

SPLIT-CORE TRANSFORMERS (PLASTIC CASING)

SPLIT-CORE TRANSFORMERS																		
MODEL	TA30P			TA60P			TA80P			TA100P			TA125P			TA160P		
Bus-Bar	30x20			60x30			80x50			100x80			125x80			160x80		
Cable	Ø20			Ø30			Ø50			Ø80			Ø80			Ø80		
Accuracy	0,5	1	3	0,5	1	3	0,5	1	3	0,5	1	3	0,5	1	3	0,5	1	3
Ipn (A)	VA			VA			VA			VA			VA			VA		
100			3															
150			3,75															
200		2,5	4															
250		3,75	5		2,5	3,75		2,5	3,75		2,5	3,75						
300	2,5	4	6		3,75	5		3,75	5		3,75	5						
400	3,75	5	10	2,5	3,75	7,5	2,5	3,75	7,5	2,5	3,75	7,5						
500				3,75	5	15	3,75	5	15	3,75	5	15		5	7,5	2,5	3,75	7,5
600				5	7,5	20	5	7,5	20	5	7,5	20		5	15	3,75	5	10
750				7,5	10	20	7,5	10	20	7,5	10	20	5	10	20	5	10	20
800				7,5	10	20	7,5	10	20	7,5	10	20	7,5	10	20	7,5	10	20
1000				10	15	20	10	15	20	10	15	20	10	20	30	10	20	30
1200										15	20	30	15	20	30	15	20	30
1500										15	20	30	20	30	45	20	30	45
2000										20	30	45	25	30	45	25	30	45
2500													25	30	45	25	30	45
3000													30	45	60	30	45	60
4000																30	45	60
5000																30	45	60

DIMENSIONS

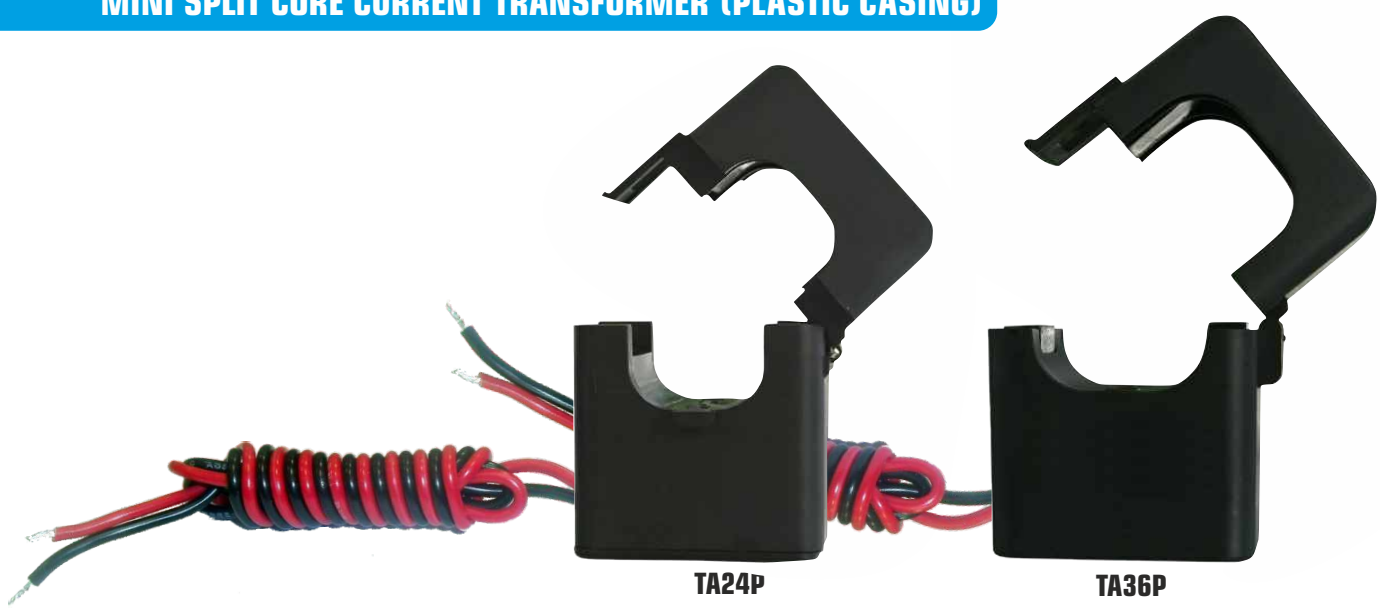
TA-P



MODELS	A	B	C	D
TA30P	32	22	106	90
TA60P	62	32	136	100
TA80P	82	52	156	120
TA100P	104	82	178	150
TA125P	127	82	201	150
TA160P	162	82	236	150

Dimensions in mm.

MINI SPLIT CORE CURRENT TRANSFORMER (PLASTIC CASING)



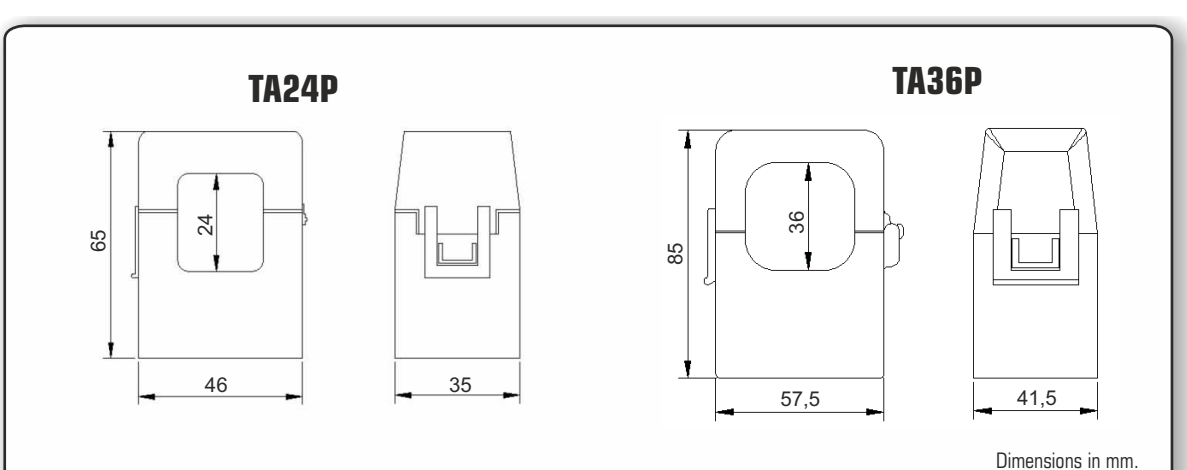
TECHNICAL SPECIFICATIONS

SECURITY DATA	
Continuous overload	1,5 x In
Rated short-time thermal current	60 x In
Rated dynamic current	2,5 x Ith
Rated voltage (maximum)	720 V AC.
Test voltage	3 kV, 1 min.
Frequency	50-60 Hz

ADDITIONAL INFORMATION	
Standard	EN 61869-2
Operating temperature	-15 ºC to +45º C
Storage temperature	-25 ºC to +75 ºC
Rated secondary current	/5 or /1 A
Integral cable length	1 m

MINI SPLIT CORE C.T				
MODEL	TA24P		TA36P	
Bus-Bar	-		-	
Cable	Ø24		Ø36	
Accuracy Class	0,5	1	0,5	1
Ipn	VA		VA	
100		1		1
200		1	1	1
300		1,5	1	1,5
400	1	1,5	2,5	5
500			5	7,5
600			5	10

DIMENSIONS



Dimensions in mm.

