

CURRENT TRANSFORMERS

TE'S CROMPTON INSTRUMENTS



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Chapter I
Tape Wound Measuring
and Protection Current
Transformers

MR Series Measuring Range..... 6-7

MR Series Measuring Range

FEATURES

- Available in a wide range of transformer ratings
- Accuracy up to Class 0.5
- Measuring or protective types

APPLICATIONS

- Switchgear
- Control panels
- Overload protection
- Control devices

BENEFITS

- Long product life



A comprehensive range of measuring ring current transformers for installation where reliability, accuracy and quality are required.

CONSTRUCTION

High grade silicon iron cores are carefully selected, then insulated and protected by a polypropylene covering on which the secondary winding is toroidally wound by precision winding machines. Multi layers of polyester and PVC are then applied to provide a tough moisture resistant coating.

SPECIFICATIONS

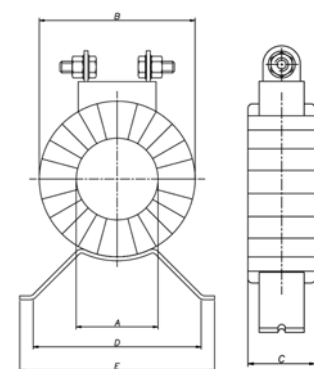
System voltage:	720V maximum
Test voltage:	3kV for 1 minute
System frequency:	50/60Hz
Overload withstand:	1.2 x rated current continuously
Short circuit thermal:	60 x rated primary current for 1 second current (Ith)*:
Dynamic current (Idyn)*:	= 2.55 x Ith
Service temperature:	-20°C to 70°C
Secondary current:	5A or 1A
Complies with:	IEC 61869-2
Saturation coefficient:	<6
Humidity:	Up to 95% RH (non condensing)
Insulation class:	BS EN60085 Class Y
Mounting hardware:	Foot mounted

Loss in copper wires between instrument and CT for 5A secondary

Wire section in mm ²	Loss in VA (for both wires)					
	1 m	2 m	4 m	6 m	8 m	10 m
1.5	0.60	1.19	2.38	3.57	4.76	5.95
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	2.23
6	0.15	0.30	0.60	1.89	1.19	1.49
10	0.09	0.18	0.36	0.54	0.71	0.89

Loss in copper wires between instrument and CT for 1A secondary

Wire section in mm ²	Loss in VA (for both wires)					
	10m	20m	40m	60m	80m	100m
1	0.36	0.71	1.43	2.14	2.86	3.57
1.5	0.24	0.48	0.95	1.43	1.90	2.38
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



* THERMAL CURRENT (ITH) & DYNAMIC CURRENT (LDYN).
LTH IS THE HIGHEST PRIMARY CURRENT (EFFECTIVE VALUE), THE LDYN IS THE HIGHEST PRIMARY CURRENT (PEAK VALUE) THAT THE CT CAN SUPPORT FOR 1 SECOND WITHOUT DAMAGE, OWING TO EXCESSIVE OVERLOADS WITH SECONDARY SHORT CIRCUITS.

MR Series Measuring Range

MR transformers are used to accurately measure high alternating primary currents, converting the primary current into a proportional secondary current as required for measurement and instrumentation. They are available in 5 amp or 1 amp secondary versions.

Part number	Ratio range	Class 3	Class 1	Class 0.5	A	B	C	D	Approx. weight
MR-28-40/5A	40/5	1.5	-	-	28	70	40	77.5	0.5
MR-28-50/5A	50/5	2	-	-	28	70	40	77.5	0.5
MR-28-60/5A	60/5	2.5	-	-	28	70	40	77.5	0.5
MR-28-40/1A	40/1	1.5	-	-	22	60	50	70	0.5
MR-28-50/1A	50/1	2	-	-	22	60	40	70	0.5
MR-28-60/1A	60/1	2.5	-	-	22	60	40	70	0.5
MR-42-80/5A	80/5	1.5	-	-	42	80	30	86	0.5
MR-42-100/5A	100/5	3.75	1.25	-	42	80	30	86	0.5
MR-42-150/5A	150/5	5	2.5	1	42	80	30	86	0.5
MR-42-200/5A	200/5	7.5	5	2.5	42	80	30	86	0.5
MR-42-250/5A	250/5	10	5	2.5	42	80	30	86	0.5
MR-42-80/1A	80/1	1.5	-	-	40	72	26	70	0.5
MR-42-100/1A	100/1	5	1.5	-	40	72	45	70	0.5
MR-42-150/1A	150/1	5	3	-	40	72	40	70	0.5
MR-42-200/1A	200/1	7.5	5	3	40	72	40	70	0.5
MR-42-250/1A	250/1	10	7.5	2.5	40	72	40	70	0.5
MR-45-300/5A	300/5	10	7.5	3.75	45	80	30	86	0.5
MR-45-400/5A	400/5	15	7.5	5	45	80	30	86	0.5
MR-45-300/1A	300/1	10	10	5	45	83	32	100	0.5
MR-45-400/1A	400/1	15	10	5	45	83	32	100	0.5
MR-60-400/5A	400/5	15	7.5	5	60	100	30	86	0.5
MR-60-500/5A	500/5	15	10	5	60	100	30	86	0.5
MR-60-600/5A	600/5	20	10	7.5	60	100	30	86	0.5
MR-60-400/1A	400/1	15	7.5	5	58	100	30	100	0.5
MR-60-500/1A	500/1	20	15	5	58	100	32	100	0.5
MR-60-600/1A	600/1	20	15	10	58	100	32	100	0.
MR-85-800/5A	800/5	20	10	7.5	85	124	30	86	0.5
MR-85-1000/5A	1000/5	30	15	10	85	124	30	86	1
MR-85-1200/5A	1200/5	30	15	10	85	124	30	86	1
MR-85-1500/5A	1500/5	30	15	10	85	124	30	86	1
MR-85-1600/5A	1600/5	30	15	10	85	124	30	86	1
MR-85-800/1A	800/1	20	15	10	84	122	30	100	0.5
MR-85-1000/1A	1000/1	25	20	15	94	135	30	100	1
MR-85-1200/1A	1200/1	25	20	15	94	135	30	100	1
MR-85-1500/1A	1500/1	25	20	15	94	135	30	100	1
MR-85-1600/1A	1600/1	25	20	15	94	135	30	100	1
MR-125-2000/5A	2000/5	30	20	15	125	160	30	86	1
MR-125-2500/5A	2500/5	30	20	15	125	160	30	861	-
MR-125-3000/5A	3000/5	30	20	15	125	160	30	86	1
MR-125-4000/5A	4000/5	30	20	15	125	160	30	86	1
MR-125-2000/1A	2000/1	25	20	15	132	175	30	150	1.5
MR-125-2500/1A	2500/1	25	20	15	132	175	30	150	1.5
MR-125-3000/1A	3000/1	25	20	15	125	180	32	150	1.5
MR-125-4000/1A	4000/1	25	20	15	140	215	45	150	4.5





Chapter 2

Split Core Current Transformers

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Split Core Current Transformers

FEATURES

- High quality comprehensive measurements
- Available in a wide range of transformer ratings
- Accuracy up to Class 0.5
- Foot or busbar mounted

APPLICATIONS

- Switchgear
- Distribution systems
- Generator sets
- Control panels

BENEFITS

- Faster installation
- Cost effective
- Long product life



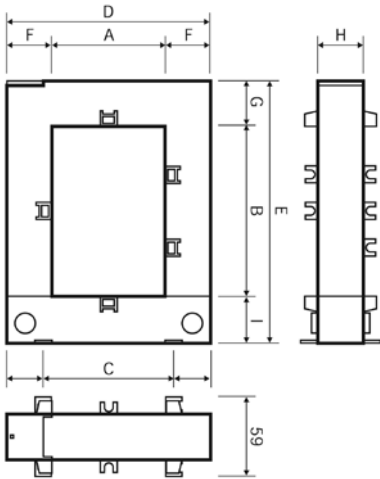
A range of split core current transformers that offers a cost effective and efficient method by which the current can be measured without the need to break the conductor, thereby reducing installation and commissioning time.

SPECIFICATIONS

System voltage:	720V (0.72kV) maximum
Test voltage:	3kV for 1 minute
System frequency:	50/60Hz
Insulation class:	E
Overload withstand:	1.2 times rated current continuously
Short circuit thermal:	100 x rated primary for 1 second
Operating temperature:	-20°C to +70°C
Relative humidity:	0-90% (non condensing)
Compliant with:	IEC 61869-2, BS7626
Accuracy:	Class 3, 1 & 0.5
Mounting hardware:	Plug-in metal feet for wall or base mounting or moulded busbar mounting
Rated dynamic current:	= 2.55 x I _{ht}
Enclosure:	Flame retardant grade classified UL 94V-O

Model	Case 1	Case 2	Case 3	Case 4	Case 5
A	20	50	80	80	80
B	30	80	80	120	160
C	51	78	108	108	120
D	89	114	144	144	184
E	111	145	145	185	245
F	34	32	32	32	52
G	47	32	32	32	52
H	40	32	32	32	52
I	32	33	33	33	38
Weight (kg)	0.75	0.90	1.05	1.25	4.30

DIMENSIONS



Split Core Current Transformers

PRODUCT CODES

	Part number	Ratio	Burden VA against class index			Aperture (mm)
			0.5	1	3	
Case 1	SC1-100/5A	100/5A	-	-	1.5	20 x 30
	SC1-150/5A	150/5A	-	-	2	20 x 30
	SC1-200/5A	200/5A	-	1.5	2.5	20 x 30
	SC1-250/5A	250/5A	-	2	4	20 x 30
	SC1-300/5A	300/5A	1.5	4	6	20 x 30
	SC1-400/5A	400/5A	2.5	6	10	20 x 30
Case 2	SC2-250/5A	250/5A	1	2	4	50 x 80
	SC2-300/5A	300/5A	1.5	3	6	50 x 80
	SC2-400/5A	400/5A	1.5	3	10	50 x 80
	SC2-500/5A	500/5A	2.5	5	15	50 x 80
	SC2-600/5A	600/5A	2.5	5	15	50 x 80
	SC2-750/5A	750/5A	3	6	20	50 x 80
	SC2-800/5A	800/5A	3	7.5	20	50 x 80
	SC2-1000/5A	1000/5A	5	10	20	50 x 80
Case 3	SC3-250/5A	250/5A	1	2	4	80 x 80
	SC3-300/5A	300/5A	1.5	3	6	80 x 80
	SC3-400/5A	400/5A	1.5	3	10	80 x 80
	SC3-500/5A	500/5A	2.5	5	15	80 x 80
	SC3-600/5A	600/5A	2.5	5	15	80 x 80
	SC3-750/5A	750/5A	3	6	20	80 x 80
	SC3-800/5A	800/5A	3	7.5	20	80 x 80
	SC3-1000/5A	1000/5A	5	10	20	80 x 80
Case 4	SC4-500/5A	500/5A	-	4	12.5	80 x 120
	SC4-600/5A	600/5A	-	5	15	80 x 120
	SC4-750/5A	750/5A	2.5	6	17.5	80 x 120
	SC4-800/5A	800/5A	3	7.5	20	80 x 120
	SC4-1000/5A	1000/5A	5	10	20	80 x 120
	SC4-1200/5A	1200/5A	6	12.5	25	80 x 120
	SC4-1250/5A	1250/5A	7.5	15	30	80 x 120
	SC4-1500/5A	1500/5A	8	17	30	80 x 120
Case 5	SC4-1600/5A	1600/5A	8	17	30	80 x 120
	SC5-1000/5A	1000/5A	10	15	20	80 x 160
	SC5-1250/5A	1250/5A	10	15	20	80 x 160
	SC5-1500/5A	1500/5A	15	20	25	80 x 160
	SC5-2000/5A	2000/5A	15	20	25	80 x 160
	SC5-2500/5A	2500/5A	15	20	25	80 x 160
	SC5-3000/5A	3000/5A	20	25	30	80 x 160
	SC5-4000/5A	4000/5A	20	25	30	80 x 160
	SC5-5000/5A	5000/5A	20	25	30	80 x 160
	SC5-6000/5A	6000/5A	20	25	30	80 x 160

Miniature Split Core Current Transformers



FEATURES

- Cost effective moulded case
- Ratio's ranging from 60/1 to 500/5
- Fast cable clamp connection
- Multiple fixing options
- Safety plug in shorting link

BENEFITS

- Faster installation
- Compact size profile applications

A range of miniature split core current transformers that offers a cost effective and efficient method by which the current can be measured without the need to break the conductor, each current transformer is supplied with colour coded leads of up to 3 meters for connection to the monitoring device. The MSC range of current transformers offers primary currents between 60-500A with 1 or 5A secondaries with class 1 accuracy performance. (Class 3 for 60-80A range).

ACCESSORIES



SHORTING LINK FOR SAFE INSTALLATION, (CT WILL NOT OPERATE UNTIL REMOVED).

Fixing kit supplied



SPECIFICATIONS

System voltage:	720V maximum
Test voltage:	3kV for 1 minute
System frequency:	50Hz or 60Hz
Primary ratings:	60A to 500A
Short circuit thermal current:	60 x rated primary current (Ith): for 1 sec
Overload withstand:	1.2 x rated current continuously
Rated dynamic current:	= 2.55 x Iht
Secondary leads:	1A, (length 3m), 5A (length 1m) 2.5 mm wire
Enclosure:	Flame retardant grade classified UL 94V-2
Aperture holes centres:	18 mm up to 250A, 28 mm from 300A - 500A
Operating temperature:	-20°C to +55°C
Accuracy class:	1, 3
Compliant with:	IEC/EN 61869-2
Storage temperature:	-20°C to 70°C

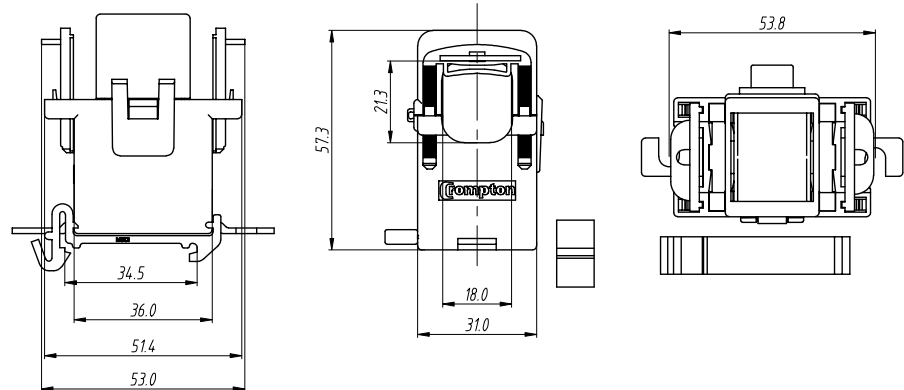
PRODUCT CODES

Part number	Ratio	Class	Burden VA	Aperture	Lead length	Case	Wire colour	Approx. weight
MSC1-60/1	60/1	3	0.1	18 mm	3 m	Size 1	White S1 and Black S2	57.3, 31, 53, 18
MSC1-75/1	75/1	3	0.1	18 mm	3 m	Size 1	White S1 and Black S2	57.3, 31, 53, 18
MSC1-80/1	80/1	3	0.15	18 mm	3 m	Size 1	White S1 and Black S2	57.3, 31, 53, 18
MSC1-100/1	100/1	1	0.2	18 mm	3 m	Size 1	White S1 and Black S2	57.3, 31, 53, 18
MSC2-100/1	100/1	1	1	18 mm	3 m	Size 2	White S1 and Black S2	72.7, 44.5, 61.5, 18
MSC2-100/5	100/5	1	1	18 mm	1 m	Size 2	White S1 and Black S2	72.7, 44.5, 61.5, 18
MSC2-150/1	150/1	1	1	18 mm	3 m	Size 2	White S1 and Black S2	72.7, 44.5, 61.5, 18
MSC2-150/5	150/5	1	1	18 mm	1 m	Size 2	White S1 and Black S2	72.7, 44.5, 61.5, 18
MSC2-200/1	200/1	1	1	18 mm	3 m	Size 2	White S1 and Black S2	72.7, 44.5, 61.5, 18
MSC2-200/5	200/5	1	1	18 mm	1 m	Size 2	White S1 and Black S2	72.7, 44.5, 61.5, 18
MSC2-250/1	250/1	1	1	18 mm	3 m	Size 2	White S1 and Black S2	72.7, 44.5, 61.5, 18
MSC2-250/5	250/5	1	1	18 mm	1 m	Size 2	White S1 and Black S2	72.7, 44.5, 61.5, 18
MSC3-300/1	300/1	1	1.5	28 mm	3 m	Size 3	White S1 and Black S2	71.7, 44.5, 62.2, 28
MSC3-300/5	300/5	1	1.5	28 mm	1 m	Size 3	White S1 and Black S2	71.7, 44.5, 62.2, 28
MSC3-400/1	400/1	1	2.5	28 mm	3 m	Size 3	White S1 and Black S2	71.7, 44.5, 62.2, 28
MSC3-400/5	400/5	1	2.5	28 mm	1 m	Size 3	White S1 and Black S2	71.7, 44.5, 62.2, 28
MSC3-500/1	500/1	1	2.5	28 mm	3 m	Size 3	White S1 and Black S2	71.7, 44.5, 62.2, 28
MSC3-500/5	500/5	1	2.5	28 mm	1 m	Size 3	White S1 and Black S2	71.7, 44.5, 62.2, 28

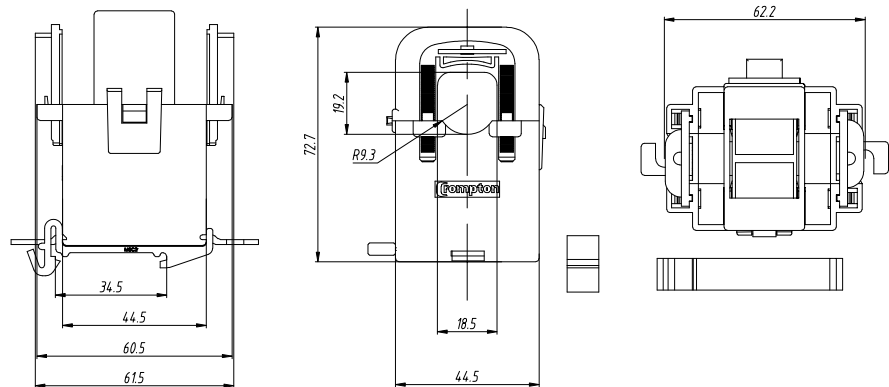
Miniature Split Core Current Transformers



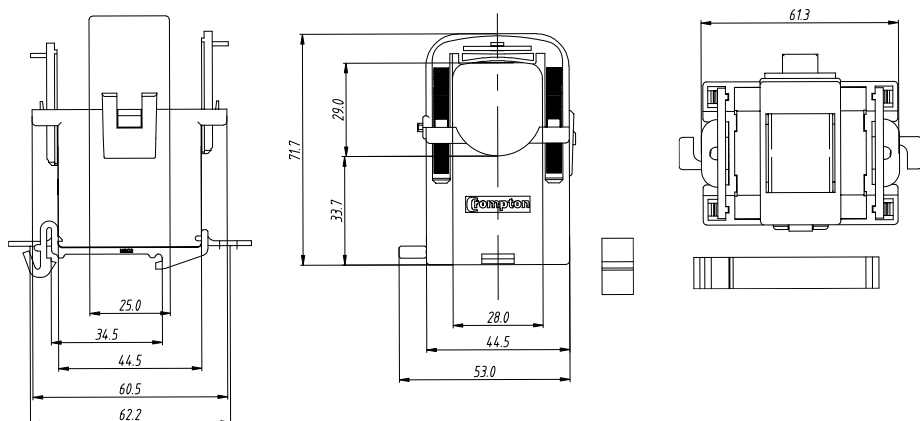
MSC1



MSC2



MSC3



EBONY EXCEL SC MOULDED CASE CURRENT TRANSFORMERS



EBONY EXCEL SC RANGE

TE's Crompton Instruments Ebony Excel SC range of Current Transformers offer wide system current ratings, apertures, busbar and case sizes to suit every application. The split core provides an efficient method by which the current can be measured without the need to break the conductor.

Manufactured to meet IEC61869-2, the range benefits include ratio rating from 100/5 to 5000/5, with performance class accuracies of class 3, 1 & 0.5. The range features hinged wire sealable terminal covers for safety and multiple mounting options. Additional features include quick push button for core opening and key lock safety feature to secure the CT core preventing accidental opening after installation.

CONSTRUCTION

The split core and secondary windings are encapsulated with UL94V-0 approved polycarbonate, in a moulded case providing excellent mechanical strength and electrical insulation.

INSTALLATION OPTIONS

- Plug-in metal feet for wall or base mounting
- Moulded busbar mounting
- Primary copper busbar mounting
- Multi busbar mounting for two busbars
- Plastic DIN-rail adaptor for DIN-rail mounting (available as an option)

SPECIFICATIONS

Applicable Standards	IEC-61869-1&2, BS 3938, IS 2705-1,2&3.
Case	Unfilled polycarbonate, flame retardant grades classified UL 94V-0
Connection	Two connection on each side. M4 screws with self lifting clamp strap assembly
Insulation Class	E (120°C Maximum)
System Voltage	720V maximum
Test Voltage	4KV 50Hz for 1 min
Operating Frequency	50Hz or 60Hz
Rated secondary output	5A standard (1A on request)
Rated burden	1, 1.25, 1.5, 2.5, 3.75, 5, 7.5, 10, 12.5, 15, 20, 30, 45, 60, 100VA
Class of accuracy	0.5 for accurate measuring, kWh 1 for general measurement 3 for indicating instruments
Ambient temperature	-25°C to +40°C
Storage temperature	-50°C...+80°C
Thermal short circuit current (I _{th})	60 x I _n
Dynamic short circuit current (I _{dyn})	2.5 x I _{th}
Instrument security factor	10, 15, 30
Rated continuous thermal current	1.2 x I _n
Degree of protection	IP20

FEATURES

- CT ratios from 100A to 5000A with 5A and 1A secondary's
- Comprehensive range of class accuracy's
- Flame retardant UL94V-0 polycarbonate moulded case
- Wide range of system current ratings
- Wall or busbar and mounting
- Hinged terminal covers
- Laser etched rating plates
- Quick release button
- Key lock to secure core

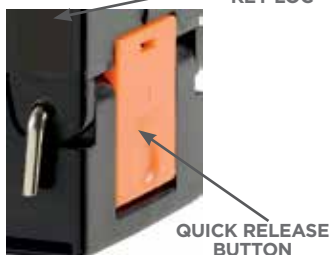
BENEFITS

- Wide range of apertures and case sizes
- Reduction of high currents for ease of metering
- Long product life

APPROVALS

- IEC 61869-2
- BS3938
- UL Recognised File No. E257877

CORE
KEY LOC



ACCURACY CLASSES

The **Ebony Excel SC** range includes a comprehensive range of class accuracies between 3, 1, & 0.5.



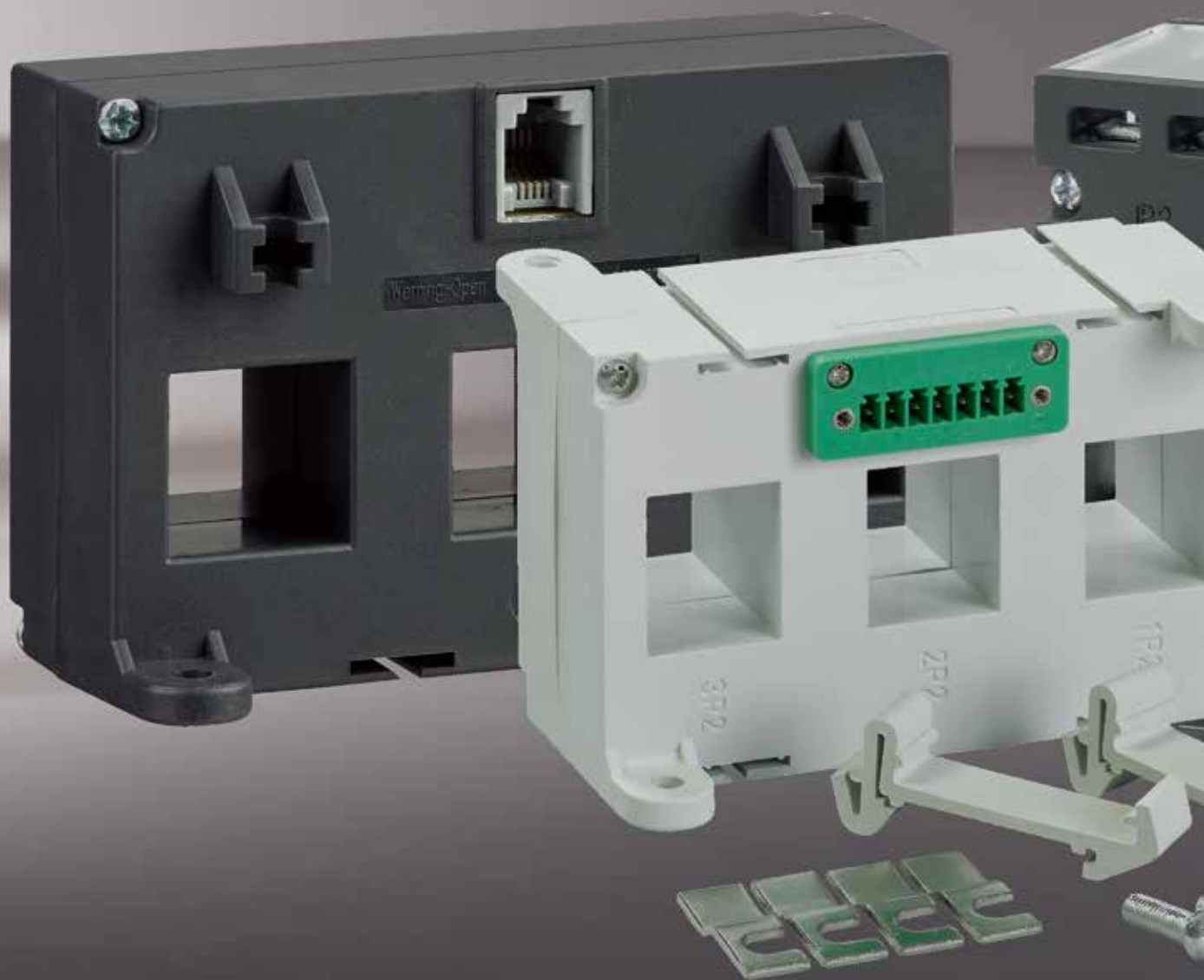
EBONY EXCEL SC MOULDED CASE CURRENT TRANSFORMERS




Case size	Aperture
Case 1	23 x 33
Case 2	43 x 55
Case 3	55 x 85
Case 4	85 x 125
Case 5	85 x 172

PRODUCT CODES

	Part number	Primary current	Accuracy		
			Class 3	Class 1	Class 0.5
Case 1	XLSC1-100/5A	100A	3.5VA	1.5VA	-
	XLSC1-150/5A	150A	3.75VA	1.75VA	-
	XLSC1-200/5A	200A	5VA	2.5VA	-
	XLSC1-250/5A	250A	6.25VA	3.75VA	-
	XLSC1-300/5A	300A	6.25VA	5VA	2.5VA
	XLSC1-400/5A	400A	10VA	6.25VA	3.75VA
Case 2	XLSC2-100/5A	100A	2.5VA	1.5VA	-
	XLSC2-125/5A	125A	2.5VA	1.5VA	-
	XLSC2-150/5A	150A	3.75VA	1.75VA	-
	XLSC2-200/5A	200A	5VA	3.75VA	1.5VA
	XLSC2-250/5A	250A	7.5VA	5VA	2.5VA
	XLSC2-300/5A	300A	7.5VA	5VA	2.5VA
	XLSC2-400/5A	400A	10VA	7.5VA	5VA
	XLSC2-500/5A	500A	10VA	7.5VA	5VA
	XLSC2-600/5A	600A	12.5VA	10VA	6.25VA
Case 3	XLSC2-750/5A	750A	15VA	12.5VA	7.5VA
	XLSC2-800/5A	800A	15VA	12.5VA	7.5VA
	XLSC3-250/5A	250A	3.75VA	2.5VA	1VA
	XLSC3-300/5A	300A	5VA	3.75VA	2.5VA
	XLSC3-400/5A	400A	5VA	3.75VA	2.5VA
	XLSC3-500/5A	500A	7.5VA	5VA	3.75VA
	XLSC3-600/5A	600A	10VA	7.5VA	5VA
	XLSC3-750/5A	750A	12.5VA	10VA	7.5VA
	XLSC3-800/5A	800A	12.5VA	10VA	7.5VA
	XLSC3-1000/5A	1000A	20VA	15VA	10VA
	XLSC3-1200/5A	1200A	20VA	15VA	10VA
	XLSC3-1250/5A	1250A	10VA	15VA	10VA
Case 4	XLSC3-1500/5A	1500A	20VA	15VA	10VA
	XLSC3-1600/5A	1600A	20VA	15VA	10VA
	XLSC3-2000/5A	2000A	20VA	15VA	10VA
	XLSC4-250/5A	250A	3.75VA	2.5VA	1VA
	XLSC4-300/5A	300A	5VA	3.75VA	1.5VA
	XLSC4-400/5A	400A	5VA	3.75VA	2.5VA
	XLSC4-500/5A	500A	7.5VA	5VA	3.75VA
	XLSC4-600/5A	600A	10VA	7.5VA	5VA
	XLSC4-750/5A	750A	12.5VA	10VA	7.5VA
	XLSC4-800/5A	800A	12.5VA	10VA	7.5VA
	XLSC4-1000/5A	1000A	20VA	15VA	10VA
	XLSC4-1200/5A	1200A	45VA	30VA	15VA
	XLSC4-1250/5A	1250A	45VA	30VA	15VA
	XLSC4-1500/5A	1500A	60VA	45VA	20VA
	XLSC4-1600/5A	1600A	60VA	45VA	20VA
	XLSC4-2000/5A	2000A	60VA	45VA	20VA
Case 5	XLSC4-2500/5A	2500A	60VA	45VA	25VA
	XLSC4-3000/5A	3000A	60VA	45VA	30VA
	XLSC5-500/5A	500A	7.5VA	5VA	1.25VA
	XLSC5-600/5A	600A	7.5VA	5VA	1.25VA
	XLSC5-750/5A	750A	12.5VA	10VA	5VA
	XLSC5-800/5A	800A	12.5VA	10VA	7.5VA
	XLSC5-1000/5A	1000A	12.5VA	10VA	7.5VA
	XLSC5-1200/5A	1200A	25VA	20VA	10VA
	XLSC5-1250/5A	1250A	25VA	20VA	15VA
	XLSC5-1500/5A	1500A	45VA	30VA	20VA
	XLSC5-1600/5A	1600A	45VA	30VA	20VA
	XLSC5-2000/5A	2000A	45VA	30VA	25VA
	XLSC5-2500/5A	2500A	45VA	30VA	25VA
	XLSC5-3000/5A	3000A	60VA	45VA	30VA
	XLSC5-4000/5A	4000A	60VA	45VA	30VA
	XLSC5-5000/5A	5000A	60VA	45VA	30VA





Chapter 3

3-in-1 Current Transformers

3-in-1 Current Transformers.....	18
Q2C 3-in-1 Current Transformers.....	19
Dual Load 3-in-1 Current Transformers.....	20
Integra DMS - RJ12 Wiring Loom Solution.....	21

3-in-1 Current Transformers

FEATURES

- Cost effective three-phase moulded case
- Ratio's ranging from 60/5 to 630/5
- Integrated wire sealable terminal cover
- Busbar, DIN-rail and metal feet mounting hardware supplied
- Combined M4 posi/slot screw

APPLICATIONS

- Switchgear
- Distribution systems
- Generator sets
- Control panels

BENEFITS

- Isolated output for safety
- Faster installation
- Compact size
- Ex-stock delivery



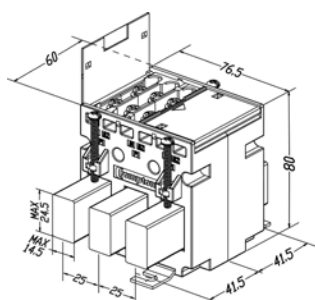
A range of 3-in-1 current transformers combine three traditional current transformers in one moulded case. 3-in-1 current transformers can be directly installed next to a three-phase moulded case circuit breaker, thus saving installation time where fitting three standard individual current transformers would be required. The M3N1 range of current transformers offers primary currents between 60-630A with 5A secondaries with up to Class 0.5 accuracy performance.

SPECIFICATIONS

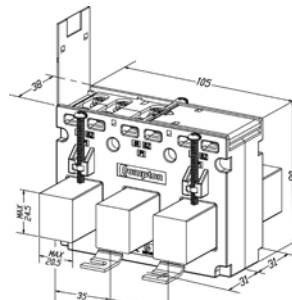
System voltage:	720V maximum
Test voltage:	3kV for 1 minute
System frequency:	50Hz or 60Hz
Primary ratings:	60A to 630A
Short circuit thermal current:	60 x rated primary current (Ith): for 1 sec
Overload withstand:	1.2 x rated current continuously
Rated dynamic current:	= 2.55 x Ith
Secondary terminals:	M4 screw terminals
Enclosure:	Flame retardant grade classified UL 94V-O
Aperture holes centres:	25, 35, 45 mm
Operating temperature:	-20°C to +85°C
Accuracy:	Class 0.5, 1, 3
Mounting hardware:	Plug-in metal feet for wall or base mounting Busbar and DIN-rail mounting
Compliant with:	IEC 61869-2

Part number	Ratio	Burden VA against class index			Aperture (mm)
		Class 0.5	Class 1	Class 3	
M3N1-25-60/5	60/5	-	1	2	3@14.5 x 24.5 mm
M3N1-25-100/5	100/5	-	1.5	2.5	3@14.5 x 24.5 mm
M3N1-25-125/5	125/5	-	1.5	2.5	3@14.5 x 24.5 mm
M3N1-25-150/5	150/5	1.5	1.5	2.5	3@14.5 x 24.5 mm
M3N1-25-160/5	160/5	1.5	1.5	2.5	3@14.5 x 24.5 mm
M3N1-35-100/5	100/5	-	1.5	2	3@20.5 x 24.5 mm
M3N1-35-125/5	125/5	-	1.5	2.5	3@20.5 x 24.5 mm
M3N1-35-150/5	150/5	-	1.5	2.5	3@20.5 x 24.5 mm
M3N1-35-160/5	160/5	1.5	1.5	2.5	3@20.5 x 24.5 mm
M3N1-35-200/5	200/5	1.5	1.5	2.5	3@20.5 x 24.5 mm
M3N1-35-250/5	250/5	1.5	1.5	2.5	3@20.5 x 24.5 mm
M3N1-45-250/5	250/5	1.5	1.5	2.5	3@30.5 x 30.5 mm
M3N1-45-300/5	300/5	2.5	2.5	3.75	3@30.5 x 30.5 mm
M3N1-45-400/5	400/5	2.5	2.5	3.75	3@30.5 x 30.5 mm
M3N1-45-500/5	500/5	2.5	2.5	3.75	3@30.5 x 30.5 mm
M3N1-45-600/5	600/5	2.5	2.5	3.75	3@30.5 x 30.5 mm
M3N1-45-630/5	630/5	2.5	2.5	3.75	3@30.5 x 30.5 mm

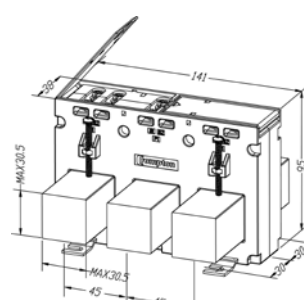
M3N1-25



M3N1-35



M3N1-45



Q2C 3-in-1 Current Transformers

FEATURES

- Reversible mounting LHS and RHS
- Internal grounding/earthing facility
- Supplied with connector

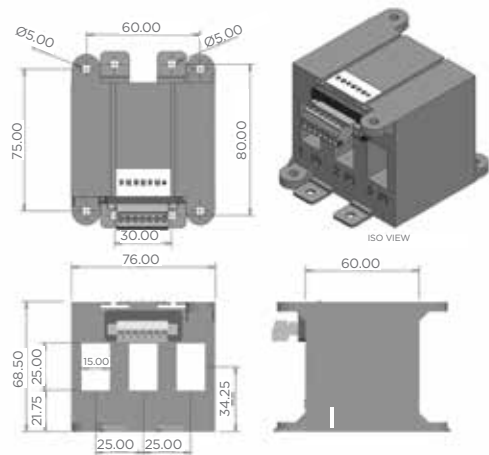
A range of 3-in-1 current transformers for use with or without the Q2C wiring solution. The 3-in-1 current transformers combine three traditional current transformers in one moulded case with a pluggable locking connector for simple and easy installation.

SPECIFICATIONS

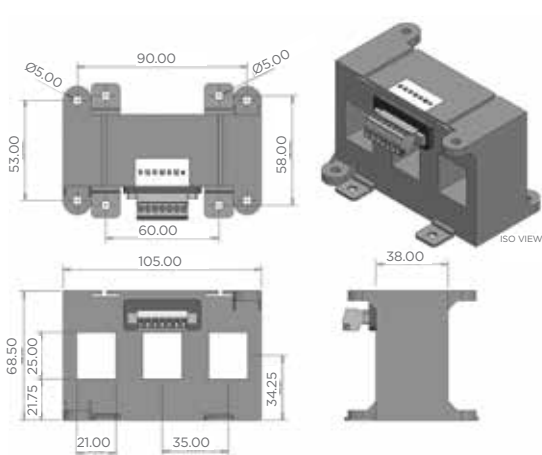
Part number	Ratio	Burden VA against class index			Aperture (mm)
		Class 0.5	Class 1	Class 3	
QC3N1-25-60/5	60/5	-	1	2	3 @ 15x25 mm
QC3N1-25-100/5	100/5	-	1.5	2.5	3 @ 15x25 mm
QC3N1-25-160/5	160/5	1.5	1.5	2.5	3 @ 15x25 mm
QC3N1-35-100/5	100/5	-	1.5	2	3 @ 21x25 mm
QC3N1-35-125/5	125/5	-	1.5	2.5	3 @ 21x25 mm
QC3N1-35-160/5	160/5	1.5	1.5	2.5	3 @ 21x25 mm
QC3N1-35-250/5	250/5	1.5	1.5	2.5	3 @ 21x25 mm
QC3N1-45-250/5	250/5	-	2.5VA	-	3 @ 32x27 mm
QC3N1-45-400/5	400/5	-	2.5VA	-	3 @ 32x27 mm
QC3N1-45-600/5	600/5	2.5VA	5VA	-	3 @ 32x27 mm
QC3N1-70-400/5	400/5	-	2.5VA	-	3 @ 52x40 mm
QC3N1-70-600/5	600/5	2.5VA	5VA	-	3 @ 52x40 mm
QC3N1-70-800/5	800/5	2.5VA	5VA	-	3 @ 52x40 mm

DIMENSIONS

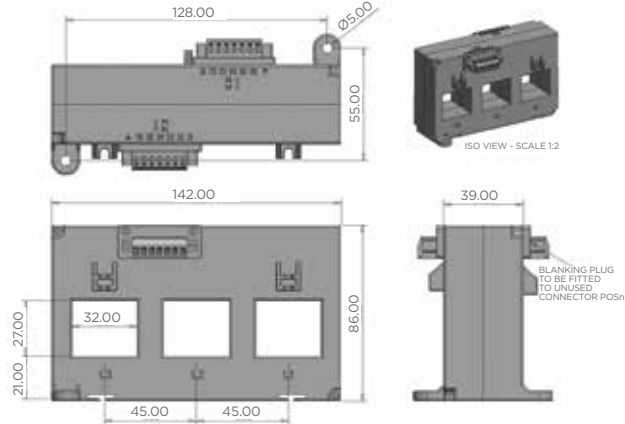
QC3N1-25



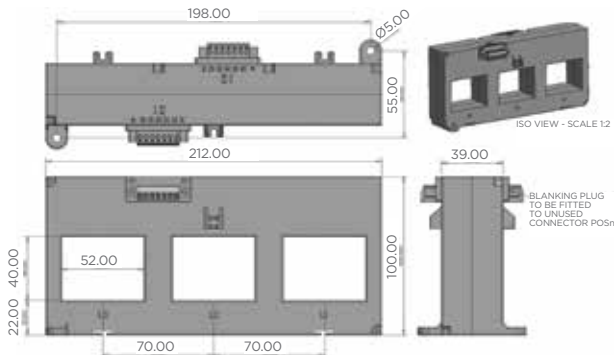
QC3N1-35



QC3N1-45



QC3N1-70



RJ12 3-in-1 Current Transformer

FEATURES

- Busbar DIN-rail and metal feet (mounting hardware supplied)
- RJ12 socket for fast connection eliminate wiring errors
- Cable included (length 1.5 m)
- Low 40A ratio for more energy efficient loads
- Aperture hole centres 25 mm
- Optional sealed terminal cover



STANDARDS

- IEC 61869-2



The 3-in-1 current transformer range are for use with the Integra digital metering system

SL1-01/DL1-01/TL1-01 and INT 1221, it combines three traditional current transformers in one moulding case with a RJ12 connection for simple and easy error free installation.

SPECIFICATIONS

System voltage:	720V maximum
Test voltage:	3kV for 1 minute
System frequency:	50Hz or 60Hz
Primary ratings:	100mA AC rms. per CT
Overload withstand:	1.2 x rated current continuously
Enclosure:	Flame retardant grade classified UL94V-O
Aperture hole centres:	25mm, 35mm, 45mm, 70mm
Operating temperature:	-20°C to +85°C
Compliant with accuracy:	IEC 61869-2 Class 0.5, Class 1

Product Codes	Primary Current	VA at Class 1	VA at Class 0.5	A (Width) mm	B (Height) mm	C (Depth) mm	D (Hole Centres) mm	Aperture mm
DL3N1-25-60/0.1	60A			76	78	30	25	3 @ 25 x 15
DL3N1-25-125/0.1	125A			76	78	30	25	3 @ 25 x 15
DL3N1-25-160/0.1	160A			76	78	30	25	3 @ 25 x 15

DL3N1-35-60/0.1	60A	0.25	-	107	70	36	35	3 @ 22 x 22
DL3N1-35-125/0.1	125A	0.5	0.25	107	70	36	35	3 @ 22 x 22
DL3N1-35-160/0.1	160A	0.35	0.25	107	70	36	35	3 @ 22 x 22
DL3N1-35-250/0.1	250A	0.5	0.25	107	70	36	35	3 @ 22 x 22

DL3N1-45-250/0.1	250A	0.25	-	142	86	40	45	3 @ 27 x 32
DL3N1-45-400/0.1	400A	-	0.25	142	86	40	45	3 @ 27 x 32
DL3N1-45-600/0.1	600A	-	0.25	142	86	40	45	3 @ 27 x 32

DL3N1-70-400/0.1	400A	-	0.25	212	100	40	70	3 @ 40 x 52
DL3N1-70-600/0.1	600A	-	0.25	212	100	40	70	3 @ 40 x 52
DL3N1-70-800/0.1	800A	-	0.25	212	100	40	70	3 @ 40 x 52

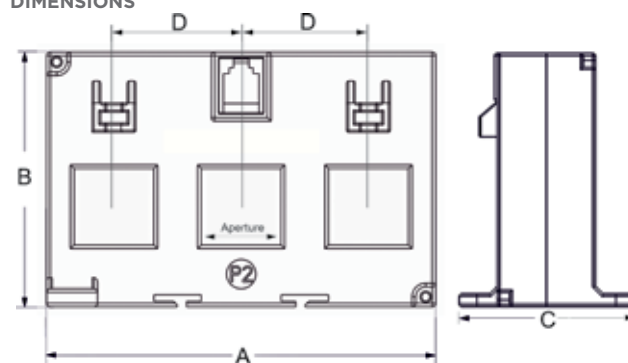
BENEFITS

- RJ12 connection for simple and easy error free installation



ALL CURRENT TRANSFORMERS ARE SUPPLIED WITH A 1.5M CONNECTING CABLE, WITH RJ12 CONNECTOR TERMINATION AT EACH END.

DIMENSIONS



KEY FEATURE

- New CT label design shows correct metering setting for phasing and current flow

CT LABEL



Integra DMS - RJ12 Wiring Loom Solution



INTEGRA-1221
RJ12 Connector



FEATURES

- DIN 96 enclosure
- Backlit LCD screen
- Voltage IN-OUT connections
- RJ12 connection 100mA
- Programmable VT
- Modbus™ RTU
- Individual harmonics to 63rd
- Non-volatile memory 1MB

BENEFITS

- Reduced installation time
- Eliminates potential cost of errors in electrical connections or programming
- Tidy solution for cable management



Description	Part number
Integra 1221 multifunction panel meter - Self powered. Backlit LCD HD Display Input 100-277 V AC L-N / 173-480V AC L-L - 2 Pulsed outputs. RJ12 CT input 100mA. Modbus RS485 output. RJ12 CT connectivity.	INT-1221-S-010

Choose your requirements

Select:

Step 1 choose

- Self Powered or Auxiliary Meter

Step 2 choose

- RJ12 Current Transformer

Step 3 choose

- Voltage wiring loom

Step 4 choose

- Optional modules if required
e.g BACnet, Ethernet,
Data Logger, IP64 Sealing Kit



Voltage Meter to Open Loom	Length	Part Number
The meter to open loom connects the voltage supply from the fused connections to the meter using high quality LSZH cable fitted with suitable plugs and socket for safe and easy voltage connections. Compatible with all versions of INT 12XX meters.	600 mm	Q2C-VFO-0600-01
	1000 mm	Q2C-VFO-1000-01
	1200 mm	Q2C-VFO-1200-01
	1500 mm	Q2C-VFO-1500-01
	Other lengths available	



Voltage Meter to Meter Loom	Length	Part Number
The meter to meter loom connects the voltage for upto 32 meters using high quality LSZH cable fitted with suitable plugs and socket for safe and easy voltage connections. Compatible with all versions of INT-12XX meters.	600 mm	Q2C-VMM-0600-01
	1000 mm	Q2C-VMM-1000-01
	1200 mm	Q2C-VMM-1200-01
	1500 mm	Q2C-VMM-1500-01
	2000 mm	Q2C-VMM-2000-01
	Other lengths available	



Chapter 4

Moulded Case Current Transformers

Ebony Excel Current Transformers.....	24-45
Ebony Excel Plus Current Transformers.	46-63
Ebony Excel Protection Current Transformers.....	64-75

Ebony Excel Current Transformers



FEATURES

- CT ratios from 1A to 6000A with 5A and 1A secondary's
- Comprehensive range of class accuracy's
- Cost effective moulded case
- Wide range of system current ratings, busbar sizes, case dimensions and apertures
- Wall, cable, busbar and DIN rail mounting
- Hinged terminal covers



BENEFITS

- Wide range of apertures and case sizes
- Reduction of high currents for ease of metering
- Long product life

APPROVALS

- IEC 61869-2
- BS3938
- UL Recognised File No. E104604



Crompton Instruments **Ebony Excel** and **Ebony Excel Plus** range of Current Transformers offer wide system current ratings, apertures, busbar and case sizes to suit every application. Manufactured to meet IEC61869-2, the range benefits include ratio rating from 1/5 to 6000/5, a comprehensive range of class accuracies, hinged wire sealable terminal covers for safety and multiple mounting options.

CONSTRUCTION

The toroidal core and secondary winding is encapsulated with UL94V-0 approved polycarbonate, in moulded case providing excellent mechanical strength and electrical insulation.

INSTALLATION OPTIONS

- Plug-in metal feet for wall or base mounting
- Moulded busbar mounting
- Primary copper busbar mounting
- Multi busbar mounting for two busbars
- Plastic DIN-rail adaptor for DIN-rail mounting (available as an option)

SPECIFICATION

Applicable Standards	IEC 61869-2, BS3839
Applicable Standards	10% glass filled polycarbonate Flame retardant grades classified UL94V-0
Connection	Two connections each side. M4 screws with self lifting clamp assembly
Insulation Class	E (120°C Maximum)
System Voltage	720V maximum
Test Voltage	4KV 50Hz for 1 min (Except for XL2 model where test voltage is 3KV 50Hz for 1 min)
Operating Frequency	50Hz or 60Hz
Rated secondary output	5A standard (1A on request)
Rated burden	1, 1.25, 1.5, 2.5, 3.75, 5, 7.5, 10, 12.5, 15, 20, 30, 45, 60, 100VA
Class of accuracy	0.5, 1, 3 Optional class 0.2, 0.2S & 0.5S
Ambient temperature	-20°C...+45°C
Storage temperature	-50°C...+80°C
Thermal short circuit current (I _{th})	60 x I _n
Dynamic short circuit current (I _{dyn})	2.5 x I _{th}
Instrument security factor	5, 10, 15
Rated continuous thermal current	1,2 x I _n
Degree of protection	IP20

ACCURACY CLASSES

The **Ebony Excel** range includes a comprehensive range of class accuracies between 3, 1, & 0.5. Where higher accuracy classes are required, the **Ebony Excel Plus** range has class accuracies of 0.2, 0.2S and 0.5S.

APPLICATION NOTE:

In some cases, where CT model is marked with (*), to achieve class accuracy at low currents between 20A-40A, additional primary turns are required to achieve the required output. As such, these models are only suitable for cable conductors.

Ebony Excel Current Transformers



XLOA RANGE

Case size: 62 mm wide x 40 mm deep x 78 mm high
Primary Rating: 1 - 30A
Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XLOA-1/1A



Part number	Primary current	Accuracy		Security Factor (ISF)	
		0.5	1	0.5	1
XLOA-1/5A	1A	2.5VA	5VA	10	5
XLOA-2.5/5A	2.5A	2.5VA	5VA	10	5
XLOA-5/5A	5A	2.5VA	5VA	10	5
XLOA-7.5/5A	7.5A	2.5VA	5VA	10	5
XLOA-10/5A	10A	2.5VA	5VA	10	5
XLOA-15/5A	15A	2.5VA	5VA	10	5
XLOA-20/5A	20A	2.5VA	5VA	10	5
XLOA-25/5A	25A	2.5VA	5VA	10	5
XLOA-30/5A	30A	2.5VA	5VA	10	5



XLOB RANGE

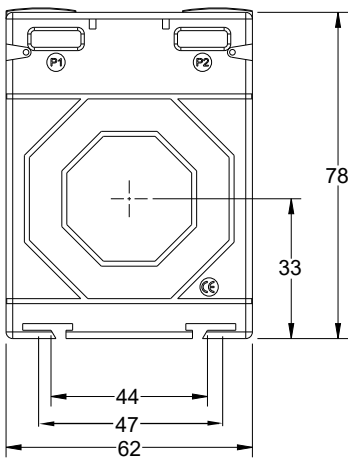
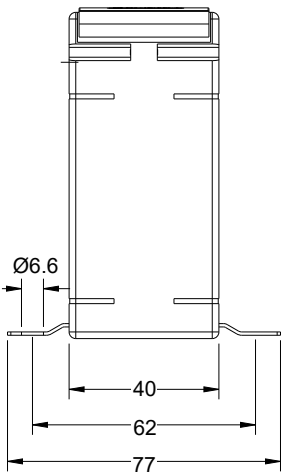
Case size: 74 mm wide x 45 mm deep x 98 mm high
Primary Rating: 1 - 60A
Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XLOB-1/1A



Part number	Primary current	Accuracy		Security Factor (ISF)	
		0.5	1	0.5	1
XLOB-1/5A	1A	5VA	10VA	10	5
XLOB-2.5/5A	2.5A	5VA	10VA	10	5
XLOB-5/5A	5A	5VA	10VA	10	5
XLOB-7.5/5A	7.5A	5VA	10VA	10	5
XLOB-10/5A	10A	5VA	10VA	10	5
XLOB-15/5A	15A	5VA	10VA	10	5
XLOB-20/5A	20A	5VA	10VA	10	5
XLOB-25/5A	25A	5VA	10VA	10	5
XLOB-30/5A	30A	5VA	10VA	10	5
XLOB-40/5A	40A	5VA	10VA	10	5
XLOB-50/5A	50A	5VA	10VA	10	5
XLOB-60/5A	60A	5VA	10VA	10	5

XLOA

XLOB



Ebony Excel Current Transformers



XL1A RANGE

Case size: 45 mm wide x 40 mm deep x 65 mm high

Aperture: Ø 14 mm

Primary Rating: 30 - 300A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL1A-30/1A



Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.5	1	3	0.5	1	3
XL1A-30/5A	30A	-	1VA	1.5VA	-	5	5
XL1A-40/5A	40A	-	1VA	1.5VA	-	5	5
XL1A-50/5A	50A	-	1.5VA	2.5VA	-	5	5
XL1A-60/5A	60A	-	1.5VA	2.5VA	-	5	5
XL1A-75/5A	75A	1.5VA	2.5VA	3.75VA	5	5	5
XL1A-80/5A	80A	1.5VA	2.5VA	3.75VA	5	5	5
XL1A-100/5A	100A	1.5VA	3.75VA	3.75VA	5	5	5
XL1A-120/5A	120A	2.5VA	3.75VA	5VA	5	5	5
XL1A-125/5A	125A	2.5VA	3.75VA	5VA	5	5	5
XL1A-150/5A	150A	2.5VA	5VA	5VA	5	5	5
XL1A-200/5A	200A	3.75VA	7.5VA	7.5VA	5	5	5
XL1A-250/5A	250A	5VA	7.5VA	10VA	5	5	5
XL1A-300/5A	300A	5VA	10VA	12.5VA	5	5	5



XL1B RANGE

Case size: 45 mm wide x 40 mm deep x 65 mm high

Aperture: 21 x 10 mm - Ø 21 mm

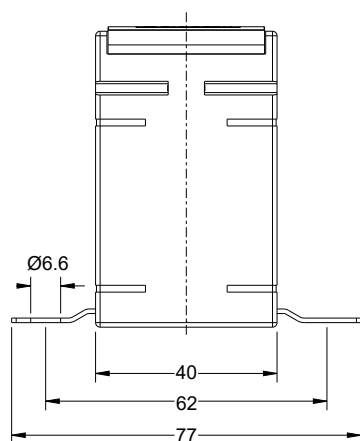
Primary Rating: 50 - 400A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL1B-50/1A

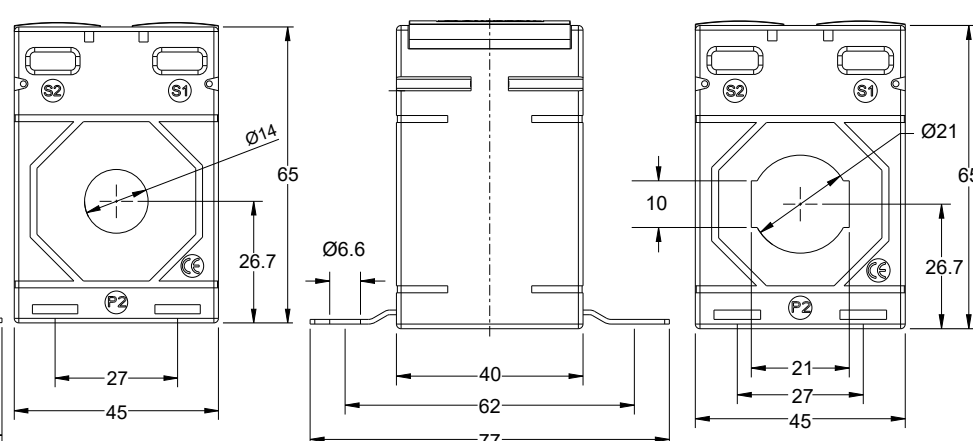


Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.5	1	3	0.5	1	3
XL1B-50/5A	50A	-	1.5VA	2VA	-	5	5
XL1B-60/5A	60A	-	1.5VA	2VA	-	5	5
XL1B-75/5A	75A	-	2.5VA	3VA	-	5	5
XL1B-80/5A	80A	1VA	2.5VA	3VA	5	5	5
XL1B-100/5A	100A	1.5VA	3.75VA	3.75VA	5	5	5
XL1B-120/5A	120A	1.5VA	3.75VA	3.75VA	5	5	5
XL1B-125/5A	125A	2.5VA	3.75VA	5VA	5	5	5
XL1B-150/5A	150A	2.5VA	5VA	5VA	5	5	5
XL1B-200/5A	200A	3.75VA	5VA	5VA	5	5	5
XL1B-250/5A	250A	5VA	5VA	7.5VA	5	5	5
XL1B-300/5A	300A	5VA	5VA	7.5VA	5	5	5
XL1B-400/5A	400A	5VA	5VA	7.5VA	5	5	5