Transform

HALL EFFECT CURRENT TRANSDUCER - TEH-132

TECHNICAL DATA

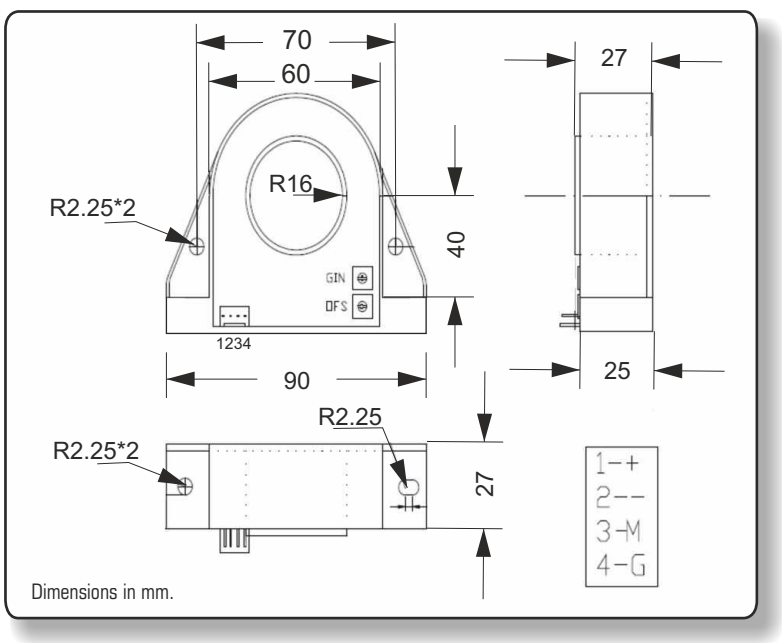
MODEL	TEH-132
Ipn (A)	100 200 300 400 500 600 1000 A
Range	±300 ±600 ±900 ±1100 ±1200 ±1300 ±1500 A

Voltage Supply (Vc):	±12 V - 15V DC (±5%)
Load resistor(RL):	>1 kΩ
Output Voltage (analog) ±Ipn(Vout):	±4 V
DC Accuracy:	± 0.5 %
AC Accuracy:	± 1 %
Linearity Error:	± 0.5 %
Electric offset Voltage:	<± 10 mV
Thermal Drift of Voe:	<± 1mV / °C
Thermal Drift of Vout:	± 0.05% / °C
Response time:	< 3 µs
Accurately Followed di/dt:	> 50 A/µs
BW Band width:	DC 50 kHz
VIS Isolation voltage:	5 KV
RIS Isolation resistor:	> 500 MΩ
Ic Current Consumption:	< 20 mA

GENERAL DATA

TA Ambient Operating Temperature:	-25 °C - +85 °C
TS Ambient Storage Temperature:	-25 °C - +85 °C
M Mass:	200 gr

DIMENSIONS



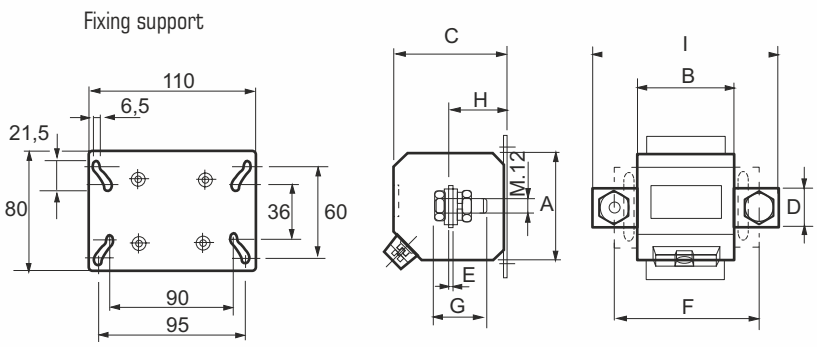
MEASURING TRANSFORMERS (ENCAPSULATED IN RESIN)

	WOUND PRIMARY			
MODEL	TU3R		TU50R	
Accuracy Class	0,5	1	0,5	1
Ipn (A)	VA		VA	
5				
10				
15				
20				
25				
30				
40				
50	15	25		
60	15	25		
75	15	25		
100	15	25		
125	15	25		
150	15	25		
200	15	25		
250	15	25		
300	15	25		
400	15	25	15	25
500	15	25	15	25
600	15	25	15	25
750			15	25
800			15	25

DIMENSIONS

TU3R - TU50R

Fixing support



MODELS	Ratio	A	B	C	D	E	F	G	H	I
TU3R	50/5-	80	73,5	96	30	5	110	38	42	140
TU3R	400/5-	80	73,5	101	30	10	110	48	47	140
TU50R	400/5-	100	73,5	100	50	10	135	48	50	175

Dimensions in mm.

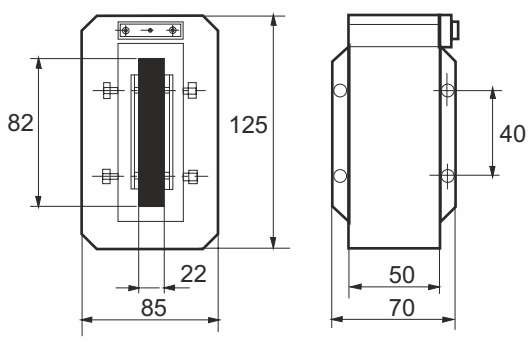
Transforma

MEASURING TRANSFORMERS (ENCAPSULATED IN RESIN)

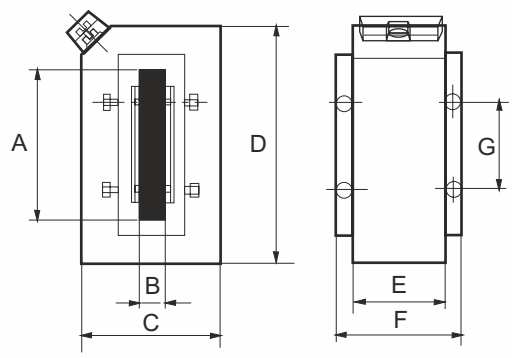
BUS-BAR TRANSFORMERS								
MODEL	TUP20RC		TUP20R		TUP60R		TUP95R	
Bus-Bar	80x20		100x20		100x60		100x95	
Cable	Ø20		Ø20		Ø60		Ø95	
Accuracy Class	0,5	1	0,5	1	0,5	1	0,5	1
Ipn (A)	VA		VA		VA		VA	
500	10	15						
600	15	25						
750	15	25	15	25				
800	15	25	15	25				
1000	15	25	15	25				
1200	15	25	15	25				
1500	15	25	15	25				
2000			15	25	15	25		
2500					15	25		
3000					15	25	15	25
4000					15	25	15	25
5000							15	25

DIMENSIONS

TUP20RC



TUP-R



MODELS	A	B	C	D	E	F	G
TUP20R	105	20	95	160	60	80	60
TUP60R	105	60	150	193	60	80	60
TUP95R	105	95	200	200	60	80	60

Dimensions in mm.