XL1A



XL1B



Busbar and Mounting feet fixings are supplied as standard.
DIN Rail Mounting Adapters available - Part Number XL-DRBRK-1

Ebony Excel Current Transformers



XL2A RANGE

Case size: 50 mm wide x 31 mm deep x 70 mm high

Aperture: Ø 14 mm

Primary Rating: 40 - 300A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL2A-40/1A



Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.5	1	3	0.5	1	3
XL2A-40/5A	40A	-	1VA	1.5VA	-	5	5
XL2A-50/5A	50A	-	1.5VA	2VA	-	5	5
XL2A-60/5A	60A	-	1.5VA	2VA	-	5	5
XL2A-75/5A	75A	-	1.5VA	2.5VA	-	5	5
XL2A-80/5A	80A	-	1.5VA	2.5VA	-	5	5
XL2A-100/5A	100A	2.5VA	3.75VA	5VA	5	5	5
XL2A-120/5A	120A	2.5VA	3.75VA	5VA	5	5	5
XL2A-125/5A	125A	2.5VA	3.75VA	5VA	5	5	5
XL2A-150/5A	150A	3.75VA	5VA	7.5VA	5	5	5
XL2A-160/5A	160A	3.75VA	5VA	7.5VA	5	5	5
XL2A-200/5A	200A	3.75VA	5VA	7.5VA	5	5	5
XL2A-250/5A	250A	5VA	7.5VA	7.5VA	5	5	5
XL2A-300/5A	300A	7.5VA	7.5VA	7.5VA	5	5	5



XL2B RANGE

Case size: 50 mm wide x 31 mm deep x 70 mm high

Aperture: 20.5 x 10.5 mm - Ø 21 mm

Primary Rating: 20 - 400A

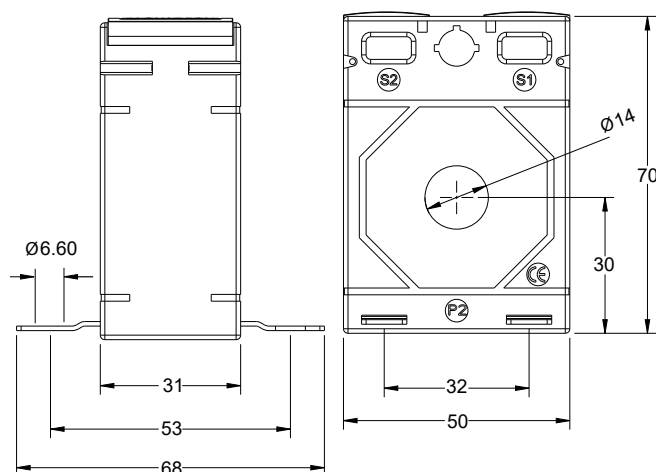
Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL2B-20/1A



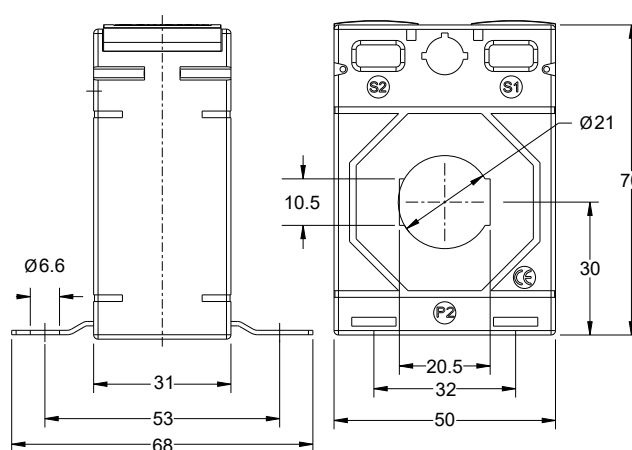
Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.5	1	3	0.5	1	3
XL2B-20/5A (*)	20A	-	1VA	1VA	-	-	5
XL2B-30/5A (*)	30A	-	1VA	1VA	-	-	5
XL2B-40/5A (*)	40A	-	1VA	1VA	-	-	5
XL2B-50/5A	50A	-	1VA	2VA	-	5	5
XL2B-60/5A	60A	-	1VA	2VA	-	5	5
XL2B-75/5A	75A	-	1.5VA	2.5VA	-	5	5
XL2B-80/5A	80A	1VA	2.5VA	3.75VA	5	5	5
XL2B-100/5A	100A	1.5VA	2.5VA	3.75VA	5	5	5
XL2B-120/5A	120A	2.5VA	2.5VA	3.75VA	5	5	5
XL2B-125/5A	125A	2.5VA	3.75VA	5VA	5	5	5
XL2B-150/5A	150A	2.5VA	5VA	5VA	5	5	5
XL2B-160/5A	160A	2.5VA	5VA	5VA	5	5	5
XL2B-200/5A	200A	3.75VA	5VA	5VA	5	5	5
XL2B-250/5A	250A	5VA	5VA	5VA	5	5	5
XL2B-300/5A	300A	5VA	7.5VA	7.5VA	5	5	5
XL2B-400/5A	400A	5VA	7.5VA	7.5VA	5	5	5

*Application note: 20A with 3 primary turns, 30A & 40A with 2 primary turns

XL2A



XL2B



Busbar and Mounting feet fixings are supplied as standard.
DIN Rail Mounting Adapters available - Part Number XL-DRBRK-2

Ebony Excel Current Transformers



XL2C RANGE

Case size: 50 mm wide x 31 mm deep x 70 mm high

Aperture: 30.5 x 10.5 mm - 25.5 x 15.5 mm - Ø 26 mm

Primary Rating: 20 - 600A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL2C-20/1A



Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.5	1	3	0.5	1	3
XL2C-20/5A (*)	20A	-	1VA	1.5VA	-	-	5
XL2C-40/5A (*)	40A	-	1VA	1.5VA	-	-	5
XL2C-75/5A	75A	-	1VA	1.5VA	-	5	5
XL2C-80/5A	80A	-	1.5VA	2VA	-	5	5
XL2C-100/5A	100A	1VA	2.5VA	2.5VA	5	5	5
XL2C-120/5A	120A	1VA	2.5VA	3VA	5	5	5
XL2C-125/5A	125A	1VA	2.5VA	3VA	5	5	5
XL2C-150/5A	150A	2.5VA	3.75VA	3.75VA	5	5	5
XL2C-160/5A	160A	2.5VA	3.75VA	3.75VA	5	5	5
XL2C-200/5A	200A	2.5VA	5VA	5VA	5	5	5
XL2C-250/5A	250A	5VA	5VA	6.25VA	5	5	5
XL2C-300/5A	300A	5VA	5VA	6.25VA	5	5	5
XL2C-400/5A	400A	5VA	6.25VA	6.25VA	5	5	5
XL2C-500/5A	500A	5VA	6.25VA	7.5VA	5	5	5
XL2C-600/5A	600A	5VA	7.5VA	10VA	5	5	5

*Application note: 20A with 4 primary turns, 40A with 2 primary turns

Busbar and Mounting feet fixings are supplied as standard.

DIN Rail Mounting Adapters available - Part Number XL-DRBRK-2



XL2D RANGE

Case size: 50 mm wide x 51 mm deep x 70 mm high

Aperture: Ø 14 mm

Primary Rating: 30 - 300A

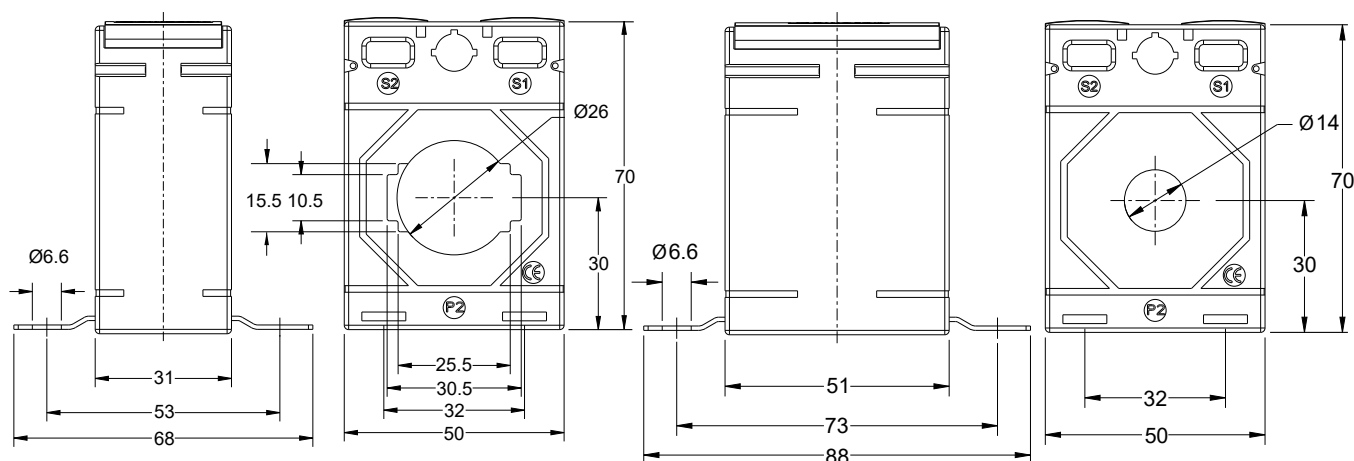
Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL2D-30/1A



Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.5	1	3	0.5	1	3
XL2D-30/5A	30A	-	1VA	1VA	-	5	5
XL2D-40/5A	40A	-	1VA	1VA	-	5	5
XL2D-50/5A	50A	1.5VA	1.5VA	2VA	5	5	5
XL2D-60/5A	60A	1.5VA	1.5VA	2.5VA	5	5	5
XL2D-75/5A	75A	2.5VA	5VA	5VA	5	5	5
XL2D-80/5A	80A	2.5VA	5VA	7.5VA	5	5	5
XL2D-100/5A	100A	3.75VA	5VA	7.5VA	5	5	5
XL2D-120/5A	120A	3.75VA	5VA	7.5VA	5	5	5
XL2D-125/5A	125A	3.75VA	5VA	7.5VA	5	5	5
XL2D-150/5A	150A	5VA	7.5VA	10VA	5	5	5
XL2D-200/5A	200A	7.5VA	10VA	12.5VA	5	5	5
XL2D-250/5A	250A	10VA	12.5VA	15VA	5	5	5
XL2D-300/5A	300A	10VA	12.5VA	15VA	5	5	5

XL2C

XL2D



Ebony Excel Current Transformers



XL2E RANGE

Case size: 50 mm wide x 51 mm deep x 70 mm high

Aperture: 20.5 x 10.5 mm - Ø 21 mm

Primary Rating: 50 - 400A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL2E-50/1A



Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.5	1	3	0.5	1	3
XL2E-50/5A	50A	1VA	2.5VA	3VA	10	5	5
XL2E-60/5A	60A	1VA	3.75VA	3.75VA	10	5	5
XL2E-75/5A	75A	1.5VA	3.75VA	3.75VA	5	5	5
XL2E-80/5A	80A	2.5VA	5VA	5VA	5	5	5
XL2E-100/5A	100A	2.5VA	5VA	7.5VA	5	5	5
XL2E-120/5A	120A	3.75VA	5VA	7.5VA	5	5	5
XL2E-125/5A	125A	5VA	5VA	7.5VA	5	5	5
XL2E-150/5A	150A	5VA	10VA	10VA	5	5	5
XL2E-200/5A	200A	10VA	12.5VA	12.5VA	5	5	5
XL2E-250/5A	250A	10VA	15VA	15VA	5	5	5
XL2E-300/5A	300A	7.5VA	12.5VA	15VA	5	5	5
XL2E-400/5A	400A	10VA	15VA	15VA	5	5	5



XL2F RANGE

Case size: 51 mm wide x 52 mm deep x 70 mm high

Aperture: 30.5 x 10.5 mm - 25.5 x 15.5 mm - Ø 26 mm

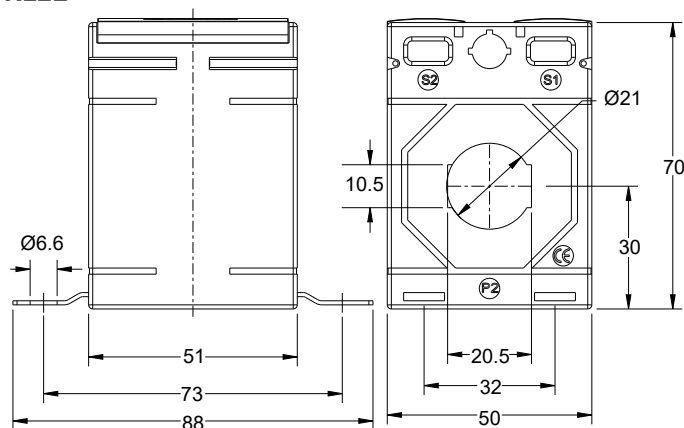
Primary Rating: 50 - 600A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL2F-50/1A

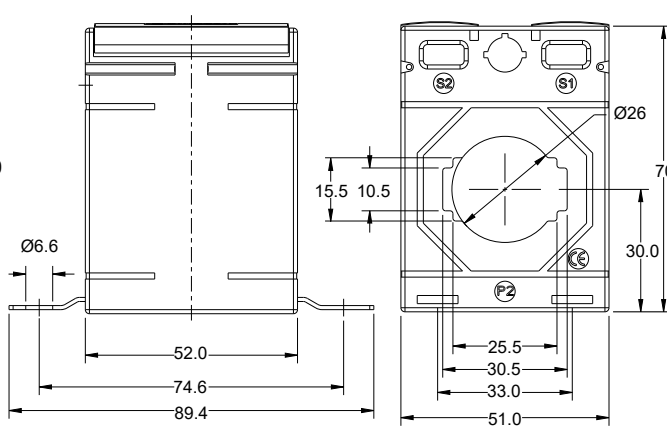


Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.5	1	3	0.5	1	3
XL2F-50/5A	50A	-	1.5VA	1.5VA	-	5	5
XL2F-60/5A	60A	-	1.5VA	2VA	-	5	5
XL2F-75/5A	75A	-	2.5VA	2.5VA	-	5	5
XL2F-80/5A	80A	-	2.5VA	3.75VA	-	5	5
XL2F-100/5A	100A	1VA	3.75VA	3.75VA	5	5	5
XL2F-120/5A	120A	2.5VA	5VA	5VA	5	5	5
XL2F-125/5A	125A	2.5VA	5VA	5VA	5	5	5
XL2F-150/5A	150A	5VA	5VA	7.5VA	5	5	5
XL2F-200/5A	200A	5VA	7.5VA	10VA	5	5	5
XL2F-250/5A	250A	5VA	10VA	10VA	5	5	5
XL2F-300/5A	300A	5VA	10VA	10VA	5	5	5
XL2F-400/5A	400A	10VA	12.5VA	12.5VA	5	5	5
XL2F-500/5A	500A	10VA	12.5VA	15VA	5	5	5
XL2F-600/5A	600A	10VA	15VA	15VA	5	5	5

XL2E



XL2F



Ebony Excel Current Transformers



XL3A RANGE

Case size: 62 mm wide x 40 mm deep x 78 mm high

Aperture: Ø 22.5 mm

Primary Rating: 50 - 600A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL3A-50/1A



Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.5	1	3	0.5	1	3
XL3A-50/5A	50A	-	1.5VA	2.5VA	-	5	5
XL3A-60/5A	60A	-	2.5VA	3.75VA	-	5	5
XL3A-75/5A	75A	1.5VA	2.5VA	3.75VA	5	5	5
XL3A-80/5A	80A	2.5VA	2.5VA	3.75VA	5	5	5
XL3A-100/5A	100A	2.5VA	5VA	7.5VA	5	5	5
XL3A-120/5A	120A	3.75VA	5VA	7.5VA	5	5	5
XL3A-125/5A	125A	3.75VA	5VA	7.5VA	5	5	5
XL3A-150/5A	150A	5VA	7.5VA	10VA	5	5	5
XL3A-200/5A	200A	7.5VA	10VA	12.5VA	5	5	5
XL3A-250/5A	250A	10VA	15VA	15VA	5	5	5
XL3A-300/5A	300A	10VA	15VA	15VA	5	5	5
XL3A-400/5A	400A	15VA	15VA	20VA	5	5	5
XL3A-500/5A	500A	15VA	15VA	20VA	5	5	5
XL3A-600/5A	600A	15VA	15VA	20VA	5	5	5



XL3B RANGE

Case size: 62 mm wide x 40 mm deep x 78 mm high

Aperture: 20.5 x 12.5 mm - 15.5 x 15.5 mm

Primary Rating: 50 - 500A

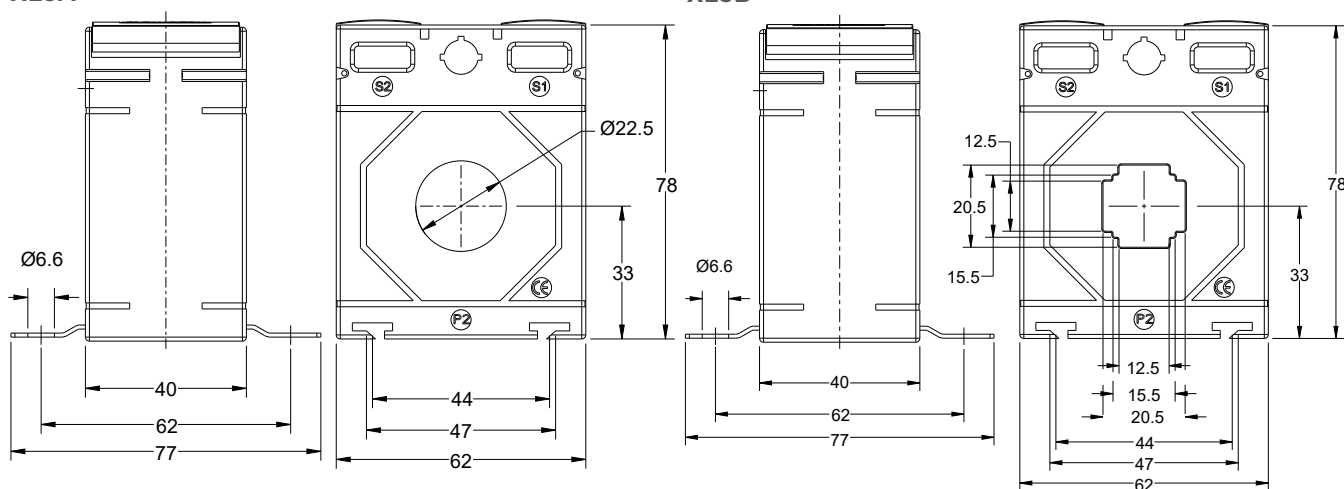
Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL3B-50/1A



Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.5	1	3	0.5	1	3
XL3B-50/5A	50A	-	1.5VA	2.5VA	-	5	5
XL3B-60/5A	60A	-	2.5VA	3.75VA	-	5	5
XL3B-75/5A	75A	1.5VA	3.75VA	3.75VA	5	5	5
XL3B-80/5A	80A	2.5VA	3.75VA	3.75VA	5	5	5
XL3B-100/5A	100A	2.5VA	5VA	7.5VA	5	5	5
XL3B-120/5A	120A	3.75VA	5VA	7.5VA	5	5	5
XL3B-125/5A	125A	3.75VA	5VA	7.5VA	5	5	5
XL3B-150/5A	150A	5VA	7.5VA	10VA	5	5	5
XL3B-200/5A	200A	7.5VA	10VA	12.5VA	5	5	5
XL3B-250/5A	250A	10VA	15VA	15VA	5	5	5
XL3B-300/5A	300A	15VA	15VA	15VA	5	5	5
XL3B-400/5A	400A	15VA	15VA	20VA	5	5	5
XL3B-500/5A	500A	15VA	15VA	20VA	5	5	5

XL3A

XL3B



Busbar and Mounting feet fixings are supplied as standard.
DIN Rail Mounting Adapters available - Part Number XL-DRBRK-3

Ebony Excel Current Transformers



XL3C RANGE

Case size: 62 mm wide x 40 mm deep x 78 mm high

Aperture: 31 x 11 mm - 26 x 21 mm - Ø 30.5 mm

Primary Rating: 50 - 800

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL3C-50/1A



Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.5	1	3	0.5	1	3
XL3C-50/5A	50A	-	1.25VA	2VA	-	5	5
XL3C-60/5A	60A	-	1.5VA	2VA	-	5	5
XL3C-75/5A	75A	-	2.5VA		-	5	5
XL3C-80/5A	80A	-	2VA	2.5VA	-	5	5
XL3C-100/5A	100A	1.5VA	3.75VA	3.75VA	5	5	5
XL3C-120/5A	120A	2.5VA	3.75VA	5VA	5	5	5
XL3C-125/5A	125A	2.5VA	3.75VA	5VA	5	5	5
XL3C-150/5A	150A	3.75VA	7.5VA	7.5VA	5	5	5
XL3C-200/5A	200A	5VA	10VA	10VA	5	5	5
XL3C-250/5A	250A	5VA	10VA	15VA	5	5	5
XL3C-300/5A	300A	10VA	15VA	15VA	5	5	5
XL3C-400/5A	400A	12.5VA	15VA	15VA	5	5	5
XL3C-500/5A	500A	12.5VA	15VA	15VA	5	5	5
XL3C-600/5A	600A	15VA	20VA	20VA	5	5	5
XL3C-750/5A	750A	15VA	15VA	20VA	5	5	5
XL3C-800/5A	800A	15VA	15VA	20VA	5	5	5



XL3D RANGE

Case size: 62 mm wide x 40 mm deep x 78 mm high

Aperture: 40.5 x 11 mm - 31 x 21 mm - Ø 31 mm

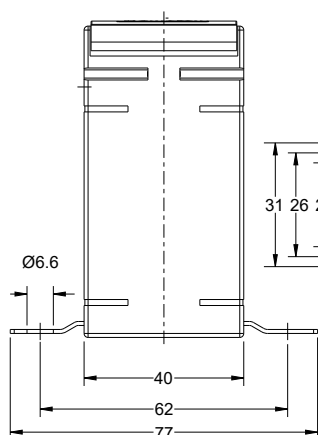
Primary Rating: 100 - 800A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL3D-100/1A

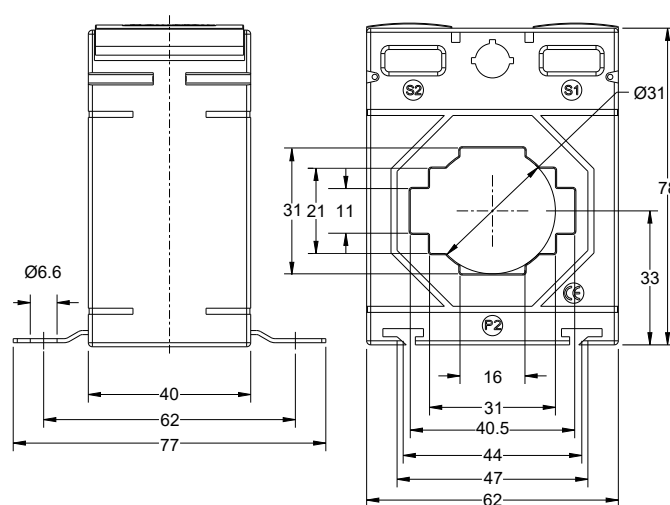
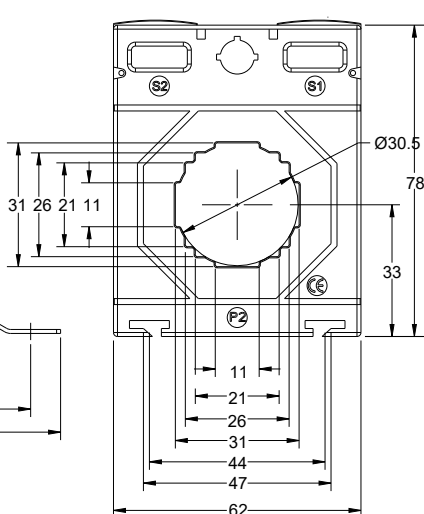


Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.5	1	3	0.5	1	3
XL3D-100/5A	100A	-	1.5VA	1.5VA	-	5	5
XL3D-120/5A	120A	-	1.5VA	2.5VA	-	5	5
XL3D-125/5A	125A	-	1.5VA	2.5VA	-	5	5
XL3D-150/5A	150A	-	2.5VA	3VA	-	5	5
XL3D-200/5A	200A	1.5VA	3.75VA	3.75VA	5	5	5
XL3D-250/5A	250A	2.5VA	5VA	5VA	5	5	5
XL3D-300/5A	300A	5VA	5VA	5VA	5	5	5
XL3D-400/5A	400A	5VA	5VA	7.5VA	5	5	5
XL3D-500/5A	500A	5VA	7.5VA	10VA	5	5	5
XL3D-600/5A	600A	7.5VA	10	12.5VA	5	5	5
XL3D-750/5A	750A	10VA	10	12.5VA	5	5	5
XL3D-800/5A	800A	10VA	10	12.5VA	5	5	5

XL3C



XL3D



Busbar and Mounting feet fixings are supplied as standard.
DIN Rail Mounting Adapters available - Part Number XL-DRBRK-3

Ebony Excel Current Transformers



XL3E RANGE

Case size: 62 mm wide x 51 mm deep x 78 mm high

Aperture: 30.5 x 10.5 mm - Ø 28 mm

Primary Rating: 40 - 800A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL3E-40/1A



Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.5	1	3	0.5	1	3
XL3E-40/5A	40A	-	1VA	1VA	-	10	10
XL3E-50/5A	50A	-	1.5VA	2.5VA	-	5	5
XL3E-60/5A	60A	-	2.5VA	3.75VA	-	5	5
XL3E-75/5A	75A	2.5VA	2.5VA	3.75VA	5	5	5
XL3E-80/5A	80A	2.5VA	3.75VA	5VA	5	5	5
XL3E-100/5A	100A	2.5VA	5VA	7.5VA	5	5	5
XL3E-120/5A	120A	5VA	5VA	7.5VA	5	5	5
XL3E-125/5A	125A	5VA	5VA	7.5VA	5	5	5
XL3E-150/5A	150A	5VA	7.5VA	10VA	5	5	5
XL3E-200/5A	200A	10VA	15VA	15VA	5	5	5
XL3E-250/5A	250A	15VA	15VA	20VA	5	5	5
XL3E-300/5A	300A	15VA	15VA	20VA	5	5	5
XL3E-400/5A	400A	15VA	30VA	30VA	5	5	5
XL3E-500/5A	500A	15VA	30VA	30VA	5	5	5
XL3E-600/5A	600A	20VA	30VA	30VA	5	5	5
XL3E-750/5A	750A	20VA	30VA	30VA	5	5	5
XL3E-800/5A	800A	20VA	30VA	35VA	5	5	5



XL4A RANGE

Case size: 74 mm wide x 45 mm deep x 98 mm high

Aperture: 21 x 11 mm - 15.5 X 15.5 mm- Ø 20.4 mm

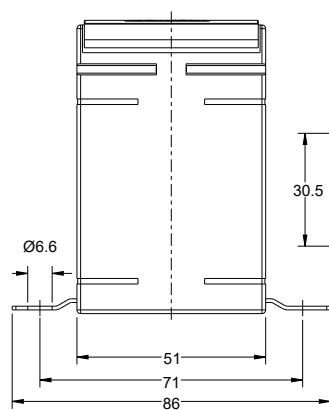
Primary Rating: 40 - 500A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL4A-40/1A

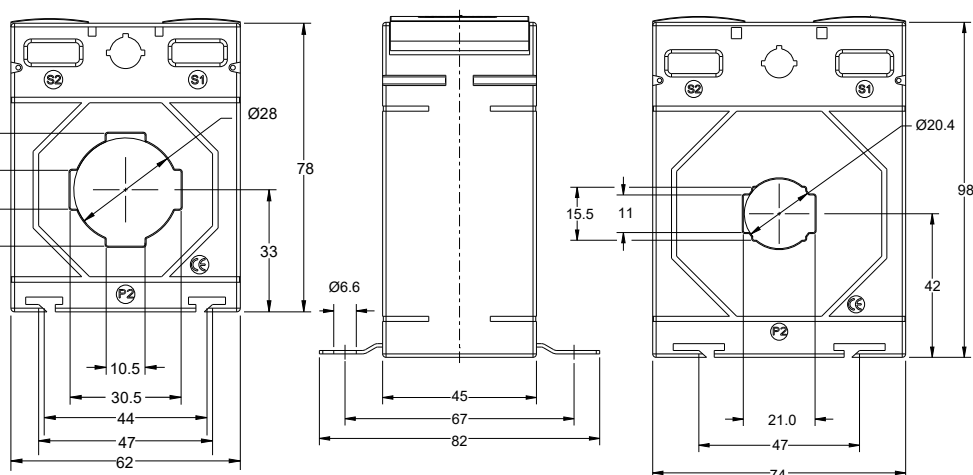


Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.5	1	3	0.5	1	3
XL4A-40/5A	40A	-	1.5VA	2VA	-	10	10
XL4A-50/5A	50A	1VA	2.5VA	3.75VA	-	10	10
XL4A-60/5A	60A	1VA	3.75VA	5VA	-	5	5
XL4A-75/5A	75A	1.5VA	5VA	7.5VA	15	5	5
XL4A-80/5A	80A	2.5VA	5VA	7.5VA	15	5	5
XL4A-100/5A	100A	5VA	7.5VA	10VA	10	5	5
XL4A-120/5A	120A	5VA	10VA	12.5VA	10	5	5
XL4A-125/5A	125A	5VA	10VA	12.5VA	10	5	5
XL4A-150/5A	150A	7.5VA	12.5VA	15VA	10	5	5
XL4A-200/5A	200A	10VA	15VA	20VA	5	5	5
XL4A-250/5A	250A	10VA	15VA	20VA	5	5	5
XL4A-300/5A	300A	15VA	15VA	20VA	5	5	5
XL4A-400/5A	400A	15VA	20VA	20VA	5	5	5
XL4A-500/5A	500A	15VA	15VA	25VA	5	5	5

XL3E



XL4A



Ebony Excel Current Transformers



XL4B RANGE

Case size: 74 mm wide x 45 mm deep x 98 mm high

Aperture: 31 x 15 mm - 21 x 21 mm - Ø 26 mm

Primary Rating: 40 - 800A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL4B-40/1A



Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.5	1	3	0.5	1	3
XL4B-40/5A	40A	-	1.5VA	1.5VA	-	10	10
XL4B-50/5A	50A	-	1.5VA	2.5VA	-	10	10
XL4B-60/5A	60A	-	2.5VA	3.75VA	-	5	5
XL4B-75/5A	75A	1.5VA	2.5VA	3.75VA	10	5	10
XL4B-80/5A	80A	1.5VA	3.75VA	5VA	10	5	5
XL4B-100/5A	100A	2.5VA	5VA	7.5VA	10	5	5
XL4B-120/5A	120A	2.5VA	5VA	7.5VA	10	5	5
XL4B-125/5A	125A	2.5VA	5VA	7.5VA	10	5	5
XL4B-150/5A	150A	5VA	7.5VA	10VA	5	5	5
XL4B-200/5A	200A	10VA	15VA	15VA	5	5	5
XL4B-250/5A	250A	10VA	15VA	15VA	5	5	5
XL4B-300/5A	300A	10VA	15VA	15VA	5	5	5
XL4B-400/5A	400A	15VA	20VA	25VA	5	5	5
XL4B-500/5A	500A	15VA	20VA	25VA	5	5	5
XL4B-600/5A	600A	15VA	20VA	25VA	5	5	5
XL4B-750/5A	750A	20VA	30VA	30VA	5	5	5
XL4B-800/5A	800A	30VA	30VA	35VA	5	5	5

XL4C RANGE

Case size: 74 mm wide x 45 mm deep x 98 mm high

Aperture: 41 x 12.5 mm - 31 x 31 mm - Ø 35 mm

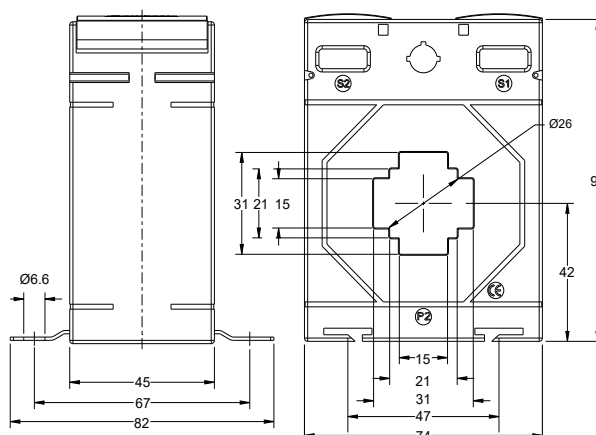
Primary Rating: 40 - 1000A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL4C-40/1A

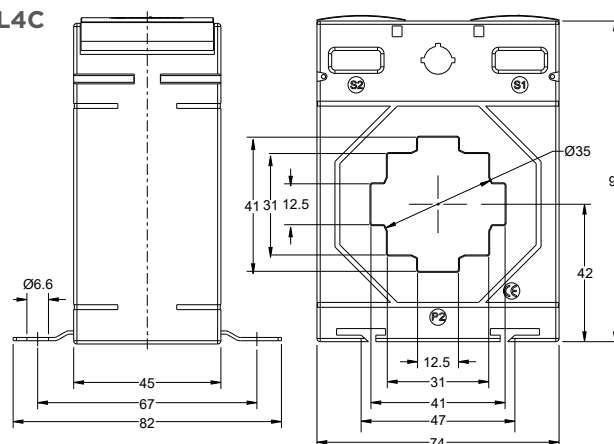


Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.5	1	3	0.5	1	3
XL4C-40/5A	40A	-	1VA	1VA	-	5	5
XL4C-50/5A	50A	-	1.5VA	1.5VA	-	5	5
XL4C-60/5A	60A	-	1.5VA	1.5VA	-	5	5
XL4C-75/5A	75A	-	2.5VA	2.5VA	-	5	5
XL4C-80/5A	80A	-	2.5VA	2.5VA	-	5	5
XL4C-100/5A	100A	1.5VA	3.75VA	3.75VA	10	5	5
XL4C-120/5A	120A	1.5VA	2.5VA	3.75VA	10	5	5
XL4C-125/5A	125A	1.5VA	2.5VA	3.75VA	10	5	5
XL4C-150/5A	150A	3.75VA	5VA	5VA	5	5	5
XL4C-200/5A	200A	5VA	10VA	7.5VA	5	5	5
XL4C-250/5A	250A	5VA	10VA	10VA	5	5	5
XL4C-300/5A	300A	10VA	15VA	15VA	5	5	5
XL4C-400/5A	400A	10VA	15VA	15VA	5	5	5
XL4C-500/5A	500A	15VA	20VA	20VA	5	5	5
XL4C-600/5A	600A	15VA	20VA	20VA	5	5	5
XL4C-750/5A	750A	15VA	20VA	20VA	5	5	5
XL4C-800/5A	800A	15VA	20VA	25VA	5	5	5
XL4C-1000/5A	1000A	15VA	20VA	25VA	5	5	5

XL4B



XL4C



Ebony Excel Current Transformers



XL4D RANGE

Case size: 74 mm wide x 45 mm deep x 98 mm high

Aperture: 51 x 12.5 mm - 41 x 21 mm - 31 x 31 mm - Ø 41 mm

Primary Rating: 100 - 1000A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL4D-100/1A



Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.5	1	3	0.5	1	3
XL4D-100/5A	100A	-	1.5VA	2VA	-	5	5
XL4D-120/5A	120A	-	1.5VA	2.5VA	-	5	5
XL4D-125/5A	125A	-	1.5VA	2.5VA	-	5	5
XL4D-150/5A	150A	-	2.5VA	3.75VA	-	5	5
XL4D-200/5A	200A	1.5VA	3.75VA	5VA	5	5	5
XL4D-250/5A	250A	2.5VA	5VA	7.5VA	5	5	5
XL4D-300/5A	300A	5VA	7.5VA	7.5VA	5	5	5
XL4D-400/5A	400A	5VA	7.5VA	10VA	5	5	5
XL4D-500/5A	500A	7.5VA	10VA	12.5VA	5	5	5
XL4D-600/5A	600A	10VA	12.5VA	15VA	5	5	5
XL4D-750/5A	750A	12.5VA	15VA	20VA	5	5	5
XL4D-800/5A	800A	12.5VA	15VA	20VA	5	5	5
XL4D-1000/5A	1000A	12.5VA	15VA	20VA	5	5	5



XL5A RANGE

Case size: 86 mm wide x 45 mm deep x 110 mm high

Aperture: 41 x 11 mm - 31 x 31 mm - Ø 36 mm diameter

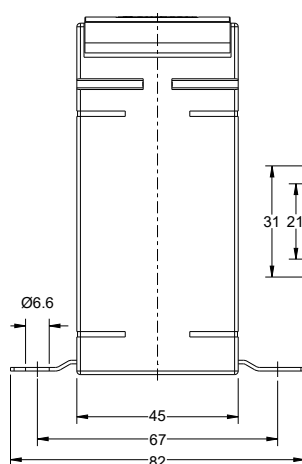
Primary Rating: 50 - 1000A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL5A-50/1A

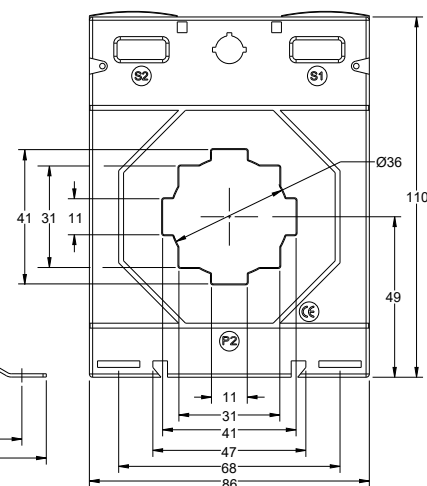
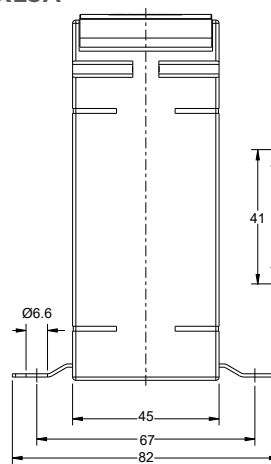
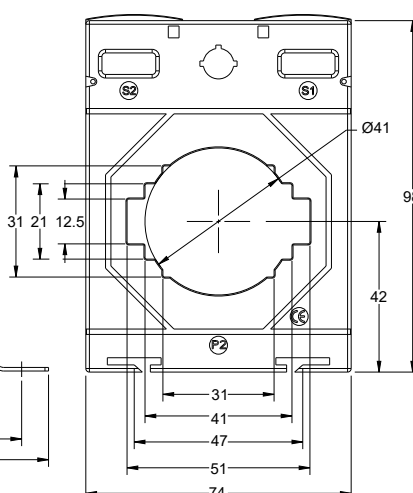


Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.5	1	3	0.5	1	3
XL5A-50/5A	50A	-	1.5VA	1.5VA	-	5	5
XL5A-60/5A	60A	-	1.5VA	2VA	-	5	5
XL5A-75/5A	75A	-	2.5VA	3.75VA	-	5	5
XL5A-80/5A	80A	-	2.5VA	3.75VA	-	5	5
XL5A-100/5A	100A	2.5VA	5VA	5VA	10	5	5
XL5A-120/5A	120A	2.5VA	5VA	7.5VA	10	5	5
XL5A-125/5A	125A	2.5VA	5VA	7.5VA	10	5	5
XL5A-150/5A	150A	5VA	5VA	7.5VA	10	5	5
XL5A-200/5A	200A	7.5VA	15VA	10VA	10	5	5
XL5A-250/5A	250A	7.5VA	15VA	15VA	5	5	5
XL5A-300/5A	300A	15VA	15VA	20VA	5	5	5
XL5A-400/5A	400A	15VA	20VA	25VA	5	5	5
XL5A-500/5A	500A	30VA	30VA	35VA	5	5	5
XL5A-600/5A	600A	30VA	30VA	35VA	5	5	5
XL5A-750/5A	750A	30VA	30VA	35VA	5	5	5
XL5A-800/5A	800A	30VA	30VA	35VA	5	5	5
XL5A-1000/5A	1000A	30VA	30VA	35VA	5	5	5

XL4D



XL5A



Ebony Excel Current Transformers



XL5B RANGE

Case size: 86 mm wide x 45 mm deep x 110 mm high

Aperture: 51 x 12.5 mm - 41 x 31 mm - Ø 46 mm

Primary Rating: 100 - 1250A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL5B-100/1A



Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.5	1	3	0.5	1	3
XL5B-100/5A	100A	1VA	1.5VA	2.5VA	-	5	5
XL5B-120/5A	120A	1.5VA	2.5VA	3.75VA	10	5	5
XL5B-125/5A	125A	1.5VA	2.5VA	3.75VA	10	5	5
XL5B-150/5A	150A	2.5VA	5VA	7.5VA	5	5	5
XL5B-200/5A	200A	5VA	7.5VA	10VA	5	5	5
XL5B-250/5A	250A	7.5VA	10VA	12.5VA	5	5	5
XL5B-300/5A	300A	7.5VA	10VA	15VA	5	5	5
XL5B-400/5A	400A	15VA	15VA	20VA	5	5	5
XL5B-500/5A	500A	15VA	20VA	20VA	5	5	5
XL5B-600/5A	600A	15VA	20VA	20VA	5	5	5
XL5B-750/5A	750A	15VA	20VA	25VA	5	5	5
XL5B-800/5A	800A	20VA	30VA	30VA	5	5	5
XL5B-1000/5A	1000A	30VA	30VA	35VA	5	5	5
XL5B-1200/5A	1200A	30VA	30VA	35VA	5	5	5
XL5B-1250/5A	1250A	30VA	30VA	35VA	5	5	5



XL5C RANGE

Case size: 86 mm wide x 45 mm deep x 110 mm high

Aperture: 61 x 12.5 mm - 51 x 31 mm - Ø 51 mm

Primary Rating: 100 - 1600A

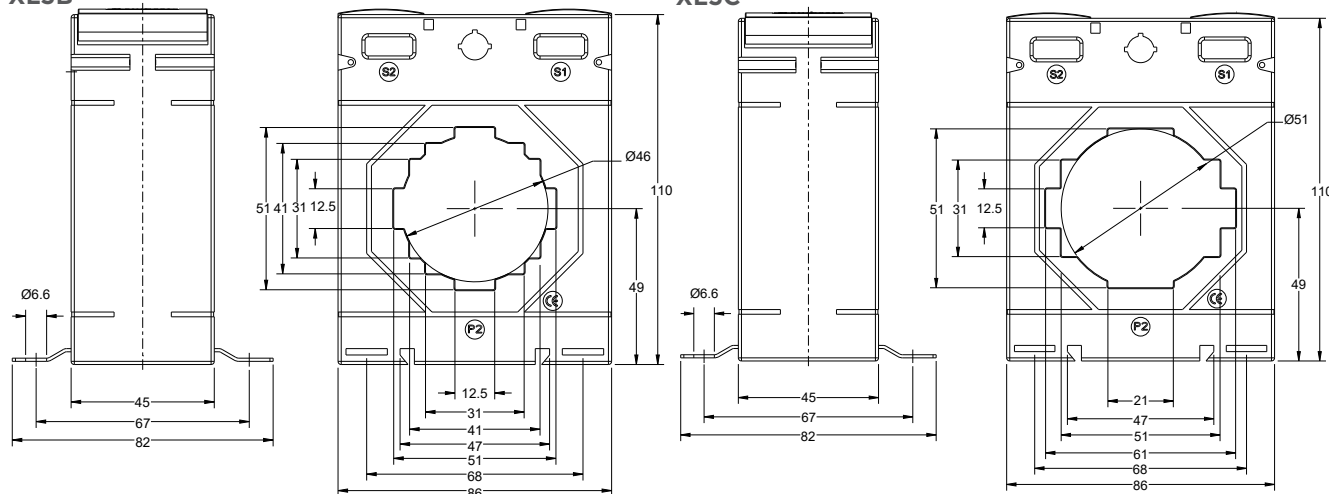
Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL5C-100/1A



Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.5	1	3	0.5	1	3
XL5C-100/5A	100A	-	1VA	1.5VA	-	5	5
XL5C-120/5A	120A	-	1.5VA	2.5VA	-	5	5
XL5C-125/5A	125A	-	2.5VA	3.75VA	-	5	5
XL5C-150/5A	150A	-	2.5VA	3.75VA	-	5	5
XL5C-200/5A	200A	1.5VA	3.75VA	5VA	5	5	5
XL5C-250/5A	250A	2.5VA	5VA	7.5VA	5	5	5
XL5C-300/5A	300A	5VA	7.5VA	10VA	5	5	5
XL5C-400/5A	400A	10VA	12.5VA	15VA	5	5	5
XL5C-500/5A	500A	10VA	15VA	15VA	5	5	5
XL5C-600/5A	600A	15VA	15VA	20VA	5	5	5
XL5C-750/5A	750A	15VA	20VA	25VA	5	5	5
XL5C-800/5A	800A	20VA	20VA	25VA	5	5	5
XL5C-1000/5A	1000A	20VA	30VA	25VA	5	5	5
XL5C-1200/5A	1200A	20VA	30VA	25VA	5	5	5
XL5C-1250/5A	1250A	20VA	20VA	25VA	5	5	5
XL5C-1500/5A	1500A	20VA	20VA	25VA	5	5	5
XL5C-1600/5A	1600A	20VA	20VA	25VA	5	5	5

XL5B

XL5C



Ebony Excel Current Transformers



XL6A RANGE

Case size: 99 mm wide x 45 mm deep x 170 mm high

Aperture: 41 x 103 mm

Primary Rating: 400 - 2500A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL6A-400/1A



Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.5	1	3	0.5	1	3
XL6A-400/5A	400A	2.5VA	5VA	5VA	10	5	5
XL6A-500/5A	500A	2.5VA	5VA	6.25VA	10	5	5
XL6A-600/5A	600A	2.5VA	5VA	7.5VA	10	5	5
XL6A-750/5A	750A	2.5VA	5VA	7.5VA	10	5	5
XL6A-800/5A	800A	5VA	10VA	10VA	10	5	5
XL6A-1000/5A	1000A	10VA	15VA	15VA	5	5	5
XL6A-1200/5A	1200A	10VA	15VA	15VA	5	5	5
XL6A-1250/5A	1250A	10VA	15VA	20VA	5	5	5
XL6A-1500/5A	1500A	15VA	30VA	30VA	5	5	5
XL6A-1600/5A	1600A	15VA	30VA	30VA	5	5	5
XL6A-2000/5A	2000A	15VA	30VA	35VA	5	5	5
XL6A-2400/5A	2400A	15VA	20VA	35VA	10	10	10
XL6A-2500/5A	2500A	15VA	30VA	35VA	10	5	5



XL6B RANGE

Case size: 99 mm wide x 45 mm deep x 170 mm high

Aperture: 38 x 128 mm

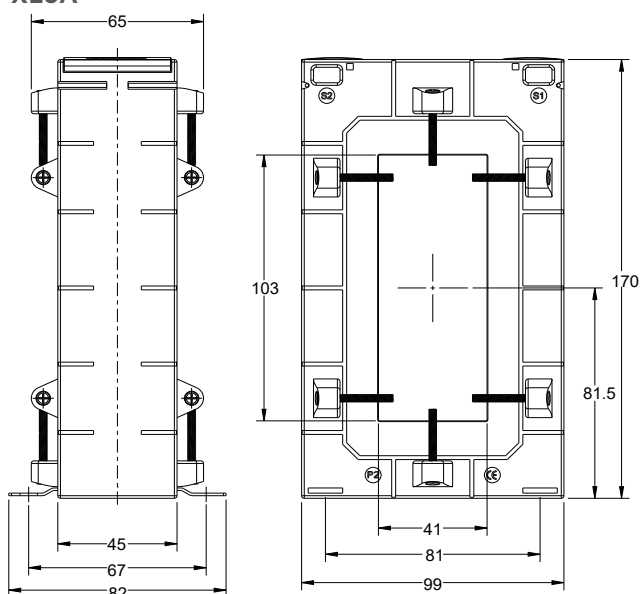
Primary Rating: 400 - 3200A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL6B-400/1A

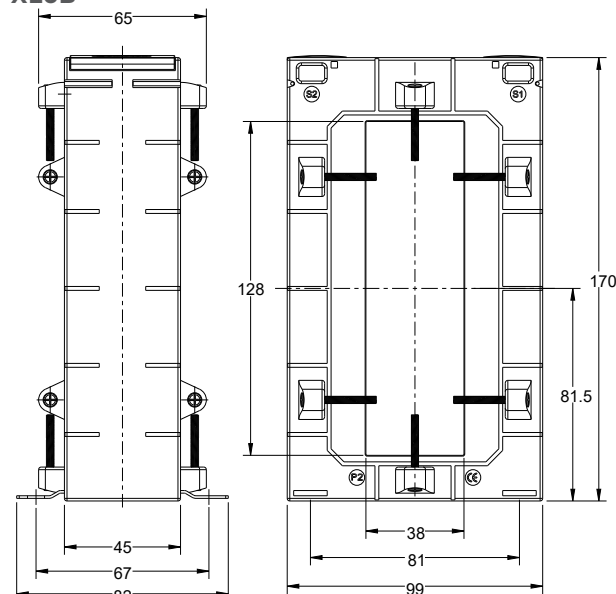


Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.5	1	3	0.5	1	3
XL6B-400/5A	400A	2.5VA	5VA	5VA	10	5	5
XL6B-500/5A	500A	2.5VA	5VA	6.25VA	10	5	5
XL6B-600/5A	600A	2.5VA	5VA	7.5VA	10	5	5
XL6B-750/5A	750A	2.5VA	5VA	7.5VA	10	5	5
XL6B-800/5A	800A	5VA	10VA	10VA	10	5	5
XL6B-1000/5A	1000A	10VA	15VA	15VA	5	5	5
XL6B-1200/5A	1200A	10VA	15VA	15VA	5	5	5
XL6B-1250/5A	1250A	10VA	15VA	20VA	5	5	5
XL6B-1500/5A	1500A	15VA	30VA	30VA	5	5	5
XL6B-1600/5A	1600A	15VA	30VA	30VA	5	5	5
XL6B-2000/5A	2000A	15VA	30VA	35VA	5	5	5
XL6B-2500/5A	2500A	15VA	30VA	35VA	10	5	5
XL6B-3200/5A	3200A	10VA	12.5VA	35VA	10	10	5

XL6A



XL6B



Ebony Excel Current Transformers



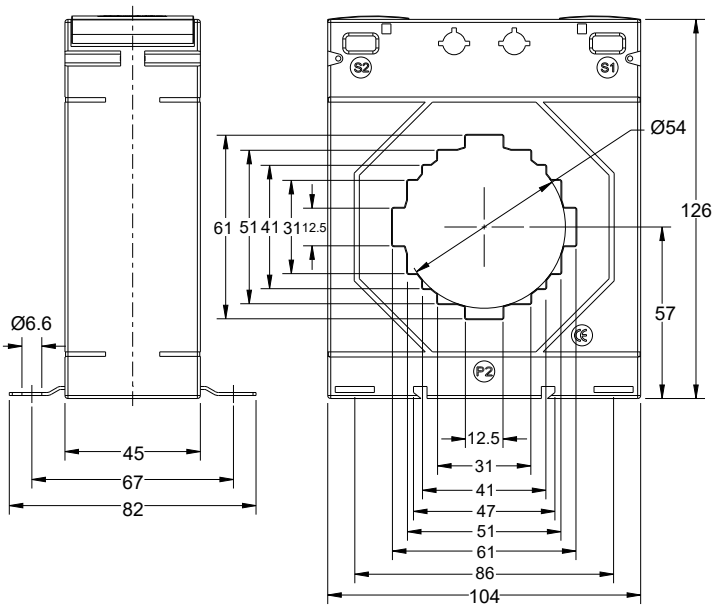
XL7A RANGE

Case size: 104 mm wide x 45 mm deep x 126 mm high
Aperture: 61 x 12.5 mm - 51 x 31 mm - 41 x 41 mm - Ø 54 mm
Primary Rating: 100 - 1600A
Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL7A-100/1A



Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.5	1	3	0.5	1	3
XL7A-100/5A	100A	-	1.5VA	2.5VA	-	10	5
XL7A-120/5A	120A	-	2.5VA	3.75VA	-	10	5
XL7A-125/5A	125A	-	2.5VA	3.75VA	-	10	5
XL7A-150/5A	150A	2.5VA	5VA	7.5VA	10	5	5
XL7A-200/5A	200A	5VA	10VA	12.5VA	10	5	5
XL7A-250/5A	250A	7.5VA	12.5VA	15VA	5	5	5
XL7A-300/5A	300A	10VA	15VA	15VA	5	5	5
XL7A-400/5A	400A	10VA	15VA	20VA	5	5	5
XL7A-500/5A	500A	15VA	20VA	25VA	5	5	5
XL7A-600/5A	600A	15VA	30VA	30VA	5	5	5
XL7A-750/5A	750A	20VA	30VA	35VA	5	5	5
XL7A-800/5A	800A	30VA	30VA	35VA	5	5	5
XL7A-1000/5A	1000A	30VA	45VA	45VA	5	5	5
XL7A-1200/5A	1200A	30VA	45VA	50VA	5	5	5
XL7A-1250/5A	1250A	30VA	45VA	50VA	5	5	5
XL7A-1500/5A	1500A	30VA	45VA	50VA	5	5	5
XL7A-1600/5A	1600A	30VA	45VA	50VA	5	5	5

XL7A



Busbar and Mounting feet fixings are supplied as standard.
DIN Rail Mounting Adapters available - Part Number XL-DRBRK-3

Ebony Excel Current Transformers



XL7B RANGE

Case size: 104 mm wide x 45 mm deep x 126 mm high

Aperture: 81 x 12.5 mm - 61 x 31 mm - 51 x 51 mm - Ø 65 mm

Primary Rating: 200 - 2000A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL7B-200/1A



Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.5	1	3	0.5	1	3
XL7B-200/5A	200A	-	1.5VA	2.5VA	-	5	5
XL7B-250/5A	250A	1.5VA	2.5VA	3.75VA	10	5	5
XL7B-300/5A	300A	2.5VA	7.5VA	7.5VA	10	5	5
XL7B-400/5A	400A	7.5VA	10VA	10VA	5	5	5
XL7B-500/5A	500A	10VA	10VA	10VA	5	5	5
XL7B-600/5A	600A	10VA	12.5VA	12.5VA	5	5	5
XL7B-750/5A	750A	15VA	15VA	15VA	5	5	5
XL7B-800/5A	800A	15VA	15VA	15VA	5	5	5
XL7B-1000/5A	1000A	20VA	30VA	20VA	5	5	5
XL7B-1200/5A	1200A	20VA	30VA	30VA	5	5	5
XL7B-1250/5A	1250A	20VA	30VA	30VA	5	5	5
XL7B-1500/5A	1500A	20VA	30VA	30VA	5	5	5
XL7B-1600/5A	1600A	20VA	30VA	30VA	5	5	5
XL7B-2000/5A	2000A	20VA	30VA	35VA	5	5	5

Busbar and Mounting feet fixings are supplied as standard.