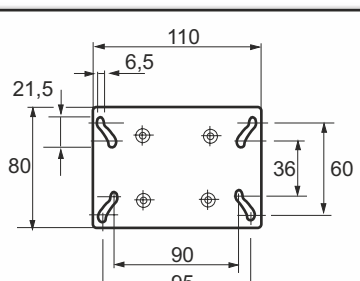
MEASURING TRANSFORMERS (ENCAPSULATED IN RESIN)

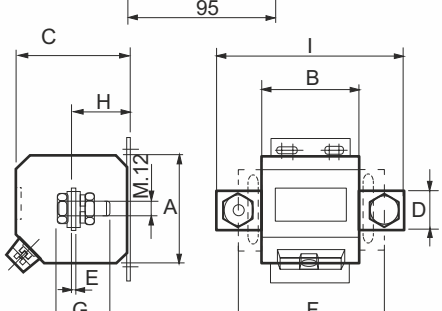
MEASURING EQUIPMENT / ENERGY METERS

	WOUND PRIMARY	BUS-BAR
MODEL	TU3R	TUP20R
Bus-Bar	-	100x20
Cable	-	Ø20
Accuracy Class	0,5 S	0,5 S
Ipn (A)	VA	VA
50	10	
60	10	
75	10	
100	10	
125	10	
150	10	
200	10	
250	10	
300	10	
400	10	
500	10	
600	10	
750		10
800		10
1000		10
1200		10
1500		10
2000		10

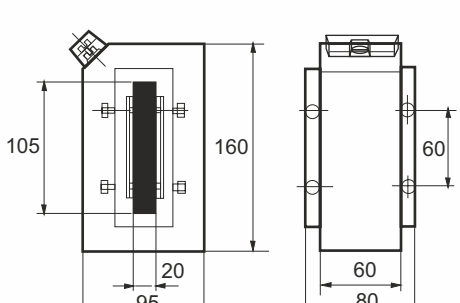
DIMENSIONS

TU3R





TUP20R



MODELS	Ratio	A	B	C	D	E	F	G	H	I
TU3R	50/5-	80	73,5	96	30	5	110	38	42	140
TU3R	400/5-	80	73,5	101	30	10	110	48	47	140

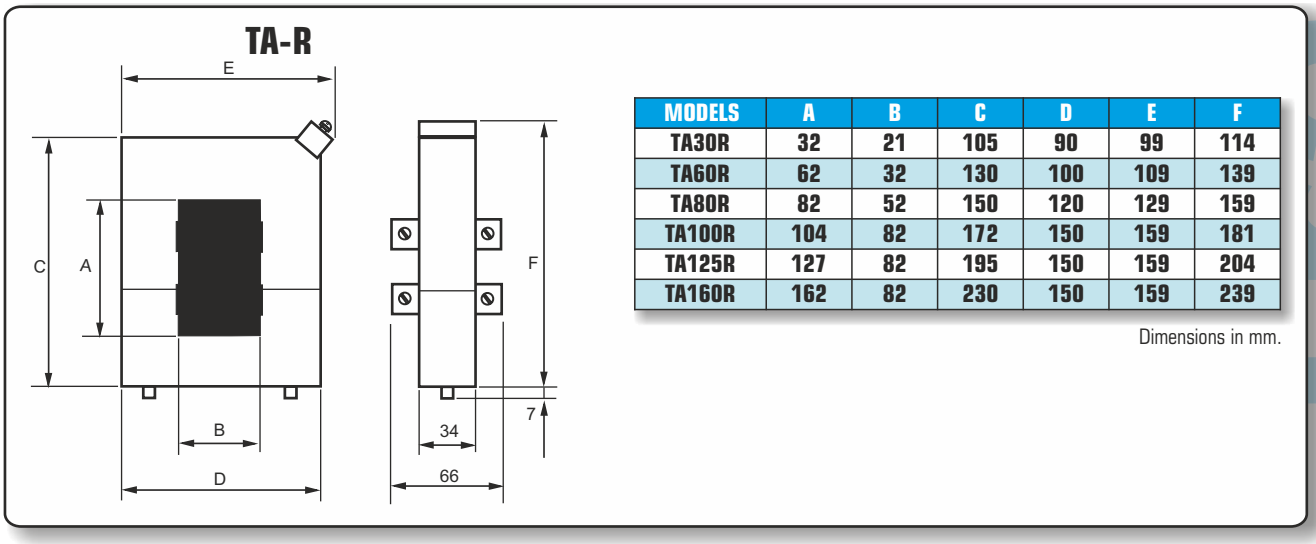
Dimensions in mm.

Transform

SPLIT-CORE TRANSFORMERS (ENCAPSULATED IN RESIN)

SPLIT-CORE TRANSFORMERS																		
MODEL	TA30R			TA60R			TA80R			TA100R			TA125R			TA160R		
Bus-Bar	30x20			60x30			80x50			100x80			125x80			160x80		
Cable	Ø20			Ø30			Ø50			Ø80			Ø80			Ø80		
Accuracy	0,5	1	3	0,5	1	3	0,5	1	3	0,5	1	3	0,5	1	3	0,5	1	3
Ipn (A)	VA			VA			VA			VA			VA			VA		
100			3															
150			3,75															
200		2,5	4															
250		3,75	5		2,5	3,75		2,5	3,75		2,5	3,75						
300	2,5	4	6		3,75	5		3,75	5		3,75	5						
400	3,75	5	10	2,5	3,75	7,5	2,5	3,75	7,5	2,5	3,75	7,5						
500				3,75	5	15	3,75	5	15	3,75	5	15		5	7,5	2,5	3,75	7,5
600				5	7,5	20	5	7,5	20	5	7,5	20		5	15	3,75	5	10
750				7,5	10	20	7,5	10	20	7,5	10	20	5	10	20	5	10	20
800				7,5	10	20	7,5	10	20	7,5	10	20	7,5	10	20	7,5	10	20
1000				10	15	20	10	15	20	10	15	20	10	20	30	10	20	30
1200										15	20	30	15	20	30	15	20	30
1500										15	20	30	20	30	45	20	30	45
2000										20	30	45	25	30	45	25	30	45
2500													25	30	45	25	30	45
3000													30	45	60	30	45	60
4000																30	45	60
5000																30	45	60

DIMENSIONS



MODELS	A	B	C	D	E	F
TA30R	32	21	105	90	99	114
TA60R	62	32	130	100	109	139
TA80R	82	52	150	120	129	159
TA100R	104	82	172	150	159	181
TA125R	127	82	195	150	159	204
TA160R	162	82	230	150	159	239

Dimensions in mm.