DIN Rail Mounting Adapters available - Part Number XL-DRBRK-2



XL7C RANGE

Case size: 130 mm wide x 51 mm deep x 170 mm high

Aperture: 56 x 101 mm

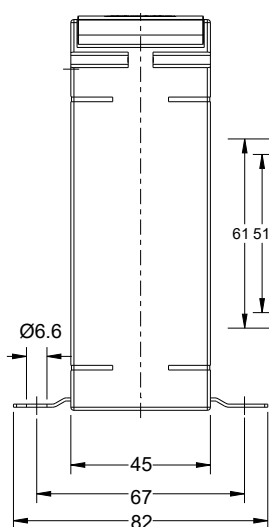
Primary Rating: 600 - 3000A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL7C-600/1A

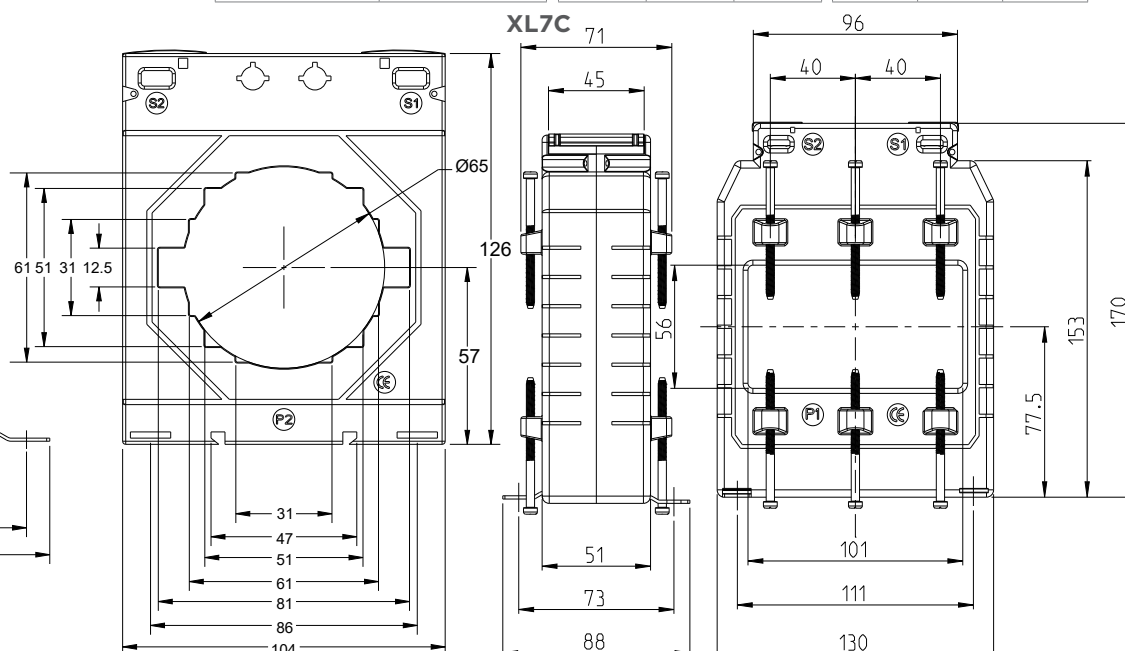


Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.5	1	3	0.5	1	3
XL7C-600/5A	600A	5VA	10VA	10VA	5	5	5
XL7C-750/5A	750A	10VA	10VA	10VA	5	5	5
XL7C-800/5A	800A	10VA	10VA	10VA	5	5	5
XL7C-1000/5A	1000A	15VA	15VA	15VA	5	5	5
XL7C-1200/5A	1200A	15VA	15VA	15VA	5	5	5
XL7C-1250/5A	1250A	15VA	15VA	15VA	5	5	5
XL7C-1500/5A	1500A	15VA	15VA	15VA	5	5	5
XL7C-1600/5A	1600A	15VA	15VA	15VA	5	5	5
XL7C-2000/5A	2000A	15VA	15VA	15VA	5	5	5
XL7C-2500/5A	2500A	15VA	15VA	15VA	10	10	5
XL7C-3000/5A	3000A	15VA	15VA	15VA	10	10	5

XL7B



XL7C



Ebony Excel Current Transformers



XL8A RANGE

Case size: 140 mm wide x 45 mm deep x 155 mm high

Aperture: 81 x 31 mm - 61 x 51 mm - Ø 73 mm

Primary Rating: 200 - 2000A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL8A-200/1A



Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.5	1	3	0.5	1	3
XL8A-200/5A	200A	2.5VA	5VA	7.5VA	10	5	5
XL8A-250/5A	250A	5VA	10VA	12.5VA	5	5	5
XL8A-300/5A	300A	7.5VA	15VA	15VA	5	5	5
XL8A-400/5A	400A	10VA	20VA	25VA	5	5	5
XL8A-500/5A	500A	15VA	30VA	30VA	5	5	5
XL8A-600/5A	600A	15VA	30VA	35VA	5	5	5
XL8A-750/5A	750A	15VA	45VA	45VA	5	5	5
XL8A-800/5A	800A	15VA	45VA	50VA	5	5	5
XL8A-1000/5A	1000A	30VA	60VA	60VA	5	5	5
XL8A-1200/5A	1200A	30VA	60VA	60VA	5	5	5
XL8A-1250/5A	1250A	60VA	60VA	60VA	5	5	5
XL8A-1500/5A	1500A	60VA	60VA	60VA	5	5	5
XL8A-1600/5A	1600A	60VA	60VA	60VA	5	5	5
XL8A-2000/5A	2000A	60VA	60VA	60VA	5	5	5



XL8B RANGE

Case size: 140 mm wide x 45 mm deep x 155 mm high

Aperture: 101 x 31 mm - 81 x 51 mm - 71 x 61 mm - Ø 86 mm

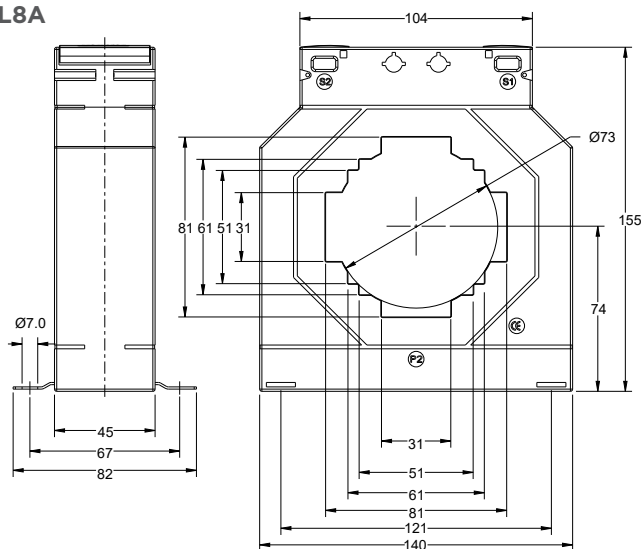
Primary Rating: 200 - 4000A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL8B-200/1A

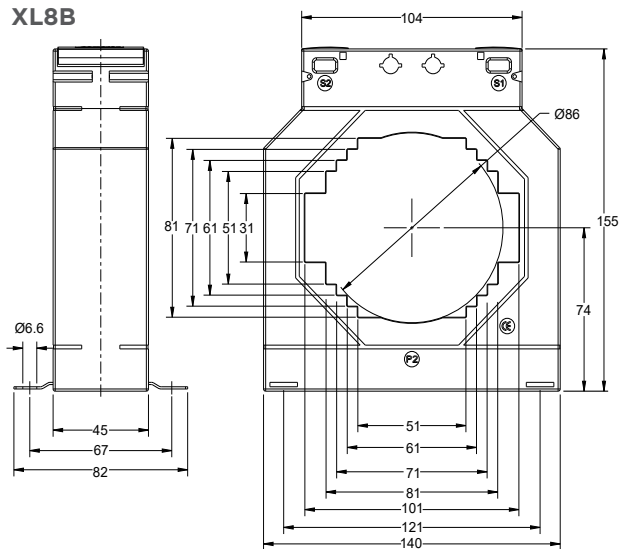


Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.5	1	3	0.5	1	3
XL8B-200/5A	200A	1.5VA	3.75VA	5VA	10	5	5
XL8B-250/5A	250A	2.5VA	5VA	7.5VA	10	5	5
XL8B-300/5A	300A	3.75VA	7.5VA	10VA	10	5	5
XL8B-400/5A	400A	7.5VA	10VA	12.5VA	10	5	5
XL8B-500/5A	500A	10VA	12.5VA	12.5VA	10	5	5
XL8B-600/5A	600A	10VA	15VA	15VA	5	5	5
XL8B-750/5A	750A	15VA	20VA	20VA	5	5	5
XL8B-800/5A	800A	15VA	20VA	25VA	5	5	5
XL8B-1000/5A	1000A	15VA	20VA	25VA	5	5	5
XL8B-1200/5A	1200A	15VA	30VA	30VA	5	5	5
XL8B-1250/5A	1250A	15VA	30VA	35VA	5	5	5
XL8B-1500/5A	1500A	20VA	30VA	40VA	5	5	5
XL8B-1600/5A	1600A	20VA	45VA	45VA	5	5	5
XL8B-2000/5A	2000A	45VA	45VA	45VA	5	5	5
XL8B-2500/5A	2500A	45VA	45VA	45VA	5	5	5
XL8B-3000/5A	3000A	60VA	60VA	60VA	5	5	5
XL8B-4000/5A	4000A	60VA	60VA	60VA	5	5	5

XL8A



XL8B



Ebony Excel Current Transformers



XL8C RANGE

Case size: 140 mm wide x 45 mm deep x 155 mm high

Aperture: 31 x 101 mm - 51 x 81 mm - 61 x 71 mm - Ø 86mm

Primary Rating: 200 - 3000A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL8C-200/1A



Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.5	1	3	0.5	1	3
XL8C-200/5A	200A	1.5VA	3.75VA	5VA	10	5	5
XL8C-250/5A	250A	2.5VA	5VA	5VA	10	5	5
XL8C-300/5A	300A	3.75VA	7.5VA	10VA	10	5	5
XL8C-400/5A	400A	10VA	10VA	12.5VA	10	5	5
XL8C-500/5A	500A	10VA	12.5VA	12.5VA	10	5	5
XL8C-600/5A	600A	12.5VA	15VA	15VA	5	5	5
XL8C-750/5A	750A	15VA	20VA	20VA	5	5	5
XL8C-800/5A	800A	15VA	20VA	20VA	5	5	5
XL8C-1000/5A	1000A	15VA	20VA	20VA	5	5	5
XL8C-1200/5A	1200A	15VA	30VA	30VA	5	5	5
XL8C-1250/5A	1250A	15VA	30VA	30VA	5	5	5
XL8C-1500/5A	1500A	30VA	30VA	35VA	5	5	5
XL8C-1600/5A	1600A	45VA	45VA	45VA	5	5	5
XL8C-2000/5A	2000A	45VA	45VA	45VA	5	5	5
XL8C-2500/5A	2500A	45VA	45VA	45VA	5	5	5
XL8C-3000/5A	3000A	60VA	60VA	60VA	5	5	5



XL9A RANGE

Case size: 140 mm wide x 45 mm deep x 185 mm high

Aperture: 70 x 130 mm

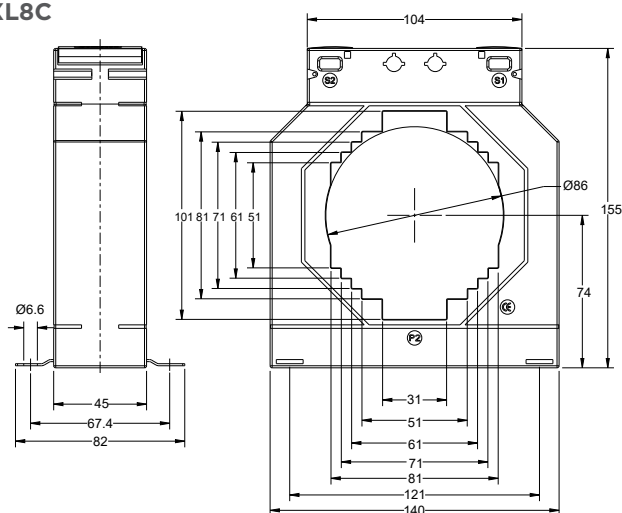
Primary Rating: 400 - 5000A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL9A-400/1A

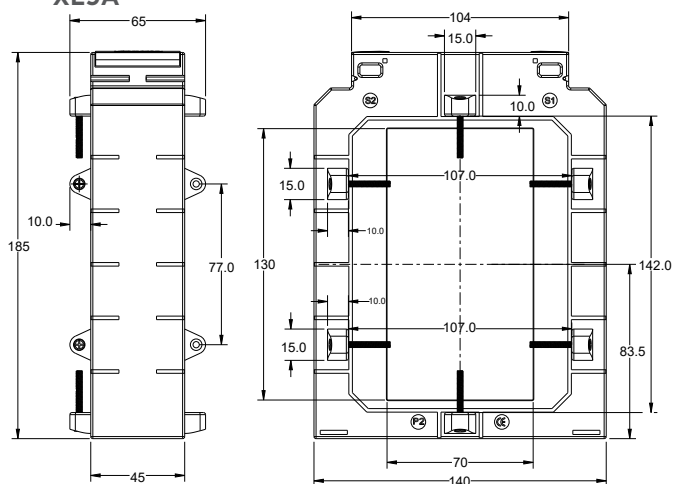


Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.5	1	3	0.5	1	3
XL9A-400/5A	400A	3.75VA	5VA	6.25VA	10	10	10
XL9A-500/5A	500A	3.75VA	5VA	7.5VA	10	10	10
XL9A-600/5A	600A	3.75VA	5VA	7.5VA	10	10	10
XL9A-750/5A	750A	5VA	7.5VA	10VA	10	10	10
XL9A-800/5A	800A	5VA	7.5VA	10VA	10	10	10
XL9A-1000/5A	1000A	10VA	10VA	15VA	10	10	10
XL9A-1200/5A	1200A	10VA	15VA	20VA	10	10	10
XL9A-1250/5A	1250A	10VA	15VA	20VA	10	10	10
XL9A-1500/5A	1500A	15VA	15VA	20VA	10	10	10
XL9A-1600/5A	1600A	15VA	15VA	20VA	10	10	10
XL9A-2000/5A	2000A	20VA	20VA	20VA	10	10	10
XL9A-2500/5A	2500A	20VA	20VA	25VA	10	10	10
XL9A-3000/5A	3000A	20VA	20VA	25VA	10	10	10
XL9A-3200/5A	3200A	20VA	20VA	30VA	10	10	10
XL9A-4000/5A	4000A	20VA	20VA	35VA	10	10	10
XL9A-5000/A	5000A	20VA	20VA	35VA	15	15	15

XL8C



XL9A



Ebony Excel Current Transformers



XL10A RANGE

Case size: 225 mm wide x 50 mm deep x 206 mm high

Aperture: 125 x 93 mm

Primary Rating: 600 - 6000A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL10A-600/1A



Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.5	1	3	0.5	1	3
XL10A-600/5A	600A	5VA	10VA	12.5VA	10	10	10
XL10A-750/5A	750A	10VA	10VA	12.5VA	10	10	10
XL10A-800/5A	800A	10VA	10VA	15VA	10	10	10
XL10A-1000/5A	1000A	10VA	15VA	15VA	10	10	10
XL10A-1200/5A	1200A	10VA	15VA	20VA	10	10	10
XL10A-1250/5A	1250A	10VA	15VA	20VA	10	10	10
XL10A-1500/5A	1500A	15VA	30VA	30VA	10	5	5
XL10A-1600/5A	1600A	15VA	30VA	35VA	10	5	5
XL10A-2000/5A	2000A	15VA	30VA	35VA	10	5	5
XL10A-2500/5A	2500A	30VA	30VA	45VA	10	5	5
XL10A-3000/5A	3000A	30VA	60VA	60VA	10	5	5
XL10A-4000/5A	4000A	45VA	60VA	60VA	10	5	5
XL10A-5000/5A	5000A	100VA	100VA	100VA	5	5	5
XL10A-6000/5A	6000A	100VA	100VA	100VA	5	5	5



XL10B RANGE

Case size: 225 mm wide x 50 mm deep x 206 mm high

Aperture: 167 x 66 mm

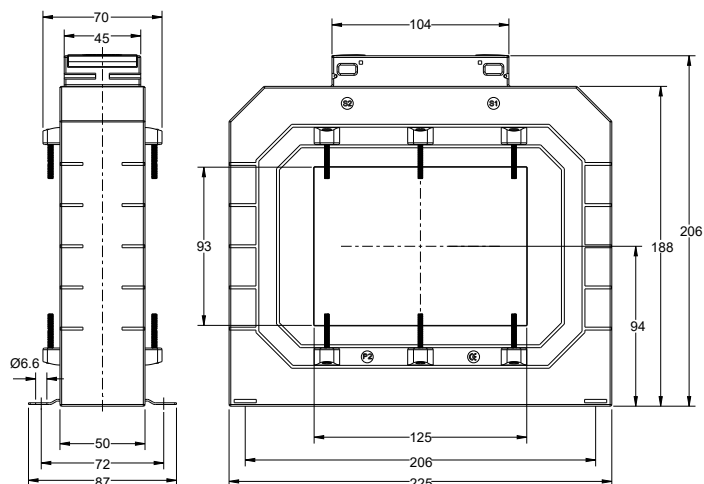
Primary Rating: 1000 - 7500A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL10B-1000/1A

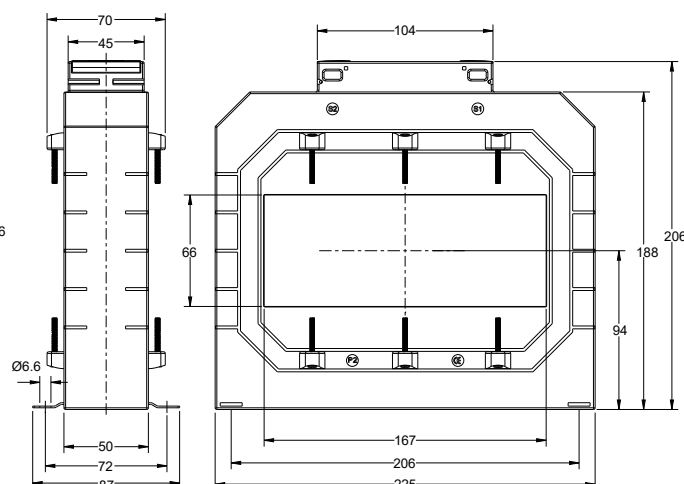


Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.5	1	3	0.5	1	3
XL10B-1000/5A	1000A	5VA	10VA	15VA	10	10	10
XL10B-1200/5A	1200A	10VA	15VA	20VA	10	10	10
XL10B-1250/5A	1250A	10VA	15VA	20VA	10	10	10
XL10B-1500/5A	1500A	15VA	30VA	30VA	10	5	5
XL10B-1600/5A	1600A	15VA	30VA	35VA	10	5	5
XL10B-2000/5A	2000A	30VA	30VA	35VA	10	5	5
XL10B-2500/5A	2500A	30VA	45VA	45VA	10	5	5
XL10B-3000/5A	3000A	30VA	45VA	50VA	10	5	5
XL10B-4000/5A	4000A	30VA	45VA	50VA	10	10	10
XL10B-5000/5A	5000A	30VA	45VA	50VA	10	10	10
XL10B-6000/5A	6000A	30VA	45VA	50VA	10	10	10
XL10B-7500/5A	7500A	30VA	45VA	50VA	10	10	10

XL10A



XL10B



Ebony Excel Current Transformers

	XL0 model		XL1 model		XL2 model					
	XL0A	XL0B	XL1A	XL1B	XL2A	XL2B	XL2C	XL2D	XL2E	XL2F
Inside Dia Ø (mm)	-	-	14	21	14	21	26	14	21	26
Busbars (mm)	-	-	-	-	-	-	30 X 10	-	-	30 X 10
	-	-	-	20 X 10	-	20 X 10	25 X 15	-	20X 10	25 X 15
Height (mm)	78	98	65	65	70	70	70	70	70	70
Width (mm)	62	74	45	45	50	50	50	50	50	51
Depth (mm)	40	45	40	40	31	31	31	51	51	52
DIN rail mounting adapter (available seperately)	✓	✓	✓	✓	✓	✓	✓	-	-	-
Panel or Wall Mounting	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Busbar Mounting	-	-	✓	✓	✓	✓	✓	✓	✓	✓
Terminal Cover	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Primary Current	1A→30A	1A→60A	30A→300A	50A→400A	40A→300A	20A→400A	20A→600A	30A→300A	50A→400A	50A→600A
Max screw torque setting	75	75	75	75	75	75	75	75	75	75
UL Approved	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

	XL3 model					XL4 model			
	XL3A	XL3B	XL3C	XL3D	XL3E	XL4A	XL4B	XL4C	XL4D
Inside Dia Ø (mm)	22.5	-	30.5	31	28	20.4	26	35	41
Busbars (mm)	-	-	-	-	-	-	-	-	50 X 12.5
	-	20 X 10	30 X 10	40 X 10	-	15 x 15	30 X 15	40 X 10	40 X 20
	-	15 X 15	25 X 25	30 X 20	30 X 10	20 X 10	20 X 20	30 X 30	30 X 30
Height (mm)	78	78	78	78	78	98	98	98	98
Width (mm)	62	62	62	62	62	74	74	74	74
Depth (mm)	40	40	40	40	51	45	45	45	45
DIN rail mounting adapter (available seperately)	✓	✓	✓	✓	✓	✓	✓	✓	✓
Panel or Wall Mounting	✓	✓	✓	✓	✓	✓	✓	✓	✓
Busbar Mounting	-	✓	✓	✓	✓	✓	✓	✓	✓
Terminal Cover	✓	✓	✓	✓	✓	✓	✓	✓	✓
Primary Current	50A→600A	50A→500A	50A→800A	40A→800A	40A→800A	40A→500A	40A→800A	40A→1000A	100A→1000A
Max screw torque setting	75	75	75	75	75	75	75	75	75
UL Approved	Y	Y	Y	Y	Y	Y	Y	Y	Y

Ebony Excel Current Transformers

	XL5 model			XL6 model		XL7 model		XL7C
	XL5A	XL5B	XL5C	XL6A	XL6B	XL7A	XL7B	
Inside Dia Ø (mm)	36	46	51	-	-	54	65	-
Busbars (mm)	-	-	-	-	-	60 X 10	80 X 10	101 X 56
	40 X 10	50 X 10	60 X 10	40 X 100	40 X 125	50 X 30	60 X 30	-
	30 X 30	40 X 30	50 X 30	-	-	40 X 40	50 X 50	-
Height (mm)	110	110	110	170	170	126	126	170
Width (mm)	86	86	86	99	99	104	104	130
Depth (mm)	45	45	45	45	45	45	45	51
DIN rail mounting adapter (available seperately)	✓	✓	✓	-	-	✓	✓	-
Panel or Wall Mounting	✓	✓	✓	✓	✓	✓	✓	✓
Busbar Mounting	✓	✓	✓	✓	✓	✓	✓	✓
Terminal Cover	✓	✓	✓	✓	✓	✓	✓	✓
Primary Current	50A→1000A	100A→1250A	100A→1600A	400A→2500A	400A→3200A	100A→1600A	200A→2000A	600→3000
Max screw torque setting	75	75	75	75	75	75	75	75
UL Approved	Y	Y	Y	Y	Y	Y	Y	Y

	XL8 model			XL9 model	XL10 model	
	XL8A	XL8B	XL8C	XL9A	XL10A	XL10B
Inside Dia Ø (mm)	73	86	86	-	-	-
Busbars (mm)	-	100 X 30	30 X 100	-	-	-
	80 X 30	80 X 50	50 X 80	70 X 130	125 X 90	167 X 66
	60 X 50	70 X 60	60 X 70	-	-	-
Height (mm)	155	155	155	185	206	206
Width (mm)	140	140	140	140	225	225
Depth (mm)	45	45	45	45	50	50
DIN rail mounting adapter (available seperately)	-	-	-	-	-	-
Panel or Wall Mounting	✓	✓	✓	✓	✓	✓
Busbar Mounting	✓	✓	✓	✓	✓	✓
Terminal Cover	✓	✓	✓	✓	✓	✓
Primary Current	200A→2000A	200A→4000A	200A→3000A	400A→5000A	600A→6000A	1000A→7500A
Max screw torque setting	75	75	75	75	75	75
UL Approved	Y	Y	Y	Y	Y	Y

Ebony Excel Current Transformers

Accessories

Busbar Mounting Kits are supplied as standard with each Current Transformer.

The kit contains a selection of the below items based on what is required for each individual Current Transformer.

Busbar Mounting Kit Items			
M4 Busbar mounting Screws		Swivels	
Push in metal feet		Shoe for M4 Busbar mounting Screws	

Extra Busbar Mounting Kits are available to order, please see the below table

Current Transformer Model Type	Mounting Kit Order Code	Items in each Mounting Kit
XL0A, XL0B, XL1A, XL1B	XL-KIT-001	2 x Push in metal feet
XL2A, XL2B, XL2C, XL2D, XL2E, XL2F	XL-KIT-002	2 x Busbar mounting screws M4 x 35mm 2 x Push in metal feet 2 x Swivels 2 x Shoe for self tapping M4 screws
XL3A, XL3B, XL3C, XL3D, XL3E XL4A, XL4B, XL4C, XL4D XL5A, XL5B, XL5C	XL-KIT-003	2 x Busbar mounting screws M4 x 45mm 2 x Push in metal feet 2 x Swivels 2 x Shoe for self tapping M4 screws
XL6A, XL6B	XL-KIT-004	2 x Busbar mounting screws M4 x 35mm 2 x Push in metal feet 2 x Shoe for self tapping M4 screws
XL7A, XL7B, XL7C	XL-KIT-005	4 x Busbar mounting screws M4 x 45mm 2 x Push in metal feet 2 x Swivels 4 x Shoe for self tapping M4 screws
XL8A, XL8B, XL8C	XL-KIT-006	4 x Busbar mounting screws M4 x 75mm 2 x Push in metal feet 4 x Swivels 4 x Shoe for self tapping M4 screws
XL9A	XL-KIT-007	1 x Busbar mounting screw M4 x 75mm 5 x Busbar mounting screws M4 x 45mm 2 x Push in metal feet 6 x Shoe for self tapping M4 screws
XL10A, XL10B	XL-KIT-008	6 x Busbar mounting screws M4 x 75mm 2 x Push in metal feet 6 x Shoe for self tapping M4 screws

DIN Rail Mounting Adapters (available separately)

Current Transformer Model Type	Order Code	
XL1A, XL1B	XL-DRBRK-1	
XL2A, XL2B, XL2C	XL-DRBRK-2	
XL3A, XL3B, XL3C, XL3D, XL3E XL4A, XL4B, XL4C, XL4D, XL5A, XL5B, XL5C XL7A, XL7B, XL7C	XL-DRBRK-3	

Ebony Excel Current Transformers

Accuracy Class:- A designation assigned to a current transformer the errors of which remain within specified limit under prescribed conditions of use.

Rated Burden:- The impedance of the secondary circuit on which the accuracy requirements are based. It is usually expressed as apparent power (in VA), at the rated secondary current and at a specified power factor.

Rated Output:- The value of the apparent power (in volt-amperes at a specified power factor) which the current transformer is intended to supply to the secondary circuit at the rated secondary current and with rated burden connected to it.

Highest System Voltage:- The highest rms line to line voltage which can be sustained under normal operating conditions at any time and at any point on the system. It excludes temporary voltage variations due to fault condition and the sudden disconnection of large loads.

Rated Insulation Level:- That combination of voltage values (power frequency and lightning impulse, or where applicable, lightning and switching impulse) which characterizes the insulation of a transformer with regard to its capability to withstand by dielectric stresses. For low voltage transformer the test voltage 4kV, at power-frequency, applied during 1 minute.

Rated Short Time Thermal Current (I_{th}):- The RMS value of the primary current which the current transformer will withstand for a rated time, with their secondary winding short circuits without suffering harmful effects.

Rated Dynamic Current (I_{dyn}):- The peak value of the primary current which a current transformer will withstand, without being damaged electrically for mechanically by the resulting electromagnetic forces, the secondary winding being short-circuited.

Rated Continuous Thermal Current:- The value of current which can be permitted to flow continuously in the primary winding, the secondary windings being connected to the rated burdens, without the temperature rise exceeding the specified values.

Instrument Security Factor (ISF):- Instrument Security Factor is the ratio of Instrument Limit Primary Current to the rated Primary Current. Instrument Limit Current of a metering Current Transformer is the maximum value of primary current beyond which Current Transformer core becomes saturated. Instrument Security Factor of CT is the significant factor for choosing the metering Instruments which to be connected to the secondary of the CT. Security or Safety of the measuring unit is better, if ISF is low.