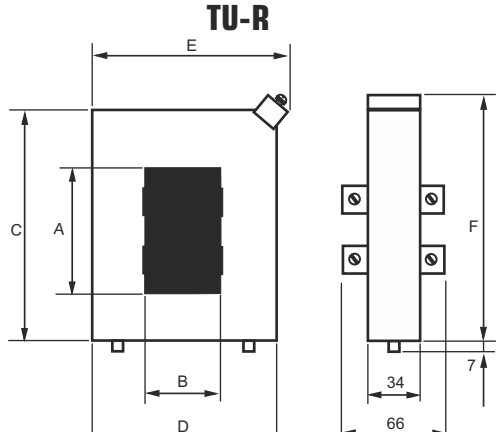
MEASURING TRANSFORMERS (ENCAPSULATED IN RESIN)

NARROW PROFILE

BUS-BAR TRANSFORMERS																		
MODEL	TU30R			TU60R			TU80R			TU100R			TU125R			TU160R		
Bus-Bar	30x20			60x30			80x50			100x80			125x80			160x80		
Cable	Ø20			Ø30			Ø50			Ø80			Ø80			Ø80		
Accuracy	0,5	1	3	0,5	1	3	0,5	1	3	0,5	1	3	0,5	1	3	0,5	1	3
Ipn (A)	VA			VA			VA			VA			VA			VA		
100			3,75															
150		3,75	5															
200		5	7,5															
250	5	7,5	10	2,5	3,75	5	2,5	3,75	5	2,5	3,75	5						
300	5	7,5	10	3,75	5	7,5	3,75	5	7,5	3,75	5	7,5						
400	7,5	10	15	5	7,5	10	5	7,5	10	5	7,5	10						
500				7,5	10	15	7,5	10	15	7,5	10	15	10	15	20	10	15	20
600				10	15	20	10	15	20	10	15	20	15	20	30	15	20	30
750				15	20	30	15	20	30	15	20	30	15	20	30	15	20	30
800				15	20	30	15	20	30	15	20	30	15	20	30	15	20	30
1000				15	20	30	15	20	30	15	20	30	15	20	30	15	20	30
1200										15	20	30	15	20	30	15	20	30
1500										15	20	30	15	20	30	15	20	30
2000										15	20	30	15	20	30	15	20	30
2500													15	20	30	15	30	30
3000													15	20	30	15	20	30
4000													15	20	30	15	20	30
5000																15	20	30
6000																15	20	30

DIMENSIONS

TU-R



MODELS	A	B	C	D	E	F
TU30R	32	21	105	90	99	114
TU60R	62	32	130	100	109	139
TU80R	82	52	150	120	129	159
TU100R	104	82	172	150	159	181
TU125R	127	82	195	150	159	204
TU160R	162	82	230	150	159	239

Dimensions in mm.

Transform

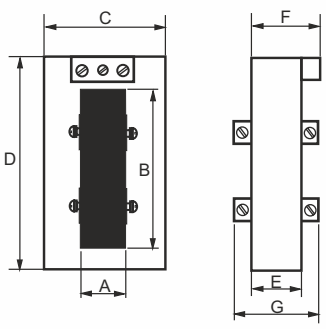
MEASURING TRANSFORMERS (ENCAPSULATED IN RESIN)

NARROW PROFILE - HORIZONTAL BUS-BAR

	BUS-BAR TRANSFORMERS												BUS-BAR TRANSFORMERS					
MODEL	TU60RS			TU80RS			TU100RS			TU125RS			TU100RT			TU125RT		
Bus-Bar	15x60			50x80			60x100			80x125			100x20			125x35		
Cable	Ø45			Ø50			Ø60			Ø80			Ø20			Ø35		
Accuracy	0,5	1	3	0,5	1	3	0,5	1	3	0,5	1	3	0,5	1	3	0,5	1	3
Ipn (A)	VA			VA			VA			VA			VA			VA		
400	5	7,5	10	5	7,5	10												
500	7,5	10	15	5	7,5	10												
600	10	15	20	10	15	20												
750	10	15	20	10	15	20	15	20	30				10	20	30			
800	10	15	20	10	15	20	15	20	30				15	20	30	7,5	10	15
1000	10	15	20	10	15	20	15	20	30				20	30	45	7,5	10	15
1200	10	15	20	10	15	20	15	20	30				20	30	45	7,5	10	15
1500	10	15	20	10	15	20	15	20	30				30	45	60	10	15	20
2000	10	15	20	10	15	20	15	20	30	15	20	30	30	60	90	15	20	30
2500				10	15	20	15	20	30	15	20	30				20	25	30
3000							15	20	30	15	20	30				25	30	45
4000										15	20	30						
5000										15	20	30						
6000										15	20	30						

DIMENSIONS

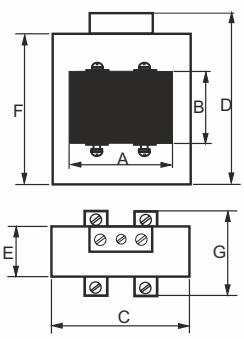
TU-RT

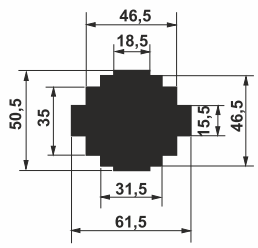


MODELS	A	B	C	D	E	F	G
TU100RT	22	101	83	145	40	55	66
TU125RT	38	127	98	170	40	55	66

Dimensions in mm.

TU-RS





TU60RS

Figure 1

MODELS	A	B	C	D	E	F	G
TU60RS	Figure 1		90	115	40	103	66
TU80RS	82	57	110	135	40	120	66
TU100RS	102	62	140	153	34	130	66
TU125RS	127	82	165	189	42	166	66

Dimensions in mm.

MEASURING TRANSFORMERS (ENCAPSULATED IN RESIN)

NARROW PROFILE - HORIZONTAL BUS-BAR

	BUS-BAR TRANSFORMERS											
MODEL	TU40RS			TU40RSD			TU100RTC			TU125RTC		
Bus-Bar	40x10			37x18			100x20			125x35		
Cable	Ø25			Ø36			Ø20			Ø35		
Accuracy Class	0,5	1	3	0,5	1	3	0,5	1	3	0,5	1	3
Ipn (A)	VA			VA			VA			VA		
200				5	7,5	10						
250				5	7,5	10						
300	10	15	20	10	15	20						
400	10	15	20	10	15	20						
500	10	15	20	10	15	20						
600	10	15	20	10	15	20						
750	10	15	20	10	15	20	10	20	30			
800	10	15	20	10	15	20	15	20	30	7,5	10	15
1000	10	15	20	10	15	20	20	30	45	7,5	10	15
1200							20	30	45	7,5	10	15
1500							30	45	60	10	15	20
2000							30	45	60	15	20	30
2500							30	45	60	20	25	30
3000							30	45	60	25	30	45

DIMENSIONS

TU40RS

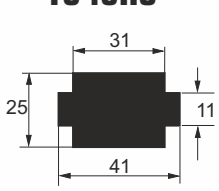
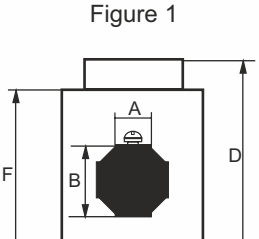
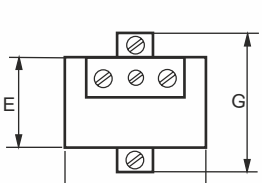


Figure 1





TU40RSD

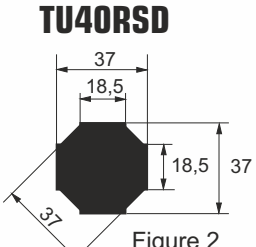
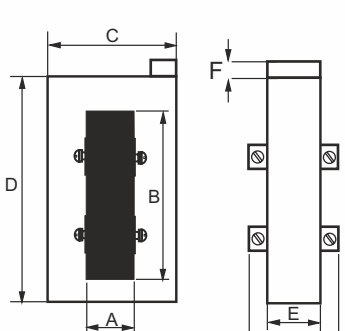


Figure 2

TU-RTC



MODELS	A	B	C	D	E	F	G
TU40RS	Figure 1		72	100	48	90	71
TU40RSD	Figure 2		72	100	48	90	71

Dimensions in mm.

MODELS	A	B	C	D	E	F	G
TU100RTC	22	101	83	145	40	15	66
TU125RTC	38	127	98	170	40	15	66

Dimensions in mm.

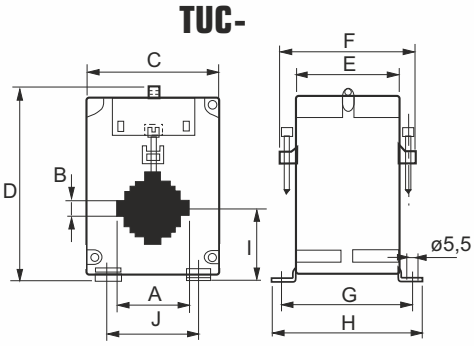
Transforma

PROTECTION TRANSFORMERS (PLASTIC CASING)

	BUS-BAR TRANSFORMERS											
MODEL	TU C30		TUC60		TU C80		TL2		TL3		TL4	
Bus-Bar	30x10		60x10		80x30		100x20		100x30		100x60	
Cable	Ø25		Ø51		Ø65		Ø20		Ø30		Ø60	
Accuracy	5P10	10P10	5P10	10P10	5P10	10P10	5P10	10P10	5P10	10P10	5P10	10P10
Ipn (A)	VA		VA		VA		VA		VA		VA	
200	3,5	5	3,5	3,5	3,5	3,5						
250	5	5	3,5	3,5	3,5	3,5						
300	5	7,5	5	5	5	5						
400			5	5	5	5						
500			5	7,5	5	7,5						
600			7,5	10	7,5	10						
750			7,5	10	7,5	10						
800			10	10	10	10						
1000			10	10	10	10						
1200			10	10	10	10						
1500			10	12,5	10	12,5						
2000			10	12,5	10	12,5	5	7,5				
2500							5	7,5	7,5	10		
3000									7,5	10	5	7,5
4000											7,5	10
5000											7,5	10

DIMENSIONS

TUC-



TUC30

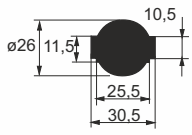


Figure 1

TUC60

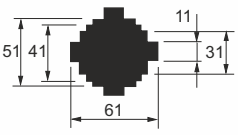


Figure 2

TUC80

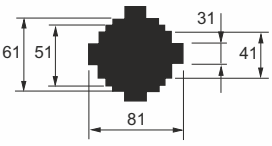
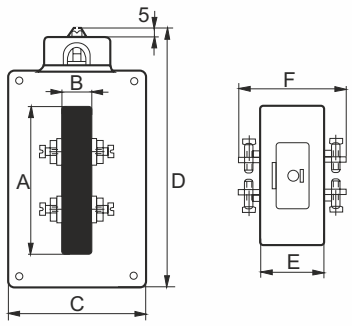


Figure 3

MODELS	A B	C	D	E	F	G	H	I	J
TUC30	Figure 1	77	112	60,5	76	76	87,5	44,5	41
TUC60	Figure 2	105	136,5	60	76	75,5	87	54	81
TUC80	Figure 3	131	161,5	60	76	75,5	87	69	107

Dimensions in mm.

TL-



MODELS	A	B	C	D	E	F
TI2	102	20	94	178	38	66
TL3-	103	32	114	210	45	71
TL 4	104	62	156	224	50	78

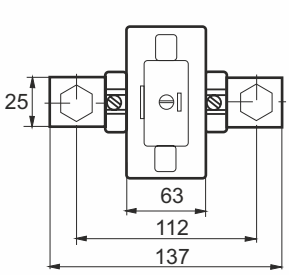
Dimensions in mm.