Ebony Excel⁺ Current Transformers



FEATURES

- CT ratios from 1A to 6000A with 5A and 1A secondary's
- Comprehensive range of class accuracy's
- Cost effective moulded case
- Wide range of system current ratings, busbar sizes, case dimensions and apertures
- Wall, cable, busbar and DIN rail mounting
- Hinged terminal covers



BENEFITS

- Wide range of apertures and case sizes
- Reduction of high currents for ease of metering
- Long product life

APPROVALS

- IEC 61869-2
- BS3938
- UL Recognised File No. E104604



EBONY EXCEL⁺ RANGE

TE's Crompton Instruments **Ebony Excel⁺** and **Ebony Excel** range of Current Transformers offer wide system current ratings, apertures, busbar and case sizes to suit every application. Manufactured to meet IEC61869-2, the range benefits include ratio rating from 1/5 to 6000/5, a comprehensive range of class accuracies, hinged wire sealable terminal covers for safety and multiple mounting options.

CONSTRUCTION

The toroidal core and secondary winding is encapsulated with UL94V-0 approved polycarbonate, in moulded case providing excellent mechanical strength and electrical insulation.

INSTALLATION OPTIONS

- Plug-in metal feet for wall or base mounting
- Moulded busbar mounting
- Primary copper busbar mounting
- Multi busbar mounting for two busbars
- Plastic DIN-rail adaptor for DIN-rail mounting (available as an option)

SPECIFICATION

Applicable Standards	IEC 61869-2, BS3839, UL recognised
Applicable Standards	10% glass filled polycarbonate Flame retardant grades classified UL94V-0
Connection	Two connections each side. M4 screws with self lifting clamp assembly
Insulation Class	E (120°C Maximum)
System Voltage	720V maximum
Test Voltage	4KV 50Hz for 1 min (Except for XL2 model where test voltage is 3KV 50Hz for 1 min)
Operating Frequency	50Hz or 60Hz
Rated secondary output	5A standard (1A on request)
Rated burden	1, 1.25, 1.5, 2.5, 3.75, 5, 7.5, 10, 12.5, 15, 20, 30, 45, 60, 100VA
Class of accuracy	0.2, 0.2S & 0.5S
Ambient temperature	-20°C...+45°C
Storage temperature	-50°C...+80°C
Thermal short circuit current (I _{th})	60 x I _n
Dynamic short circuit current (I _{dyn})	2.5 x I _{th}
Instrument security factor	5, 10, 15
Rated continuous thermal current	1.2 x I _n
Degree of protection	IP20

ACCURACY CLASSES

The **Ebony Excel⁺** range has class accuracies of 0.2, 0.2S and 0.5S.

APPLICATION NOTE:

In some cases, where CT model is marked with (*), to achieve class accuracy at low currents between 20A-40A, additional primary turns are required to achieve the required output. As such, these models are only suitable for cable conductors.

Ebony Excel+ Current Transformers



XLOA+ RANGE

Case size: 62 mm wide x 40 mm deep x 78 mm high

Primary Rating: 1 - 30A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XLOA-1/1A-0.2



Part number	Primary current	Accuracy	Security Factor (ISF)
		0.2	0.2
XLOA-1/5A-0.2	1A	1VA	15
XLOA-2.5/5A-0.2	2.5A	1VA	15
XLOA-5/5A-0.2	5A	1VA	15
XLOA-7.5/5A-0.2	7.5A	1VA	15
XLOA-10/5A-0.2	10A	1VA	15
XLOA-15/5A-0.2	15A	1VA	15
XLOA-20/5A-0.2	20A	1VA	15
XLOA-25/5A-0.2	25A	1VA	15
XLOA-30/5A-0.2	30A	1VA	15



XLOB+ RANGE

Case size: 74 mm wide x 45 mm deep x 98 mm high

Primary Rating: 1 - 60A

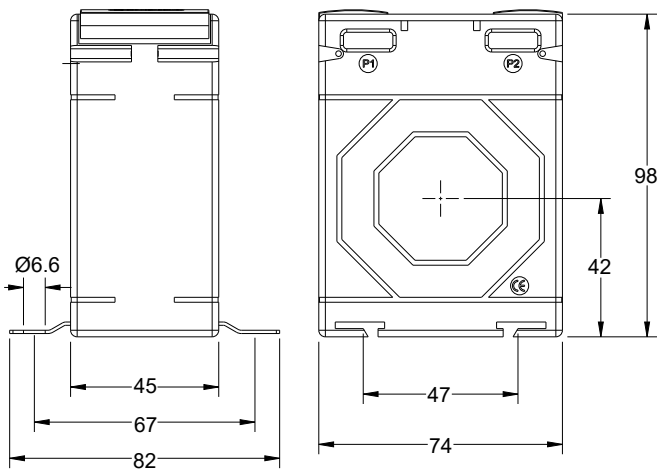
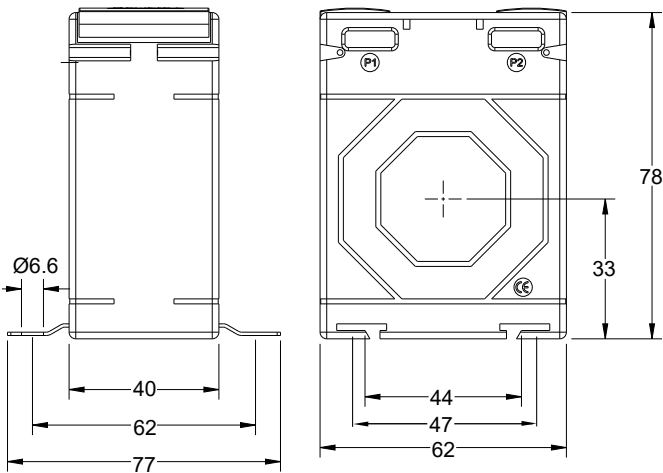
Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XLOB-1/1A-0.2



Part number	Primary current	Accuracy	Security Factor (ISF)
		0.2	0.2
XLOB-1/5A-0.2	1A	1.5VA	15
XLOB-2.5/5A-0.2	2.5A	1.5VA	15
XLOB-5/5A-0.2	5A	1.5VA	15
XLOB-7.5/5A-0.2	7.5A	1.5VA	15
XLOB-10/5A-0.2	10A	1.5VA	15
XLOB-15/5A-0.2	15A	1.5VA	15
XLOB-20/5A-0.2	20A	1.5VA	15
XLOB-25/5A-0.2	25A	1.5VA	15
XLOB-30/5A-0.2	30A	1.5VA	15
XLOB-40/5A-0.2	40A	1.5VA	15
XLOB-50/5A-0.2	50A	1.5VA	15
XLOB-60/5A-0.2	60A	1.5VA	15

XLOA

XLOB



Ebony Excel⁺ Current Transformers



XL3A⁺ RANGE

Case size: 62 mm wide x 40 mm deep x 78 mm high

Aperture: Ø 22.5 mm

Primary Rating: 100 - 600A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL3A-100/1A-0.2



Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.2	0.2S	0.5S	0.2	0.2S	0.5S
XL3A-100/5A-**-	100A	1.5VA	-	-	10	-	-
XL3A-120/5A-**-	120A	1.5VA	-	-	10	-	-
XL3A-125/5A-**-	125A	1.5VA	-	-	10	-	-
XL3A-150/5A-**-	150A	2.5VA	2.5VA	2.5VA	10	5	5
XL3A-200/5A-**-	200A	5VA	5VA	5VA	5	5	5
XL3A-250/5A-**-	250A	5VA	5VA	5VA	5	5	5
XL3A-300/5A-**-	300A	5VA	5VA	5VA	5	5	5
XL3A-400/5A-**-	400A	10VA	5VA	5VA	5	5	5
XL3A-500/5A-**-	500A	10VA	-	-	5	-	-
XL3A-600/5A-**-	600A	10VA	-	-	5	-	-

Replace ** with required class accuracy



XL3B⁺ RANGE

Case size: 62 mm wide x 40 mm deep x 78 mm high

Aperture: 20.5 x 12.5 mm - 15.5 x 15.5 mm

Primary Rating: 100 - 500A

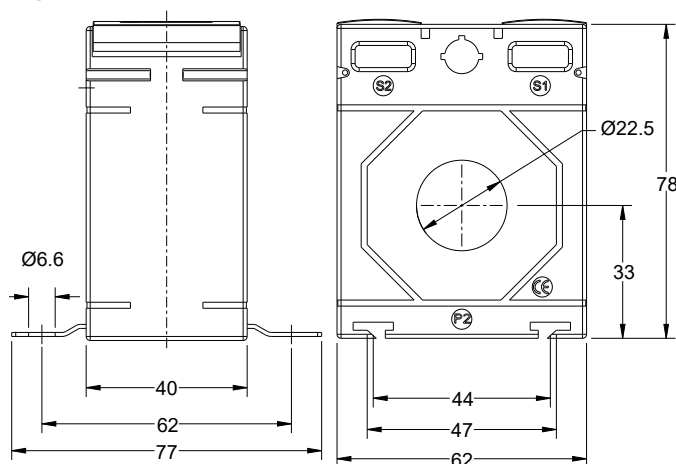
Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL3B-100/1A-0.2



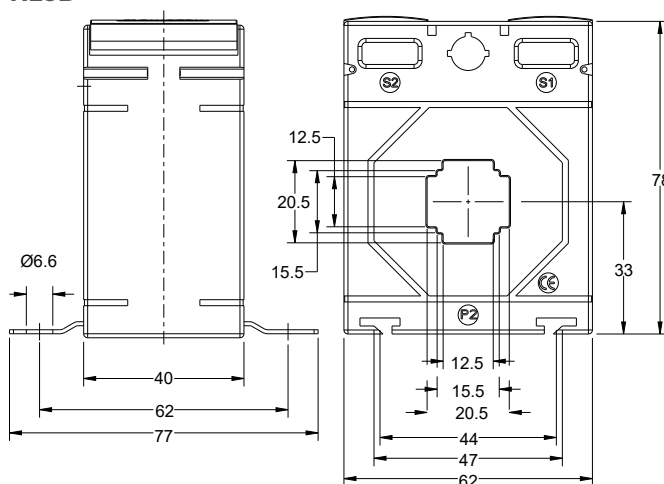
Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.2	0.2S	0.5S	0.2	0.2S	0.5S
XL3B-100/5A-**-	100A	1.5VA	1.5VA	1.5VA	10	5	5
XL3B-120/5A-**-	120A	1.5VA	1.5VA	1.5VA	10	5	5
XL3B-125/5A-**-	125A	1.5VA	1.5VA	1.5VA	10	5	5
XL3B-150/5A-**-	150A	2.5VA	2VA	2VA	10	5	5
XL3B-200/5A-**-	200A	5VA	3.75VA	3.75VA	5	5	5
XL3B-250/5A-**-	250A	5VA	3.75VA	3.75VA	5	5	5
XL3B-300/5A-**-	300A	10VA	3.75VA	3.75VA	5	5	5
XL3B-400/5A-**-	400A	10VA	5VA	5VA	5	5	5
XL3B-500/5A-**-	500A	10VA	5VA	5VA	5	5	5

Replace ** with required class accuracy

XL3A



XL3B



Busbar and Mounting feet fixings are supplied as standard.
DIN Rail Mounting Adapters available - Part Number XL-DRBRK-3

Ebony Excel⁺ Current Transformers



XL3C⁺ RANGE

Case size: 62 mm wide x 40 mm deep x 78 mm high

Aperture: 31 x 11 mm - 26 x 21 mm - Ø 30.5 mm

Primary Rating: 100 - 800

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL3C-100/1A-0.2



Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.2	0.2S	0.5S	0.2	0.2S	0.5S
XL3C-100/5A-*	100A	1VA	1VA	1VA	10	5	5
XL3C-120/5A-*	120A	1VA	1VA	1VA	10	5	5
XL3C-125/5A-*	125A	1VA	1VA	1VA	10	5	5
XL3C-150/5A-*	150A	1.5VA	2.5VA	2.5VA	10	5	5
XL3C-200/5A-*	200A	3.75VA	5VA	5VA	10	5	5
XL3C-250/5A-*	250A	5VA	5VA	5VA	10	5	5
XL3C-300/5A-*	300A	3.75VA	5VA	5VA	10	5	5
XL3C-400/5A-*	400A	10VA	5VA	5VA	10	5	5
XL3C-500/5A-*	500A	10VA	5VA	5VA	5	10	10
XL3C-600/5A-*	600A	10VA	7.5VA	7.5VA	5	10	10
XL3C-750/5A-*	750A	10VA	10VA	10VA	5	10	10
XL3C-800/5A-*	800A	10VA	10VA	10VA	5	10	10

Replace * with required class accuracy



XL3D⁺ RANGE

Case size: 62 mm wide x 40 mm deep x 78 mm high

Aperture: 40.5 x 11 mm - 31 x 21 mm - Ø 31 mm

Primary Rating: 200 - 800A

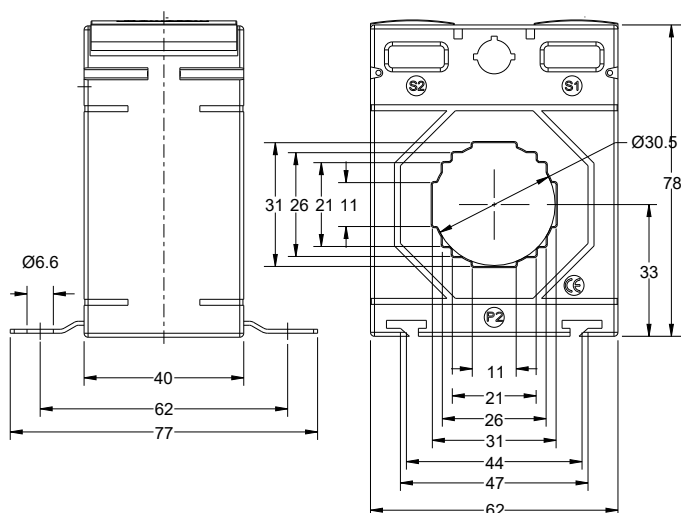
Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL3D-200/1A-0.2



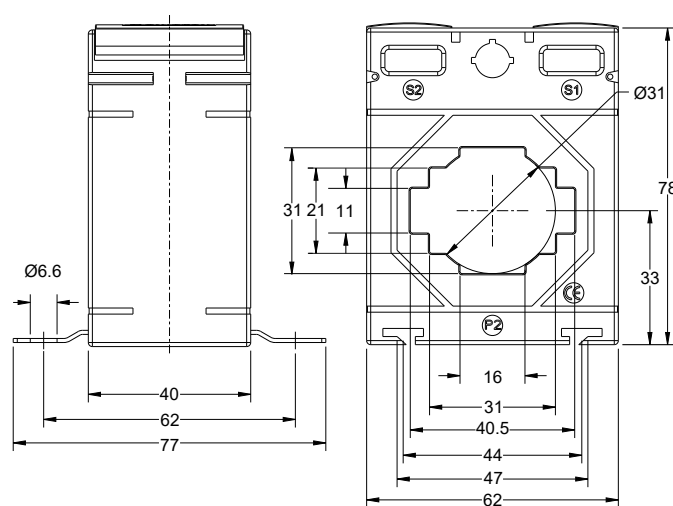
Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.2	0.2S	0.5S	0.2	0.2S	0.5S
XL3D-200/5A-*	200A	1VA	1VA	1VA	10	5	5
XL3D-250/5A-*	250A	1.5VA	1.5VA	1.5VA	10	5	5
XL3D-300/5A-*	300A	1.5VA	1.5VA	1.5VA	10	5	5
XL3D-400/5A-*	400A	2.5VA	2.5VA	2.5VA	10	5	5
XL3D-500/5A-*	500A	5VA	2.5VA	2.5VA	5	5	5
XL3D-600/5A-*	600A	7.5VA	2.5VA	2.5VA	5	5	5
XL3D-750/5A-*	750A	10VA	5VA	5VA	5	5	5
XL3D-800/5A-*	800A	10VA	5VA	5VA	5	5	5

Replace * with required class accuracy

XL3C



XL3D



Busbar and Mounting feet fixings are supplied as standard.
DIN Rail Mounting Adapters available - Part Number XL-DRBRK-3

Ebony Excel⁺ Current Transformers



XL3E⁺ RANGE

Case size: 62 mm wide x 51 mm deep x 78 mm high

Aperture: 30.5 x 10.5 mm - Ø 28 mm

Primary Rating: 100 - 800A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL3E-100/1A-0.2



Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.2	0.2S	0.5S	0.2	0.2S	0.5S
XL3E-100/5A-**-	100A	1.25VA	1.25VA	1.25VA	15	5	5
XL3E-120/5A-**-	120A	1.25VA	1.25VA	1.25VA	15	5	5
XL3E-125/5A-**-	125A	1.25VA	1.25VA	1.25VA	15	5	5
XL3E-150/5A-**-	150A	2VA	2VA	2VA	10	5	5
XL3E-200/5A-**-	200A	3.75VA	5VA	5VA	10	5	5
XL3E-250/5A-**-	250A	5VA	5VA	5VA	10	5	5
XL3E-300/5A-**-	300A	5VA	5VA	5VA	10	5	5
XL3E-400/5A-**-	400A	6.25VA	10VA	10VA	10	5	5
XL3E-500/5A-**-	500A	7.5VA	5VA	5VA	10	10	10
XL3E-600/5A-**-	600A	10VA	6.25VA	6.25VA	10	10	10
XL3E-750/5A-**-	750A	10VA	6.25VA	6.25VA	10	10	10
XL3E-800/5A-**-	800A	10VA	6.25VA	6.25VA	10	10	10

Replace ** with required class accuracy



XL4A⁺ RANGE

Case size: 74 mm wide x 45 mm deep x 98 mm high

Aperture: 21 x 11 mm - 15.5 X 15.5 mm- Ø 20.4 mm

Primary Rating: 100 - 500A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL4A-100/1A-0.2

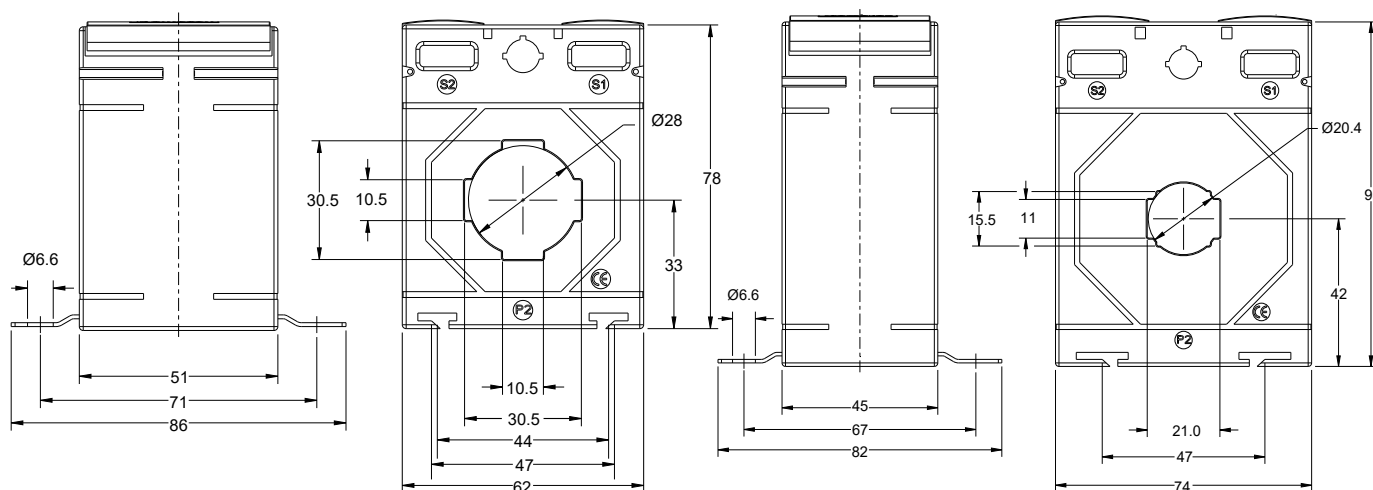


Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.2	0.2S	0.5S	0.2	0.2S	0.5S
XL4A-100/5A-**-	100A	1.5VA	1.5VA	1.5VA	15	5	5
XL4A-120/5A-**-	120A	1.5VA	1.5VA	1.5VA	15	5	5
XL4A-125/5A-**-	125A	1.5VA	1.5VA	1.5VA	15	5	5
XL4A-150/5A-**-	150A	2.5VA	2.5VA	2.5VA	15	5	5
XL4A-200/5A-**-	200A	5VA	5VA	5VA	10	5	5
XL4A-250/5A-**-	250A	5VA	5VA	5VA	10	5	5
XL4A-300/5A-**-	300A	7.5VA	5VA	5VA	10	5	5
XL4A-400/5A-**-	400A	10VA	5VA	5VA	10	5	5
XL4A-500/5A-**-	500A	10VA	5VA	5VA	10	5	5

Replace ** with required class accuracy

XL3E

XL4A



Ebony Excel⁺ Current Transformers



XL4B⁺ RANGE

Case size: 74 mm wide x 45 mm deep x 98 mm high

Aperture: 31 x 15 mm - 21 x 21 mm - Ø 26 mm

Primary Rating: 100 - 800A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL4B-100/1A-0.2



Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.2	0.2S	0.5S	0.2	0.2S	0.5S
XL4B-100/5A-**-	100A	1.5VA	1.5VA	1.5VA	15	5	5
XL4B-120/5A-**-	120A	1.5VA	1.5VA	1.5VA	15	5	5
XL4B-125/5A-**-	125A	1.5VA	1.5VA	1.5VA	15	5	5
XL4B-150/5A-**-	150A	1.5VA	1.5VA	1.5VA	15	5	5
XL4B-200/5A-**-	200A	2.5VA	2.5VA	2.5VA	15	5	5
XL4B-250/5A-**-	250A	2.5VA	2.5VA	2.5VA	10	5	5
XL4B-300/5A-**-	300A	5VA	2.5VA	2.5VA	10	10	10
XL4B-400/5A-**-	400A	7.5VA	5VA	5VA	10	10	10
XL4B-500/5A-**-	500A	10VA	5VA	5VA	10	10	10
XL4B-600/5A-**-	600A	15VA	5VA	5VA	10	10	10
XL4B-750/5A-**-	750A	20VA	7.5VA	7.5VA	10	10	10
XL4B-800/5A-**-	800A	30VA	10VA	10VA	10	10	10

Replace ** with required class accuracy



XL4C⁺ RANGE

Case size: 74 mm wide x 45 mm deep x 98 mm high

Aperture: 41 x 12.5 mm - 31 x 31 mm - Ø 35 mm

Primary Rating: 100 - 1000A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL4C-100/1A-0.2S

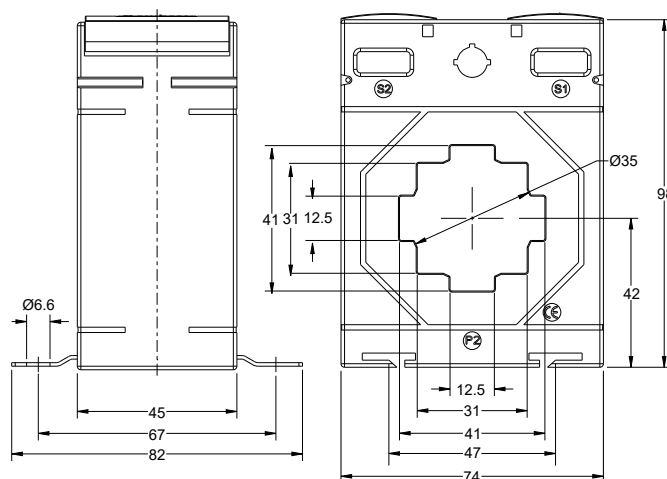
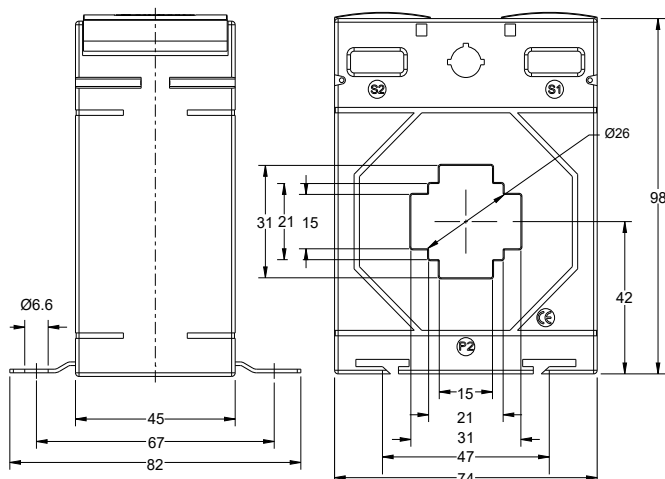


Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.2	0.2S	0.5S	0.2	0.2S	0.5S
XL4C-100/5A-**-	100A	-	1VA	1VA	-	5	5
XL4C-120/5A-**-	120A	-	1VA	1VA	-	5	5
XL4C-125/5A-**-	125A	-	1VA	1VA	-	5	5
XL4C-150/5A-**-	150A	-	1.5VA	1.5VA	-	5	5
XL4C-200/5A-**-	200A	2.5VA	2.5VA	2.5VA	10	5	5
XL4C-250/5A-**-	250A	3.75VA	5VA	5VA	10	5	5
XL4C-300/5A-**-	300A	5VA	5VA	5VA	5	5	5
XL4C-400/5A-**-	400A	10VA	5VA	5VA	5	5	5
XL4C-500/5A-**-	500A	10VA	5VA	5VA	5	5	5
XL4C-600/5A-**-	600A	15VA	5VA	5VA	5	10	10
XL4C-750/5A-**-	750A	15VA	5VA	5VA	5	10	10
XL4C-800/5A-**-	800A	15VA	7.5VA	7.5VA	5	5	5
XL4C-1000/5A-**-	1000A	15VA	10VA	10VA	5	5	5

Replace ** with required class accuracy

XL4B

XL4C



Ebony Excel⁺ Current Transformers



XL4D⁺ RANGE

Case size: 74 mm wide x 45 mm deep x 98 mm high

Aperture: 51 x 12.5 mm - 41 x 21 mm - 31 x 31 mm - Ø 41 mm

Primary Rating: 250 - 1000A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL4D-250/1A-0.2



Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.2	0.2S	0.5S	0.2	0.2S	0.5S
XL4D-250/5A-**-	250A	1.5VA	1.5VA	1.5VA	10	5	5
XL4D-300/5A-**-	300A	1.5VA	1.5VA	1.5VA	10	5	5
XL4D-400/5A-**-	400A	2.5VA	2.5VA	2.5VA	5	5	5
XL4D-500/5A-**-	500A	5VA	5VA	5VA	5	5	5
XL4D-600/5A-**-	600A	7.5VA	5VA	5VA	5	5	5
XL4D-750/5A-**-	750A	10VA	5VA	5VA	5	5	5
XL4D-800/5A-**-	800A	10VA	5VA	5VA	5	5	5
XL4D-1000/5A-**-	1000A	10VA	5VA	5VA	5	5	5

Replace ** with required class accuracy



XL5A⁺ RANGE

Case size: 86 mm wide x 45 mm deep x 110 mm high

Aperture: 41 x 11 mm - 31 x 31 mm - Ø 36 mm diameter

Primary Rating: 100 - 1000A

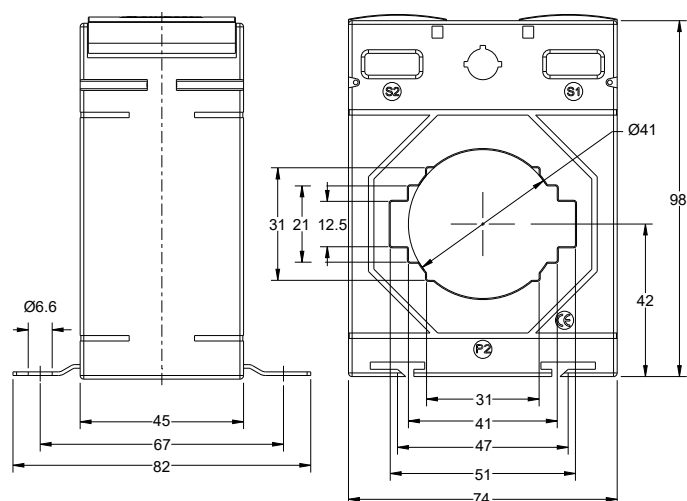
Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL5A-100/1A-0.2