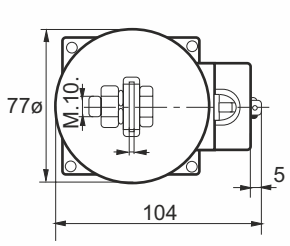
PROTECTION TRANSFORMERS

	PRIMARY WOUND				BUS-BAR IN RESIN	
	IN PLASTIC		IN RESIN			
MODEL	TU3bc		TU3PR		TU50R	
Accuracy Class	5P10	10P10	5P10	10P10	5P10	10P10
Ipn (A)	VA		VA		VA	
50	3,5	3,5	10	10		
60	3,5	3,5	10	10		
75	3,5	3,5	10	10		
100	3,5	3,5	10	10		
125	3,5	3,5	10	10		
150	3,5	3,5	10	10		
200			10	10		
250			10	10		
300			10	10		
400			10	10		
500					7,5	7,5
600					7,5	7,5
750					10	12,5
800					10	12,5

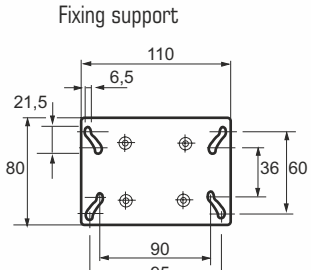
DIMENSIONS

TU3bc

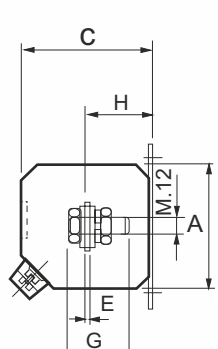


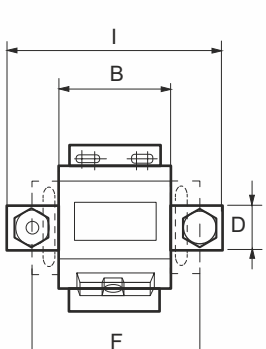


Fixing support



TU-R





MODELS	Ratio	A	B	C	D	E	F	G	H	I
TU3PR	50-300/5	100	75	110	30	5	110	38	55	140
TU3PR	400-600/5	100	75	110	30	10	110	48	60	140
TU50R	500-800/5	100	75	100	50	10	135	48	50	175

Dimensions in mm.

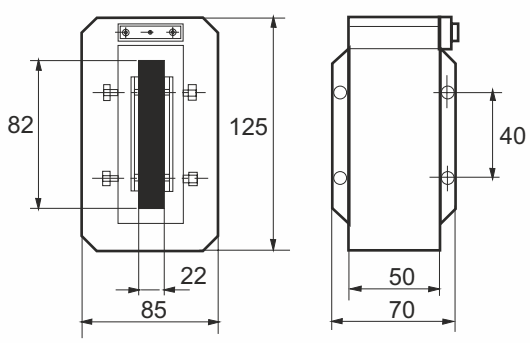
Transform

PROTECTION TRANSFORMERS (ENCAPSULATED IN RESIN)

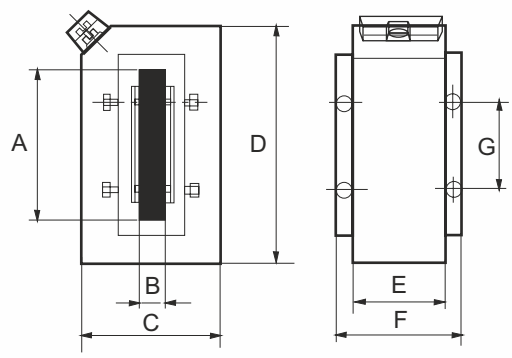
	BUS-BAR TRANSFORMERS							
MODEL	TUP20RC		TUP20R		TUP60R		TUP95R	
Bus-Bar	80x20		100x20		100x60		100x95	
Cable	Ø20		Ø20		Ø60		Ø95	
Accuracy Class	5P10	10P10	5P10	10P10	5P10	10P10	5P10	10P10
Ipn (A)	VA		VA		VA		VA	
500	3,5	5						
600	3,5	5						
750	3,5	5	7,5	10				
800	3,5	5	7,5	10				
1000	5	5	12,5	15	12,5	15		
1200			15	15	15	15		
1500			15	20	15	20		
2000			15	20	15	20		
2500					15	20		
3000					20	30	15	20
4000							20	30
5000							20	30

DIMENSIONS

TUP20RC



TUP-R



MODELS	A	B	C	D	E	F	G
TUP20R	105	20	95	160	60	80	60
TUP60R	105	60	150	193	60	80	60
TUP95R	105	95	200	200	60	80	60

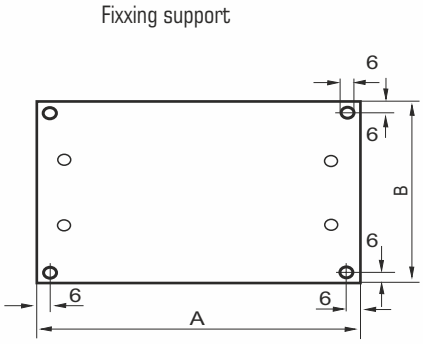
Dimensions in mm.

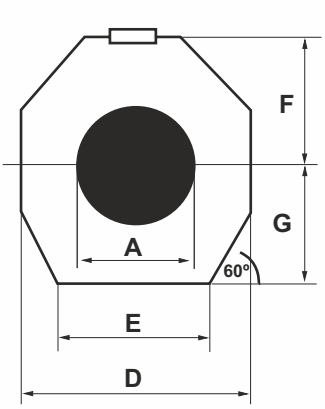
PROTECTION TRANSFORMERS (ENCAPSULATED IN RESIN)

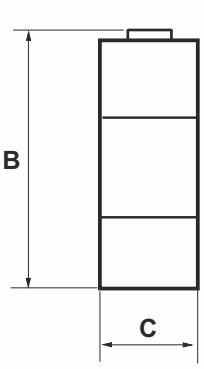
	BUS-BAR TRANSFORMERS							
MODEL	TPR60		TPR80		TPR100		TPR125	
Bus-Bar	-		-		-		-	
Cable	Ø60		Ø80		Ø100		Ø125	
Accuracy Class	5P10	5P20	5P10	5P20	5P10	5P20	5P10	5P20
Ipn (A)	VA		VA		VA		VA	
100	10	5						
150	15	7						
200	20	10						
250	25	12	12	5				
300	30	15	15	7				
400	40	20	22	10				
500	50	25	30	12	15	7		
600	60	30	35	15	15	8		
750	75	38	45	18	20	10		
800	80	40	48	20	25	12		
1000	100	50	48	20	30	15	20	10
1200			48	22	30	17	30	15
1500			73	28	40	20	30	15
2000			97	35	60	30	30	15
2500					65	35	40	20
3000					65	35	40	20
4000					80	45	50	25
5000					120	70	70	35

DIMENSIONS

Fixxing support







MODELS	A	B
TPR60	124	120
TPR80	136	100
TPR100	150	100
TPR125	166	100

Dimensions in mm.

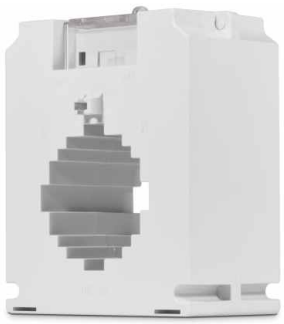
MODELS	A	B	C	D	E	F	G
TPR60	62	211	80	185	124	110	93
TPR80	82	231	60	205	136	120	103
TPR100	102	251	60	225	150	130	113
TPR125	127	276	60	250	166	143	125

Dimensions in mm.

Transform

TRANSFORMERS WITH BUILT-IN MEASURING TRANSDUCER

(PLASTIC CASING)



TECHNICAL SPECIFICATIONS:

Operating range: 10-120%
Maximum load impedance: 600 Ω
Frequency: 50-60 Hz
Response time: <200 ms

	BUS-BAR TRANSFORMERS		
MODEL	TC40	TC60	TC80
Bus-Bar	40x10	60x10	80x30
Cable	Ø32	Ø51	Ø65
Accuracy Class	1	1	1
Ipn (A)	Output (mA)	Output (mA)	Output (mA)
50	20		
60	20		
75	20		
100	20		
125	20		
150	20		
200	20		
250	20		
300	20		
400	20	20	20
500		20	20
600		20	20
750		20	20
800		20	20
1000		20	20
1200		20	20
1500		20	20
2000		20	20
2500			20

DIMENSIONS

TC40

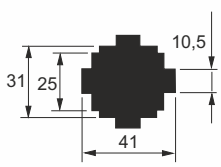


Figure 1

TC60

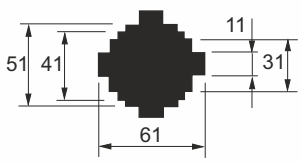


Figure 2

TC80

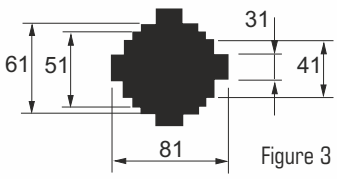
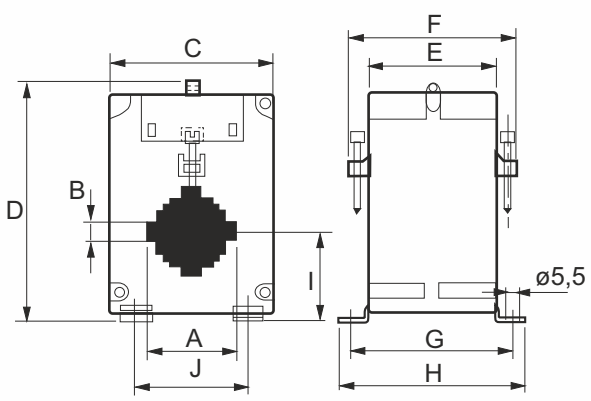


Figure 3

TC-



MODELS	A B	C	D	E	F	G	H	I	J
TC 40	Figure 1	71	106,5	45	61	60,5	72	40	47
TC 60	Figure 2	105	136,5	60	76	75,5	87	54	81
TC 80	Figure 3	131	161,5	60	76	75,5	87	69	107

Dimensions in mm.

TRANSFORMERS WITH BUILT-IN MEASURING TRANSDUCER

(PLASTIC CASING)

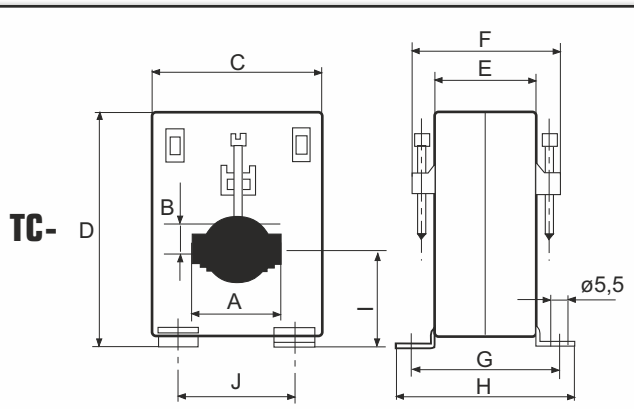
Selection of transformer ratio by switch

	BUS-BAR TRANSFORMERS		
MODEL	TC20CV	TC30CV	TC40CV
Bus-Bar	20x5	30x10	40x10
Cable	Ø16	Ø22	Ø30
Accuracy	1	1	1
Ipn (A)	Output (mA)	Output (mA)	Output (mA)
10; 12,5; 15 & 20	4-20		
20; 25; 30 & 40	4-20	4-20	
50; 60; 75 & 100	4-20	4-20	4-20
125; 150; 200 & 250	4-20	4-20	4-20
300; 400; 500 & 600		4-20	4-20

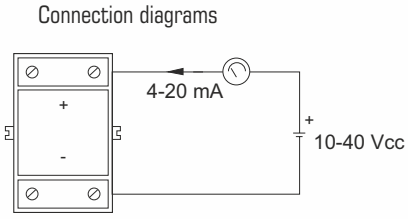
TECHNICAL SPECIFICATIONS:

Operating range: 10-120%
Maximum load impedance: 600 Ω
Frequency: 50-60 Hz
Response time: <200 ms

DIMENSIONS



Connection diagrams



TC20

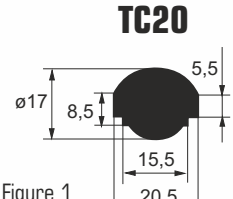


Figure 1

TC30

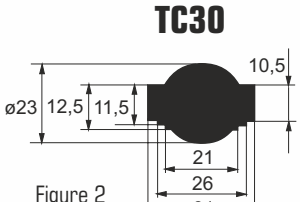


Figure 2

TC40

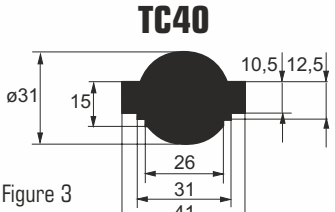


Figure 3

MODELS	A B	C	D	E	F	G	H	I	J
TC20CV	Figure 1	56	74	33	48,5	48,5	60	32,5	37
TC30CV	Figure 2	60	79	36	51,5	51,5	63	34,5	41
TC40CV	Figure 3	71	96	45,5	61	61	72,5	44,5	52

Dimensions in mm.

Transform

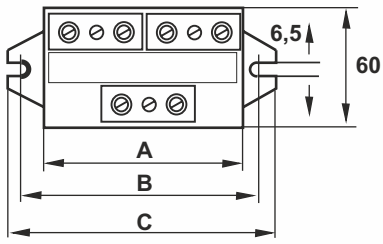
SUMMATION CURRENT TRANSFORMERS (ENCAPSULATED IN RESIN)

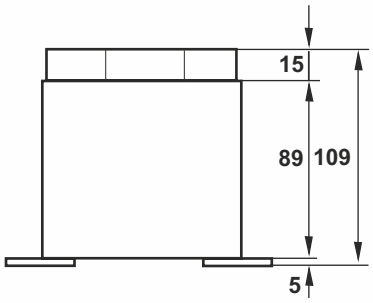
TRS-

SUMMATION CURRENT TRANSFORMERS				
MODEL	TRS2	TRS3	TRS4	TRS5
Accuracy	0,5	0,5	0,5	0,5
VA	10	10	10	10
Ipn	5+5 / 5	5+5+5 / 5	5+5+5+5 / 5	5+5+5+5+5 / 5

In this transformers, the secondary current is the vectorial addition of primary currents.