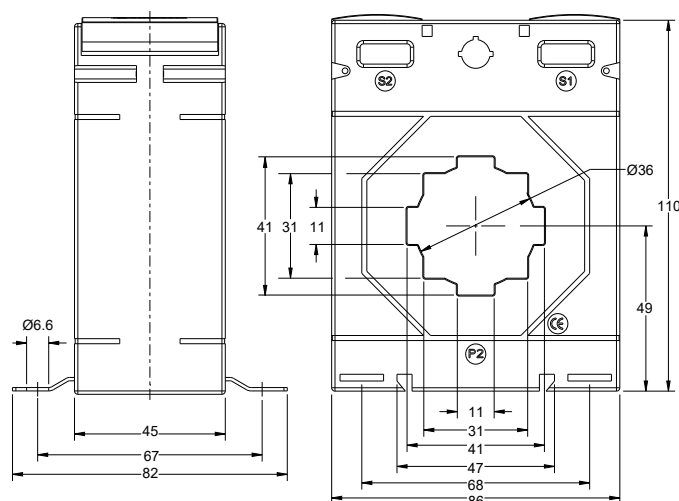
Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.2	0.2S	0.5S	0.2	0.2S	0.5S
XL5A-100/5A-**-	100A	1.5VA	1.5VA	1.5VA	10	5	5
XL5A-120/5A-**-	120A	1.5VA	1.5VA	1.5VA	10	5	5
XL5A-125/5A-**-	125A	1.5VA	1.5VA	1.5VA	10	5	5
XL5A-150/5A-**-	150A	2.5VA	2.5VA	2.5VA	10	5	5
XL5A-200/5A-**-	200A	2.5VA	5VA	5VA	10	5	5
XL5A-250/5A-**-	250A	5VA	10VA	10VA	10	5	5
XL5A-300/5A-**-	300A	10VA	10VA	10VA	10	5	5
XL5A-400/5A-**-	400A	15VA	10VA	10VA	10	15	15
XL5A-500/5A-**-	500A	15VA	5VA	5VA	5	15	15
XL5A-600/5A-**-	600A	15VA	7.5VA	7.5VA	5	10	10
XL5A-750/5A-**-	750A	15VA	7.5VA	7.5VA	5	10	10
XL5A-800/5A-**-	800A	15VA	10VA	10VA	5	10	10
XL5A-1000/5A-**-	1000A	15VA	10VA	10VA	5	10	10

Replace ** with required class accuracy

XL4D



XL5A



Ebony Excel⁺ Current Transformers



XL5B⁺ RANGE

Case size: 86 mm wide x 45 mm deep x 110 mm high

Aperture: 51 x 12.5 mm - 41 x 31 mm - Ø 46 mm

Primary Rating: 200 - 1250A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL5B-200/1A-0.2



Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.2	0.2S	0.5S	0.2	0.2S	0.5S
XL5B-200/5A-**-	200A	-	2.5VA	2.5VA	-	5	5
XL5B-250/5A-**-	250A	-	2.5VA	2.5VA	-	5	5
XL5B-300/5A-**-	300A	3.75VA	5VA	5VA	10	5	5
XL5B-400/5A-**-	400A	10VA	7.5VA	7.5VA	10	5	5
XL5B-500/5A-**-	500A	10VA	7.5VA	7.5VA	10	5	5
XL5B-600/5A-**-	600A	15VA	10VA	10VA	10	5	5
XL5B-750/5A-**-	750A	15VA	7.5VA	7.5VA	10	10	10
XL5B-800/5A-**-	800A	12.5VA	10VA	10VA	5	10	10
XL5B-1000/5A-**-	1000A	20VA	10VA	10VA	5	5	5
XL5B-1200/5A-**-	1200A	20VA	10VA	10VA	5	5	5
XL5B-1250/5A-**-	1250A	20VA	10VA	10VA	5	5	5

Replace ** with required class accuracy



XL5C⁺ RANGE

Case size: 86 mm wide x 45 mm deep x 110 mm high

Aperture: 61 x 12.5 mm - 51 x 31 mm - Ø 51 mm

Primary Rating: 300 - 1600A

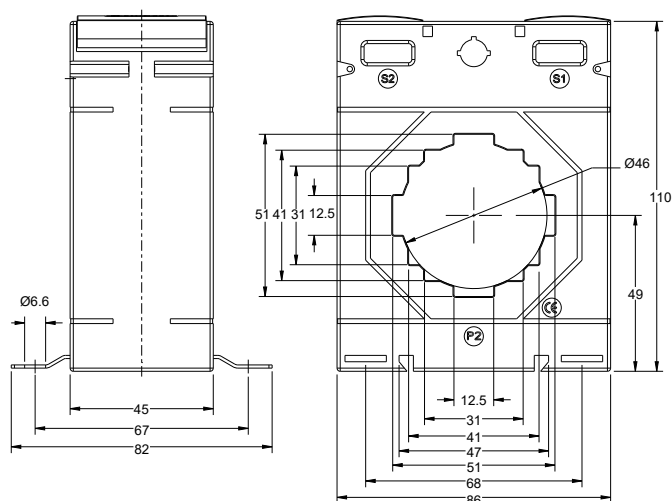
Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL5C-300/1A-0.2



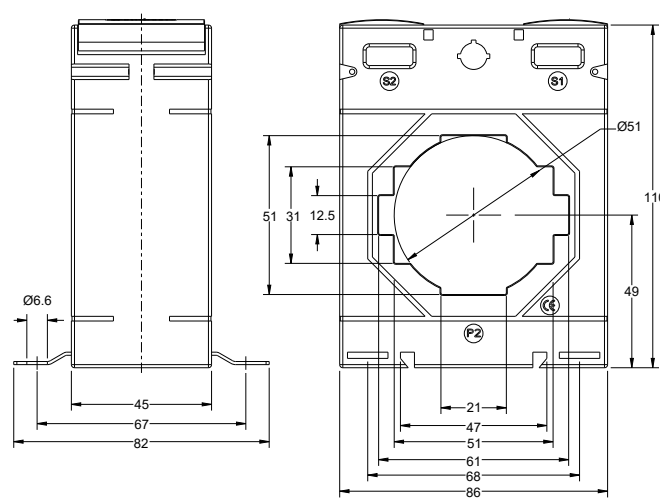
Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.2	0.2S	0.5S	0.2	0.2S	0.5S
XL5C-300/5A-**-	300A	1.5VA	1.5VA	1.5VA	10	5	5
XL5C-400/5A-**-	400A	2.5VA	2.5VA	2.5VA	10	5	5
XL5C-500/5A-**-	500A	3.75VA	2.5VA	2.5VA	10	5	5
XL5C-600/5A-**-	600A	5VA	5VA	5VA	10	10	10
XL5C-750/5A-**-	750A	10VA	5VA	5VA	5	10	10
XL5C-800/5A-**-	800A	12.5VA	7.5VA	7.5VA	5	10	10
XL5C-1000/5A-**-	1000A	15VA	10VA	10VA	5	10	10
XL5C-1200/5A-**-	1200A	15VA	10VA	10VA	5	10	10
XL5C-1250/5A-**-	1250A	15VA	10VA	10VA	5	10	10
XL5C-1500/5A-**-	1500A	15VA	10VA	10VA	5	5	5
XL5C-1600/5A-**-	1600A	15VA	10VA	10VA	5	5	5

Replace ** with required class accuracy

XL5B



XL5C



Ebony Excel⁺ Current Transformers



XL6A⁺ RANGE

Case size: 99 mm wide x 45 mm deep x 170 mm high

Aperture: 41 x 103 mm

Primary Rating: 1000 - 2500A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL6A-1000/1A-0.2



Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.2	0.2S	0.5S	0.2	0.2S	0.5S
XL6A-1000/5A-**-	1000A	5VA	-	-	10	-	-
XL6A-1200/5A-**-	1200A	5VA	5VA	5VA	10	10	10
XL6A-1250/5A-**-	1250A	5VA	5VA	5VA	10	10	10
XL6A-1500/5A-**-	1500A	5VA	5VA	5VA	10	10	10
XL6A-1600/5A-**-	1600A	10VA	7.5VA	7.5VA	10	10	10
XL6A-2000/5A-**-	2000A	10VA	7.5VA	7.5VA	10	10	10
XL6A-2400/5A-**-	2400A	10VA	10VA	10VA	10	10	10
XL6A-2500/5A-**-	2500A	10VA	10VA	10VA	10	10	10

Replace ** with required class accuracy



XL6B⁺ RANGE

Case size: 99 mm wide x 45 mm deep x 170 mm high

Aperture: 38 x 128 mm

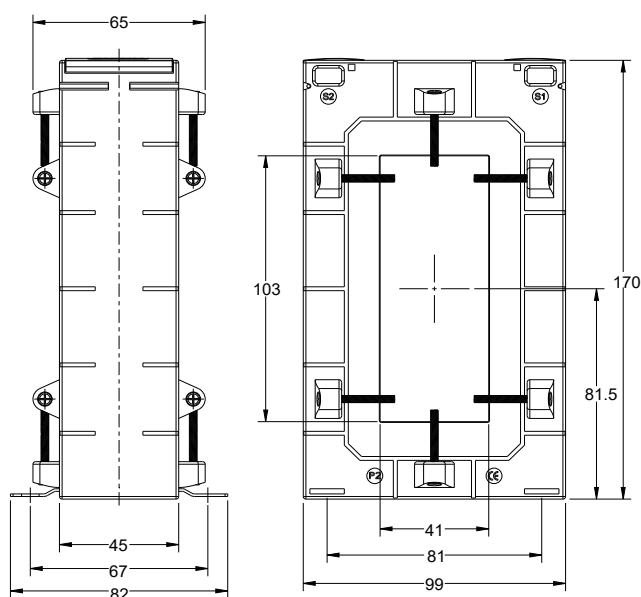
Primary Rating: 1500 - 3200A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL6B-1500/1A-0.2

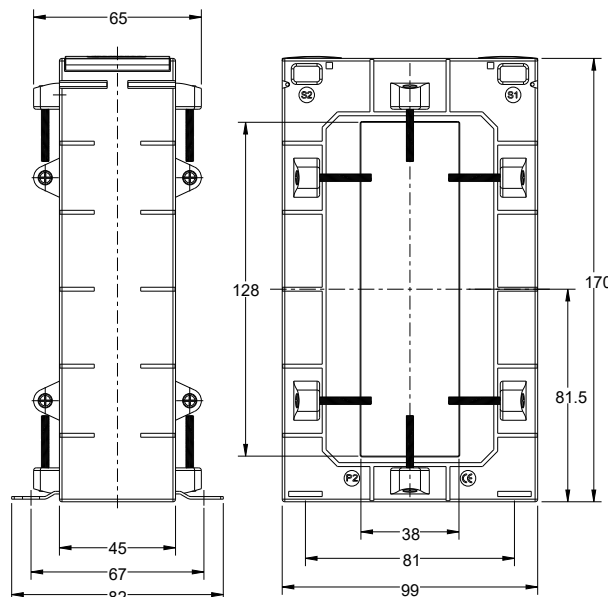


Part number	Primary current	Accuracy	Security Factor (ISF)
		0.2	0.2
XL6B-1500/5A-0.2	1500A	5VA	10
XL6B-1600/5A-0.2	1600A	5VA	10
XL6B-2000/5A-0.2	2000A	5VA	10
XL6B-2500/5A-0.2	2500A	5VA	10
XL6B-3200/5A-0.2	3200A	5VA	10

XL6A



XL6B



Ebony Excel+ Current Transformers



XL7A+ RANGE

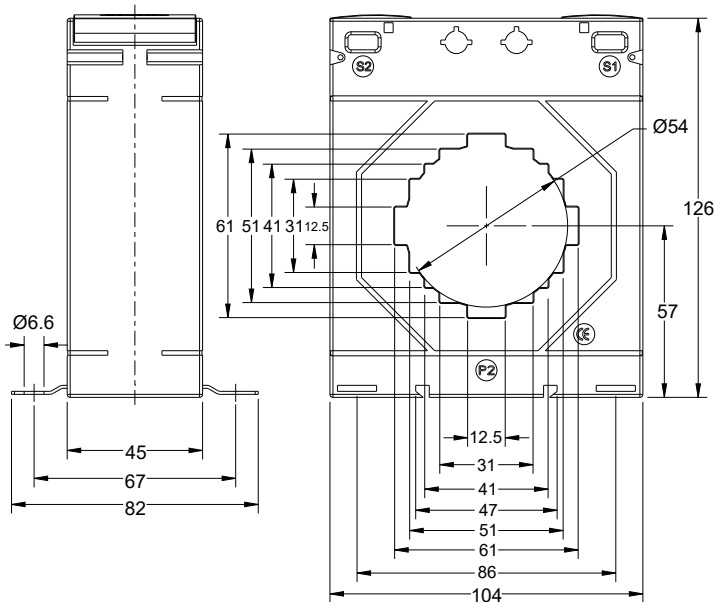
Case size: 104 mm wide x 45 mm deep x 126 mm high
Aperture: 61 x 12.5 mm - 51 x 31 mm - 41 x 41 mm - Ø 54 mm
Primary Rating: 200 - 1600A
Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL7A-200/1A-0.2



Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.2	0.2S	0.5S	0.2	0.2S	0.5S
XL7A-200/5A-**-	200A	1VA	-	-	15	-	-
XL7A-250/5A-**-	250A	2.5VA	-	-	15	-	-
XL7A-300/5A-**-	300A	3.75VA	1.5VA	1.5VA	15	15	15
XL7A-400/5A-**-	400A	7.5VA	2.5VA	2.5VA	15	15	15
XL7A-500/5A-**-	500A	10VA	3.75VA	3.75VA	10	15	15
XL7A-600/5A-**-	600A	15VA	5VA	5VA	10	15	15
XL7A-750/5A-**-	750A	15VA	5VA	5VA	10	15	15
XL7A-800/5A-**-	800A	15VA	7.5VA	7.5VA	10	15	15
XL7A-1000/5A-**-	1000A	20VA	10VA	10VA	5	10	10
XL7A-1200/5A-**-	1200A	30VA	10VA	10VA	5	10	10
XL7A-1250/5A-**-	1250A	30VA	10VA	10VA	5	10	10
XL7A-1500/5A-**-	1500A	30VA	10VA	10VA	5	10	10
XL7A-1600/5A-**-	1600A	30VA	10VA	10VA	5	10	10

Replace ** with required class accuracy

XL7A



Busbar and Mounting feet fixings are supplied as standard.
DIN Rail Mounting Adapters available - Part Number XL-DRBRK-3

Ebony Excel⁺ Current Transformers



XL7B⁺ RANGE

Case size: 104 mm wide x 45 mm deep x 126 mm high

Aperture: 81 x 12.5 mm - 61 x 31 mm - 51 x 51 mm - Ø 65 mm

Primary Rating: 400 - 2000A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL7B-200/1A-0.2



Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.2	0.2S	0.5S	0.2	0.2S	0.5S
XL7B-400/5A-**-	400A	1.5VA	-	-	10	-	-
XL7B-500/5A-**-	500A	5VA	-	-	10	-	-
XL7B-600/5A-**-	600A	5VA	3.75VA	3.75VA	10	10	10
XL7B-750/5A-**-	750A	5VA	5VA	5VA	10	10	10
XL7B-800/5A-**-	800A	7.5VA	5VA	5VA	5	10	10
XL7B-1000/5A-**-	1000A	12.5VA	7.5VA	7.5VA	5	10	10
XL7B-1200/5A-**-	1200A	15VA	10VA	10VA	5	5	5
XL7B-1250/5A-**-	1250A	15VA	10VA	10VA	5	5	5
XL7B-1500/5A-**-	1500A	15VA	10VA	10VA	5	5	5
XL7B-1600/5A-**-	1600A	15VA	10VA	10VA	5	5	5
XL7B-2000/5A-**-	2000A	15VA	10VA	10VA	5	5	5

Replace ** with required class accuracy



XL7C⁺ RANGE

Case size: 130 mm wide x 51 mm deep x 170 mm high

Aperture: 56 x 101 mm

Primary Rating: 600 - 3000A

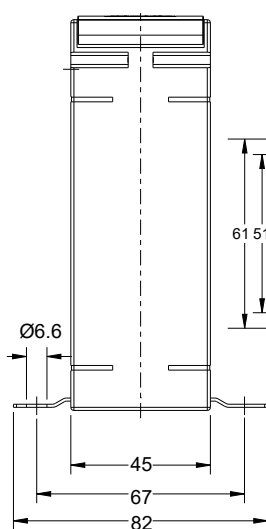
Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL7C-600/1A-0.2



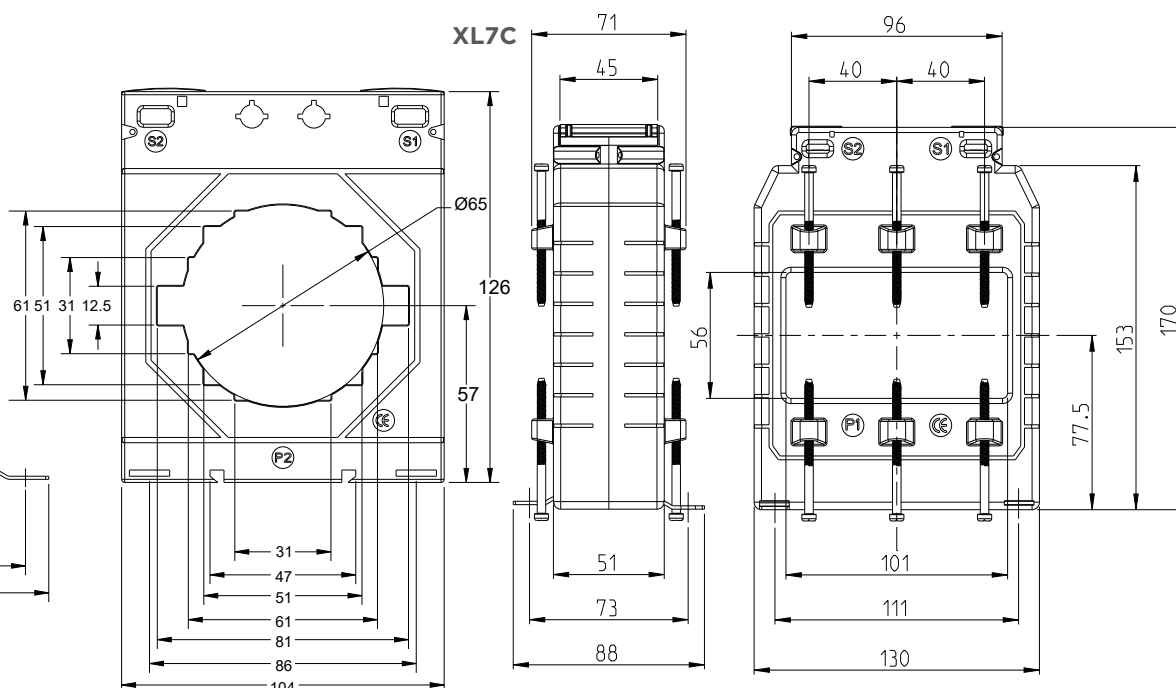
Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.2	0.2S	0.5S	0.2	0.2S	0.5S
XL7C-600/5A-**-	600A	2.5VA	2.5VA	2.5VA	5	5	5
XL7C-750/5A-**-	750A	5VA	3.75VA	3.75VA	5	5	5
XL7C-800/5A-**-	800A	7.5VA	5VA	5VA	5	5	5
XL7C-1000/5A-**-	1000A	10VA	7.5VA	7.5VA	5	5	5
XL7C-1200/5A-**-	1200A	10VA	10VA	10VA	10	10	10
XL7C-1250/5A-**-	1250A	10VA	10VA	10VA	10	10	10
XL7C-1500/5A-**-	1500A	15VA	10VA	10VA	5	10	10
XL7C-1600/5A-**-	1600A	15VA	10VA	10VA	5	10	10
XL7C-2000/5A-**-	2000A	15VA	10VA	10VA	5	10	10
XL7C-2500/5A-**-	2500A	15VA	10VA	10VA	10	10	10
XL7C-3000/5A-**-	3000A	15VA	12.5VA	12.5VA	10	10	10

Replace ** with required class accuracy

XL7B



XL7C



Ebony Excel⁺ Current Transformers



XL8A⁺ RANGE

Case size: 140 mm wide x 45 mm deep x 155 mm high

Aperture: 81 x 31 mm - 61 x 51 mm - Ø 73 mm

Primary Rating: 300 - 2000A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL8A-300/1A-0.2



Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.2	0.2S	0.5S	0.2	0.2S	0.5S
XL8A-300/5A-**-	300A	1.5VA	-	-	15	-	-
XL8A-400/5A-**-	400A	2.5VA	-	-	15	-	-
XL8A-500/5A-**-	500A	5VA	2.5VA	2.5VA	15	15	15
XL8A-600/5A-**-	600A	7.5VA	3.75VA	3.75VA	10	15	15
XL8A-750/5A-**-	750A	10VA	5VA	5VA	10	15	15
XL8A-800/5A-**-	800A	10VA	5VA	5VA	10	15	15
XL8A-1000/5A-**-	1000A	15VA	10VA	10VA	10	10	10
XL8A-1200/5A-**-	1200A	15VA	12.5VA	12.5VA	10	10	10
XL8A-1250/5A-**-	1250A	30VA	12.5VA	12.5VA	5	10	10
XL8A-1500/5A-**-	1500A	30VA	15VA	15VA	5	10	10
XL8A-1600/5A-**-	1600A	30VA	15VA	15VA	5	10	10
XL8A-2000/5A-**-	2000A	30VA	15VA	15VA	5	10	10

Replace ** with required class accuracy



XL8B⁺ RANGE

Case size: 140 mm wide x 45 mm deep x 155 mm high

Aperture: 101 x 31 mm - 81 x 51 mm - Ø 86 mm

Primary Rating: 400 - 4000A

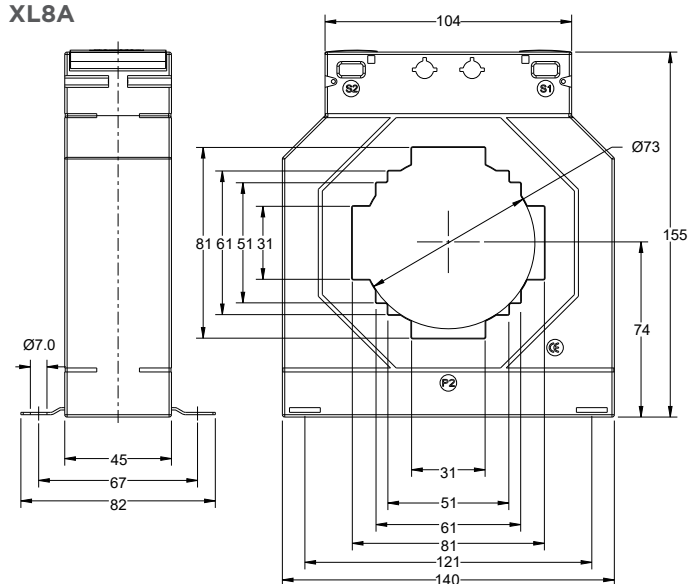
Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL8B-400/1A-0.2S



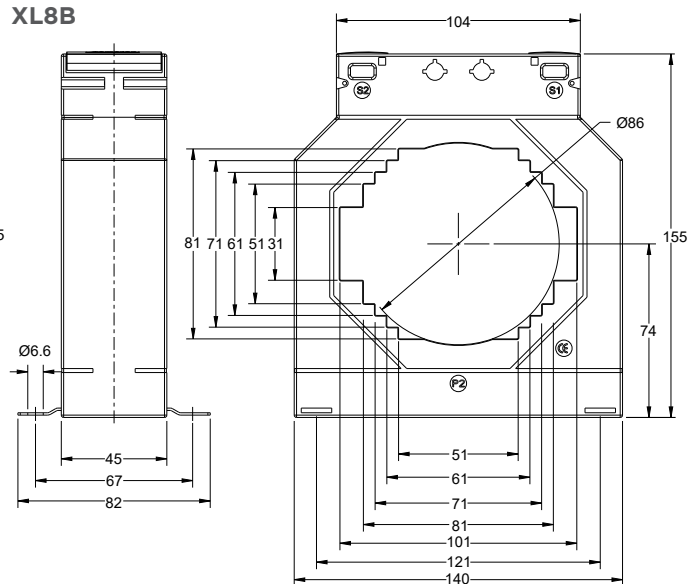
Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.2	0.2S	0.5S	0.2	0.2S	0.5S
XL8B-400/5A-**-	400A	1.5VA	-	-	15	-	-
XL8B-500/5A-**-	500A	2.5VA	-	-	15	-	-
XL8B-600/5A-**-	600A	3.75VA	2.5VA	2.5VA	15	15	15
XL8B-750/5A-**-	750A	5VA	5VA	5VA	15	15	15
XL8B-800/5A-**-	800A	5VA	5VA	5VA	10	10	10
XL8B-1000/5A-**-	1000A	10VA	5VA	5VA	5	10	10
XL8B-1200/5A-**-	1200A	15VA	10VA	10VA	5	5	5
XL8B-1250/5A-**-	1250A	15VA	10VA	10VA	5	5	5
XL8B-1500/5A-**-	1500A	20VA	15VA	15VA	5	5	5
XL8B-1600/5A-**-	1600A	20VA	15VA	15VA	5	5	5
XL8B-2000/5A-**-	2000A	30VA	15VA	15VA	5	5	5
XL8B-2500/5A-**-	2500A	30VA	15VA	15VA	5	5	5
XL8B-3000/5A-**-	3000A	20VA	15VA	15VA	5	5	5
XL8B-4000/5A-**-	4000A	30VA	15VA	15VA	5	5	5

Replace ** with required class accuracy

XL8A



XL8B



Ebony Excel + Current Transformers



XL8C+ RANGE

Case size: 140 mm wide x 45 mm deep x 155 mm high

Aperture: 31 x 101 mm - 51 x 81 mm - 61 x 71 mm - Ø 86mm

Primary Rating: 400 - 3000A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL8C-400/1A-0.2



Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.2	0.2S	0.5S	0.2	0.2S	0.5S
XL8C-400/5A-**	400A	1.5VA	-	-	15	-	-
XL8C-500/5A-**	500A	2.5VA	-	-	15	-	-
XL8C-600/5A-**	600A	3.75VA	2.75VA	2.75VA	15	15	15
XL8C-750/5A-**	750A	5VA	5VA	5VA	15	15	15
XL8C-800/5A-**	800A	5VA	5VA	5VA	10	10	10
XL8C-1000/5A-**	1000A	10VA	5VA	5VA	5	10	10
XL8C-1200/5A-**	1200A	15VA	10VA	10VA	5	5	5
XL8C-1250/5A-**	1250A	15VA	10VA	10VA	5	5	5
XL8C-1500/5A-**	1500A	20VA	15VA	15VA	5	5	5
XL8C-1600/5A-**	1600A	20VA	15VA	15VA	5	5	5
XL8C-2000/5A-**	2000A	30VA	15VA	15VA	5	5	5
XL8C-2500/5A-**	2500A	30VA	15VA	15VA	5	5	5
XL8C-3000/5A-**	3000A	30VA	15VA	15VA	5	5	5