DIMENSIONS





MODELS	A	B	C
TRS2	100	119	135
TRS3	100	119	135
TRS4	150	169	185
TRS5	150	169	185

Dimensions in mm.

VOLTAGE TRANSFORMERS (ENCAPSULATED IN RESIN)

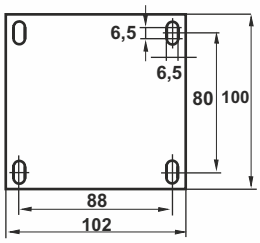
TE15P AND TE15PR

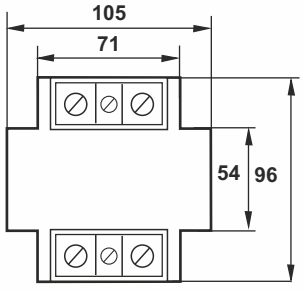
MODEL		TE 15_
Accuracy Class		1
Primary voltage	Secondary voltage	VA
440	230	25
440	110	25
440	100	25
400	230	25
400	110	25
400	100	25
230	110	25

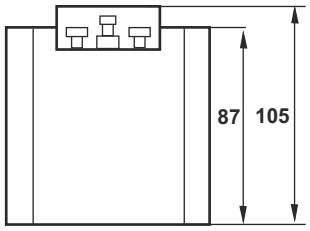
Operating range: 80 – 120 % Vpn
Load: 25 - 100 % (cos φ = 0,8)

DIMENSIONS

Fixing support







Dimensions in mm.

CURRENT TRANSFORMER ENCAPLSULATED IN RESIN (OUTDOOR)

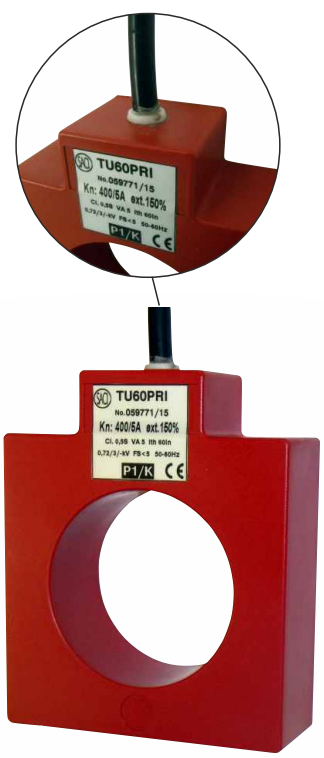
NEW

Current transformer encapsulated in resin, extended range of 150% built-in cable of:

- 6 meters (2x1,5 mm^2) or 6 meters (2x2,5 mm^2)
- 10 meters (2x2,5 mm^2)

BUS-BAR TRANSFORMERS	
MODEL	TU60PRI
Cable	Ø62
Accuracy	0,5 S
Ipn / Isn (A)	VA
400 / 5	5*

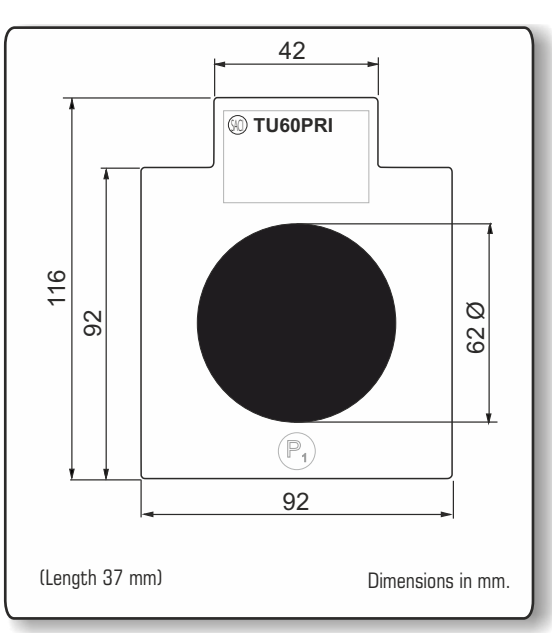
* At the beginning of the cable



SECURITY DATA	
Continuous overload	1,5 x In
Rated short-time thermal current	60 x In
Rated dynamic current	2,5 x Ith
Rated voltage (maximum)	720 V c.a
Test voltage	3 kV, 1 min.
Insulation class	A

ADDITIONAL INFORMATION	
Standard	EN 61869-2
Operating temperature	-10 ºC to +60º C
Storage temperature	-25 ºC to +75 ºC
Type of resin	Polyurethane
Flammability	UL VO.
IP	65

DIMENSIONS



Transform

SPLIT CORE CURRENT TRANSFORMER IN RESIN (OUTDOOR)

NEW

Split core current transformer encapsulated in resin, extended range of 150% built-in cable of 6 meters (2x2,5 mm^2)

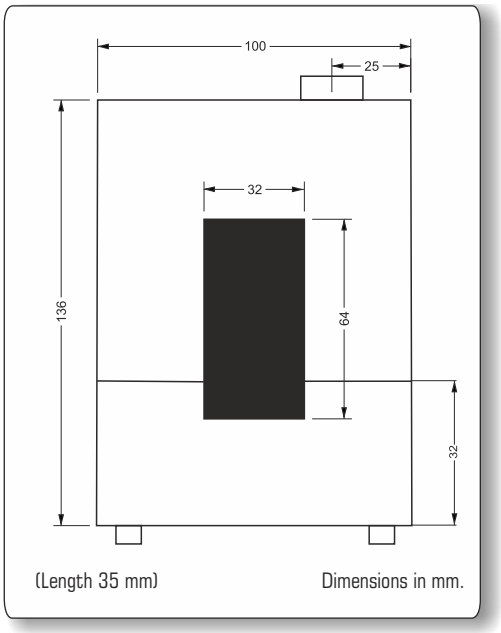
BUS-BAR TRANSFORMERS	
MODEL	TA60RI
Bar (mm)	30 x 60
Cable	Ø30
Accuracy	0,5
Ipn / Isn (A)	VA
400 / 5	3,75*

* At the beginning of the cable

SECURITY DATA	
Continuous overload	1,5 x In
Rated short-time thermal current	60 x In
Rated dynamic current	2,5 x Ith
Rated voltage (maximum)	720 V c.a
Test voltage	3 kV, 1 min.
Insulation class	A

ADDITIONAL INFORMATION	
Standard	EN 61869-2
Operating temperature	-10 ºC to +60º C
Storage temperature	-25 ºC to +75 ºC
Type of resin	Polyurethane
Flammability	UL V0.
IP	65

DIMENSIONS



(Length 35 mm) Dimensions in mm.