Replace ** with required class accuracy



XL9A+ RANGE

Case size: 140 mm wide x 45 mm deep x 185 mm high

Aperture: 70 x 130 mm

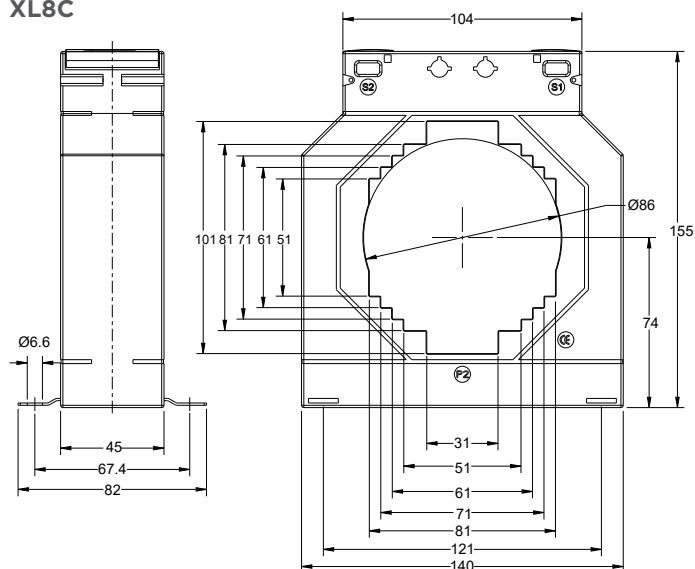
Primary Rating: 1000 - 5000A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL9A-1000/1A-0.2

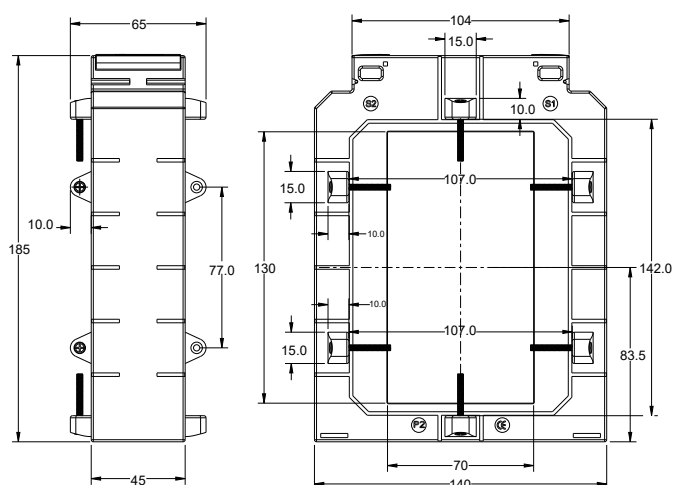


Part number	Primary current	Accuracy	Security Factor (ISF)
		0.2	0.2
XL9A-1000/5A-**-	1000A	5VA	10
XL9A-1200/5A-**-	1200A	7.5VA	10
XL9A-1250/5A-**-	1250A	7.5VA	10
XL9A-1500/5A-**-	1500A	10VA	10
XL9A-1600/5A-**-	1600A	10VA	10
XL9A-2000/5A-**-	2000A	15VA	10
XL9A-2500/5A-**-	2500A	15VA	10
XL9A-3000/5A-**-	3000A	15VA	10
XL9A-3200/5A-**-	3200A	15VA	10
XL9A-4000/5A-**-	4000A	15VA	10
XL9A-5000/5A-**-	5000A	15VA	15

Replace ** with required class accuracy

XL8C

XL9A



Ebony Excel⁺ Current Transformers



XL10A⁺ RANGE

Case size: 225 mm wide x 50 mm deep x 206 mm high

Aperture: 125 x 93 mm

Primary Rating: 600 - 6000A

Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL10A-600/1A-0.2



Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.2	0.2S	0.5S	0.2	0.2S	0.5S
XL10A-600/5A-**-	600A	5VA	-	-	10	-	-
XL10A-750/5A-**-	750A	5VA	-	-	10	-	-
XL10A-800/5A-**-	800A	5VA	-	-	10	-	-
XL10A-1000/5A-**-	1000A	10VA	5VA	5VA	10	10	10
XL10A-1200/5A-**-	1200A	10VA	5VA	5VA	10	10	10
XL10A-1250/5A-**-	1250A	10VA	5VA	5VA	10	10	10
XL10A-1500/5A-**-	1500A	10VA	7.5VA	7.5VA	10	10	10
XL10A-1600/5A-**-	1600A	10VA	7.5VA	7.5VA	10	10	10
XL10A-2000/5A-**-	2000A	10VA	10VA	10VA	10	10	10
XL10A-2500/5A-**-	2500A	15VA	10VA	10VA	10	10	10
XL10A-3000/5A-**-	3000A	15VA	10VA	10VA	10	10	10
XL10A-4000/5A-**-	4000A	30VA	15VA	15VA	10	10	10
XL10A-5000/5A-**-	5000A	30VA	15VA	15VA	15	15	15
XL10A-6000/5A-**-	6000A	60VA	15VA	15VA	15	15	15

Replace ** with required class accuracy



XL10B⁺ RANGE

Case size: 225 mm wide x 50 mm deep x 206 mm high

Aperture: 167 x 66 mm

Primary Rating: 1000 - 7500A

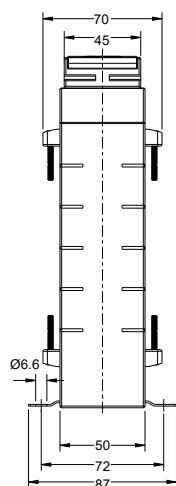
Secondary Rating: 5A as below, 1A Ratio's available change part number to end in 1A e.g. XL10B-1000/1A-0.2



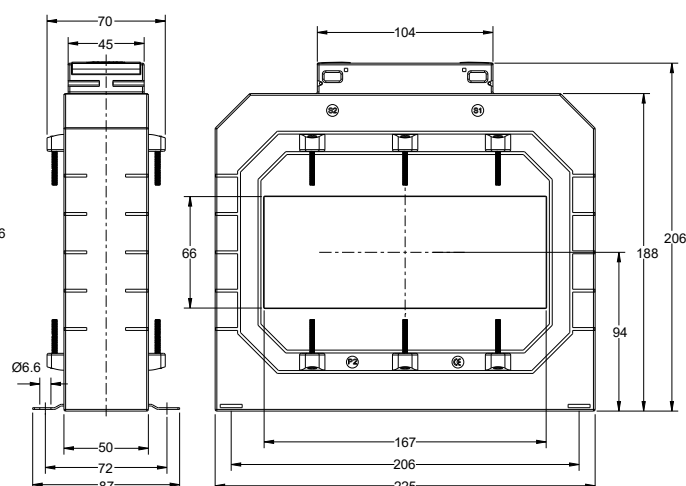
Part number	Primary current	Accuracy			Security Factor (ISF)		
		0.2	0.2S	0.5S	0.2	0.2S	0.5S
XL10B-1000/5A-**-	1000A	3.75VA	-	-	10	-	-
XL10B-1200/5A-**-	1200A	5VA	-	-	10	-	-
XL10B-1250/5A-**-	1250A	5VA	-	-	10	-	-
XL10B-1500/5A-**-	1500A	10VA	5VA	5VA	10	10	10
XL10B-1600/5A-**-	1600A	10VA	5VA	5VA	10	10	10
XL10B-2000/5A-**-	2000A	10VA	7.5VA	7.5VA	10	10	10
XL10B-2500/5A-**-	2500A	15VA	10VA	10VA	10	10	10
XL10B-3000/5A-**-	3000A	15VA	10VA	10VA	10	10	10
XL10B-4000/5A-**-	4000A	15VA	10VA	10VA	10	15	15
XL10B-5000/5A-**-	5000A	20VA	15VA	15VA	10	15	15
XL10B-6000/5A-**-	6000A	20VA	15VA	15VA	10	15	15
XL10B-7500/5A-**-	7500A	20VA	15VA	15VA	15	15	15

Replace ** with required class accuracy

XL10A



XL10B



Ebony Excel⁺ Current Transformers

	XLO model		XL3 model				
	XL0A+	XL0B+	XL3A+	XL3B+	XL3C+	XL3D+	XL3E+
Inside Dia Ø (mm)	-	-	22.5	-	30.5	31	28
Busbars (mm)	-	-	-	-	-	-	-
	-	-	-	20 X 10	30 X 10	40 X 10	-
			-	15 X 15	25 X 25	30 X 20	30 X 10
Height (mm)	78	98	78	78	78	78	78
Width (mm)	62	74	62	62	62	62	62
Depth (mm)	40	45	40	40	40	40	51
DIN Rail Mounting Adapter (available seperately)	-	-	✓	✓	✓	✓	✓
Panel or Wall Mounting	✓	✓	✓	✓	✓	✓	✓
Busbar Mounting	-	-	-	✓	✓	✓	✓
Terminal Cover	✓	✓	✓	✓	✓	✓	✓
Primary Current	1A→30A	1A→60A	100A→600A	100A→500A	100A→800A	200A→800A	100A→800A
Max screw torque setting (Nm)	0.75	0.75	0.75	0.75	0.75	0.75	0.75
UL Approved	Y	Y	Y	Y	Y	Y	Y

	XL4 model				XL5 model		
	XL4A+	XL4B+	XL4C+	XL4D+	XL5A+	XL5B+	XL5C+
Inside Dia Ø (mm)	20.4	26	35	41	36	46	51
Busbars (mm)	-	-	-	50 X 12.5	-	-	-
	15 x 15	30 X 15	40 X 10	40 X 20	40 X 10	50 X 10	60 X 10
	20 X 10	20 X 20	30 X 30	30 X 30	30 X 30	40 X 30	50 X 30
Height (mm)	98	98	98	98	110	110	110
Width (mm)	74	74	74	74	86	86	86
Depth (mm)	45	45	45	45	45	45	45
DIN Rail Mounting Adapter (available seperately)	✓	✓	✓	✓	✓	✓	✓
Panel or Wall Mounting	✓	✓	✓	✓	✓	✓	✓
Busbar Mounting	✓	✓	✓	✓	✓	✓	✓
Terminal Cover	✓	✓	✓	✓	✓	✓	✓
Primary Current	100A→500A	100A→800A	100A→1000A	250A→1000A	100A→1000A	200A→1250A	300A→1600A
Max screw torque setting (Nm)	0.75	0.75	0.75	0.75	0.75	0.75	0.75
UL Approved	Y	Y	Y	Y	Y	Y	Y

Ebony Excel⁺ Current Transformers

	XL6 model		XL7 model		
	XL6A+	XL6B+	XL7A+	XL7B+	XL7C+
Inside Dia Ø (mm)	-	-	54	65	-
Busbars (mm)	-	-	60 X 10	80 X 10	101 X 56
	40 X 100	40 X 125	50 X 30	60 X 30	-
	-	-	40 X 40	50 X 50	-
Height (mm)	170	170	126	126	170
Width (mm)	99	99	104	104	130
Depth (mm)	45	45	45	45	51
DIN Rail Mounting Adapter (available seperately)	-	-	✓	✓	-
Panel or Wall Mounting	✓	✓	✓	✓	✓
Busbar Mounting	✓	✓	✓	✓	✓
Terminal Cover	✓	✓	✓	✓	✓
Primary Current	1000A→2500A	1500A→3200A	200A→1600A	400A→2000A	600→3000
Max screw torque setting (Nm)	0.75	0.75	0.75	0.75	0.75
UL Approved	Y	Y	Y	Y	Y

	XL8 model			XL9 model	XL10 model	
	XL8A+	XL8B+	XL8C+	XL9A+	XL10A+	XL10B+
Inside Dia Ø (mm)	73	86	86	-	-	-
Busbars (mm)	-	100 X 30	30 X 100	-	-	-
	80 X 30	80 X 50	50 X 80	70 X 130	125 X 90	167 X 66
	60 X 50	70 X 60	60 X 70	-	-	-
Height (mm)	155	155	155	185	206	206
Width (mm)	140	140	140	140	225	225
Depth (mm)	45	45	45	45	50	50
DIN Rail Mounting Adapter (available seperately)	-	-	-	-	-	-
Panel or Wall Mounting	✓	✓	✓	✓	✓	✓
Busbar Mounting	✓	✓	✓	✓	✓	✓
Terminal Cover	✓	✓	✓	✓	✓	✓
Primary Current	300A→2000A	400A→4000A	400A→3000A	1000A→5000A	600A→6000A	1000A→7500A
Max screw torque setting (Nm)	0.75	0.75	0.75	0.75	0.75	0.75
UL Approved	Y	Y	Y	Y	Y	Y

Ebony Excel⁺ Current Transformers

Ebony Excel Plus Accessories

Busbar Mounting Kits are supplied as standard with each Current Transformer.

The kit contains a selection of the below items based on what is required for each individual Current Transformer.

Busbar Mounting Kit Items			
M4 Busbar mounting Screws		Swivels	
Push in metal feet		Shoe for M4 Busbar mounting Screws	

Extra Busbar Mounting Kits are available to order, please see the below table

Current Transformer Model Type	Mounting Kit Order Code	Items in each Mounting Kit
XL0A, XL0B, XL1A, XL1B	XL-KIT-001	2 x Push in metal feet
XL3A, XL3B, XL3C, XL3D, XL3E XL4A, XL4B, XL4C, XL4D XL5A, XL5B, XL5C	XL-KIT-003	2 x Busbar mounting screws M4 x 45mm 2 x Push in metal feet 2 x Swivels 2 x Shoe for self tapping M4 screws
XL6A, XL6B	XL-KIT-004	2 x Busbar mounting screws M4 x 35mm 2 x Push in metal feet 2 x Shoe for self tapping M4 screws
XL7A, XL7B, XL7C	XL-KIT-005	4 x Busbar mounting screws M4 x 45mm 2 x Push in metal feet 2 x Swivels 4 x Shoe for self tapping M4 screws
XL8A, XL8B, XL8C	XL-KIT-006	4 x Busbar mounting screws M4 x 75mm 2 x Push in metal feet 4 x Swivels 4 x Shoe for self tapping M4 screws
XL9A	XL-KIT-007	1 x Busbar mounting screw M4 x 75mm 5 x Busbar mounting screws M4 x 45mm 2 x Push in metal feet 6 x Shoe for self tapping M4 screws
XL10A, XL10B	XL-KIT-008	6 x Busbar mounting screws M4 x 75mm 2 x Push in metal feet 6 x Shoe for self tapping M4 screws

DIN Rail Mounting Adapters (available seperately)

Current Transformer Model Type	Order Code	
XL1A, XL1B	XL-DRBRK-1	
XL3A, XL3B, XL3C, XL3D, XL3E XL4A, XL4B, XL4C XL4D, XL5A, XL5B, XL5C XL7A, XL7B, XL7C	XL-DRBRK-3	

Ebony Excel⁺ Current Transformers

Accuracy Class:- A designation assigned to a current transformer the errors of which remain within specified limit under prescribed conditions of use.

Rated Burden:- The impedance of the secondary circuit on which the accuracy requirements are based. It is usually expressed as apparent power (in VA), at the rated secondary current and at a specified power factor.

Rated Output:- The value of the apparent power (in volt-amperes at a specified power factor) which the current transformer is intended to supply to the secondary circuit at the rated secondary current and with rated burden connected to it.

Highest System Voltage:- The highest rms line to line voltage which can be sustained under normal operating conditions at any time and at any point on the system. It excludes temporary voltage variations due to fault condition and the sudden disconnection of large loads.

Rated Insulation Level:- That combination of voltage values (power frequency and lightning impulse, or where applicable, lightning and switching impulse) which characterizes the insulation of a transformer with regard to its capability to withstand by dielectric stresses. For low voltage transformer the test voltage 4kV, at power-frequency, applied during 1 minute.

Rated Short Time Thermal Current (I_{th}):- The RMS value of the primary current which the current transformer will withstand for a rated time, with their secondary winding short circuits without suffering harmful effects.

Rated Dynamic Current (I_{dyn}):- The peak value of the primary current which a current transformer will withstand, without being damaged electrically for mechanically by the resulting electromagnetic forces, the secondary winding being short-circuited.

Rated Continuous Thermal Current:- The value of current which can be permitted to flow continuously in the primary winding, the secondary windings being connected to the rated burdens, without the temperature rise exceeding the specified values.

Instrument Security Factor (ISF):- Instrument Security Factor is the ratio of Instrument Limit Primary Current to the rated Primary Current. Instrument Limit Current of a metering Current Transformer is the maximum value of primary current beyond which Current Transformer core becomes saturated. Instrument Security Factor of CT is the significant factor for choosing the metering Instruments which to be connected to the secondary of the CT. Security or Safety of the measuring unit is better, if ISF is low.

Ebony Excel Protection Current Transformers



FEATURES

- Current ratings from 50 – 6000 Amps
- 5A & 1A Secondaries
- Comprehensive range of protection class accuracy's
- Cost effective moulded case
- Wide range of system current ratings, busbar sizes, case dimensions & apertures
- Wall, cable, busbar & DIN rail mounting
- Hinged terminal covers



BENEFITS

- Wide range of apertures and case sizes
- Reduction of high currents for ease of metering
- Long product life

APPROVALS

- IEC 61869-2
- BS3938

TE's Crompton Instruments Ebony Excel range of Protection Current Transformers offer wide system current ratings, apertures, busbar and case sizes to suit every application. Manufactured to meet IEC61869-2, the range benefits include primary currents ranging from 50 to 6000 Amps, a comprehensive range of protection class accuracies, hinged wire sealable terminal covers for safety and multiple mounting options.

CONSTRUCTION

The toroidal core and secondary winding is encapsulated with UL94V-0 approved polycarbonate, in moulded case providing excellent mechanical strength and electrical insulation.

INSTALLATION OPTIONS

- Plug-in metal feet for wall or base mounting
- Moulded busbar mounting
- Primary copper busbar mounting
- Multi busbar mounting for two busbars
- Plastic DIN-rail adaptor for DIN-rail mounting (available as an option on selected models)

SPECIFICATION

Applicable Standards	IEC-61869-1&2, BS 3938, IS 2705 -1,2&3.
Case	Unfilled polycarbonate, flame retardant grades classified UL 94V-0
Connection	Two connection on each side. M4 screws with self lifting clamp strap assembly
Insulation Class	E (120°C max)
System Voltage	720V maximum
Test Voltage	For Ring (Window) type CT : 4KV 50 Hz for 1 min
Operating Frequency	50Hz / 60 Hz
Rated primary rating	100 A to 6000 A
Rated secondary output	5A standard (1A on request)
Rated burden	1, 1.25, 1.5, 2.5, 3.75, 5, 7.5, 10, 12.5, 15, 20 VA
Class of accuracy	5P & 10P
Ambient temperature	-25°C to +40°C
Storage temperature	-50°C...+80°C
Thermal short circuit current (I _{th})	60xI _n for Bus Bar type CT.
Dynamic short circuit current (I _{dyn})	2.5xI _{th}
Accuracy Limit Factor (ALF):	5, 10

ACCURACY CLASSES

The Ebony Excel Protection CT range includes a comprehensive range of protection class accuracies 5P5, 10P5, 5P10 & 10P10.

Ebony Excel Protection Current Transformers



XLPR3A MODEL

Case size: 62 mm wide x 40 mm deep x 78 mm high

Aperture: Ø 22.5 mm

Primary Rating: 100 - 300A

Secondary Rating: 5A as below, 1A Ratio's available

Change part number to include 1A e.g. XLPR3A-100/1A-10P5

Part number	Primary current	Accuracy	
		5P5	10P5
XLPR3A-100/5A-**-	100A	-	1VA
XLPR3A-125/5A-**-	125A	1VA	1VA
XLPR3A-150/5A-**-	150A	1VA	1VA
XLPR3A-200/5A-**-	200A	1VA	1VA
XLPR3A-250/5A-**-	250A	1VA	1VA
XLPR3A-300/5A-**-	300A	1VA	1.5VA

-**-Add class code to complete part number e.g. XLPR3A-100/5A-10P5



XLPR3B MODEL

Case size: 62 mm wide x 40 mm deep x 78 mm high

Aperture: 20.5 x 12.5 mm - 15.5 x 15.5 mm

Primary Rating: 100 - 200A

Secondary Rating: 5A as below, 1A Ratio's available

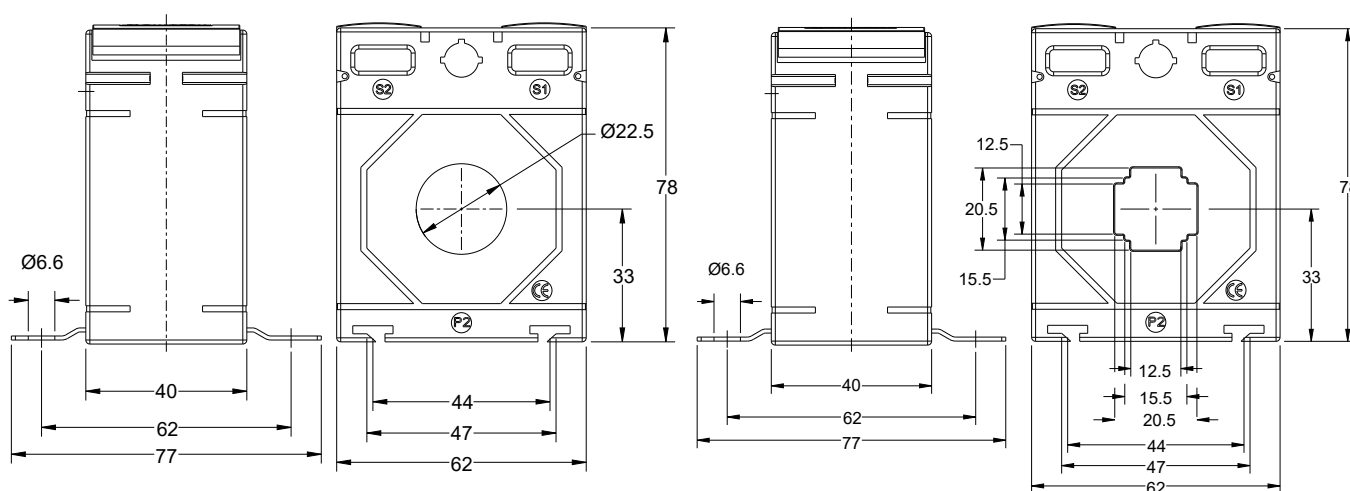
Change part number to include 1A e.g. XLPR3A-100/1A-10P5

Part number	Primary current	Accuracy	
		5P5	10P5
XLPR3B-100/5A-**-	100A	-	1VA
XLPR3B-125/5A-**-	125A	1VA	1VA
XLPR3B-150/5A-**-	150A	1VA	1VA
XLPR3B-200/5A-**-	200A	1VA	1VA

-**-Add class code to complete part number e.g. XLPR3A-100/5A-10P5

XLPR3A

XLPR3B



Busbar and Mounting feet fixings are supplied as standard.
DIN Rail Mounting Adapters available - Part Number XL-DRBRK-3

Ebony Excel Protection Current Transformers



XLPR4A MODEL

Case size: 74 mm wide x 45 mm deep x 98 mm high

Aperture: 21 x 11 mm - 15.5 X 15.5 mm - Ø 20.4 mm

Primary Rating: 200 - 400A

Secondary Rating: 5A as below, 1A Ratio's available

Change part number to include 1A e.g. XLPR3A-100/1A-10P5

Part number	Primary current	Accuracy	
		5P5	10P5
XLPR4A-200/5A-**-	200A	2.5VA	2.5VA
XLPR4A-250/5A-**-	250A	2.5VA	2.5VA
XLPR4A-300/5A-**-	300A	2.5VA	2.5VA
XLPR4A-400/5A-**-	400A	2.5VA	2.5VA

-**-Add class code to complete part number e.g. XLPR3A-100/5A-10P5



XLPR4C MODEL

Case size: 74 mm wide x 45 mm deep x 98 mm high

Aperture: 41 x 12.5 mm - 31 x 31 mm - Ø 35 mm

Primary Rating: 120 - 750A

Secondary Rating: 5A as below, 1A Ratio's available

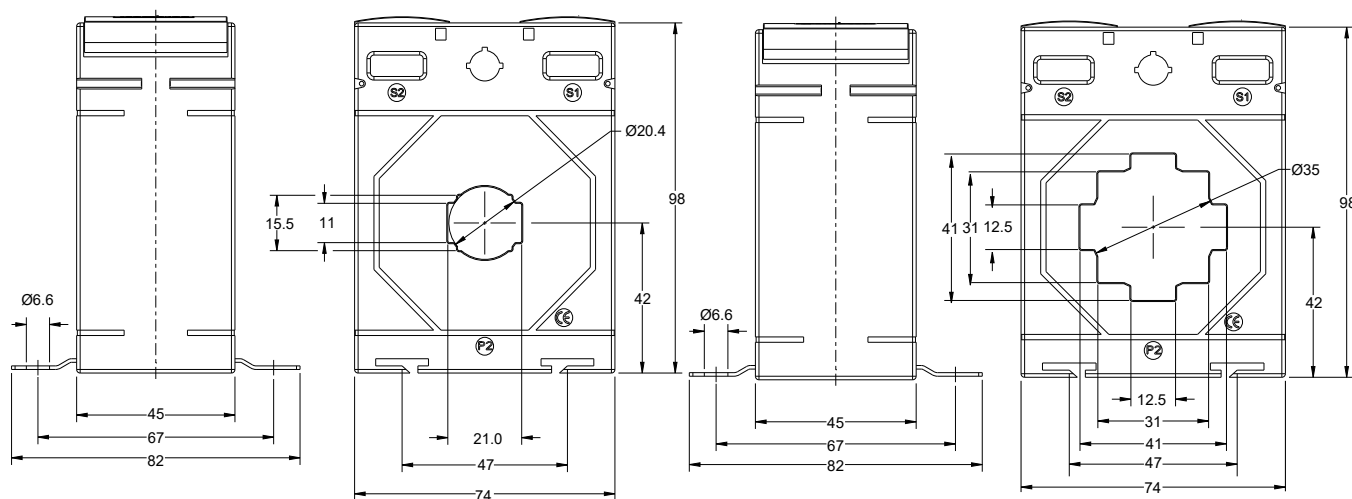
Change part number to include 1A e.g. XLPR3A-100/1A-10P5

Part number	Primary current	Accuracy	
		5P5	10P5
XLPR4C-120/5A-**-	120A	1VA	1VA
XLPR4C-125/5A-**-	125A	1VA	1VA
XLPR4C-150/5A-**-	150A	1VA	1.5VA
XLPR4C-200/5A-**-	200A	1.5VA	1.5VA
XLPR4C-250/5A-**-	250A	1.5VA	1.5VA
XLPR4C-300/5A-**-	300A	1.5VA	1.5VA
XLPR4C-400/5A-**-	400A	1.5VA	1.5VA
XLPR4C-500/5A-**-	500A	1.5VA	1.5VA
XLPR4C-600/5A-**-	600A	1.5VA	1.5VA
XLPR4C-750/5A-**-	750A	1.5VA	2.5VA

-**-Add class code to complete part number e.g. XLPR3A-100/5A-10P5

XLPR4A

XLPR4C



Busbar and Mounting feet fixings are supplied as standard.
DIN Rail Mounting Adapters available - Part Number XL-DRBK-3

Ebony Excel Protection Current Transformers

XLPR5A MODEL

Case size: 86 mm wide x 45 mm deep x 110 mm high

Aperture: 41 x 11 mm - 31 x 31 mm - Ø 36 mm diameter

Primary Rating: 100 - 600A

Secondary Rating: 5A as below, 1A Ratio's available

Change part number to include 1A e.g. XLPR3A-100/1A-10P5

Part number	Primary current	Accuracy			
		5P5	10P5	5P10	10P10
XLPR5A-100/5A-**-	100A	1.5VA	1.5VA	-	-
XLPR5A-120/5A-**-	120A	1.5VA	1.5VA	-	-
XLPR5A-125/5A-**-	125A	1.5VA	2.5VA	-	-
XLPR5A-150/5A-**-	150A	2.5VA	2.5VA	-	-
XLPR5A-200/5A-**-	200A	2.5VA	2.5VA	-	-
XLPR5A-250/5A-**-	250A	2.5VA	2.5VA	-	-
XLPR5A-300/5A-**-	300A	3.75VA	3.75VA	1VA	1VA
XLPR5A-400/5A-**-	400A	5VA	5VA	1.25VA	1.25VA
XLPR5A-500/5A-**-	500A	5VA	6.25VA	1.5VA	1.5VA
XLPR5A-600/5A-**-	600A	6.25VA	7.5VA	1.5VA	1.5VA

-**Add class code to complete part number e.g. XLPR3A-100/5A-10P5

XLPR5B MODEL

Case size: 86 mm wide x 45 mm deep x 110 mm high

Aperture: 51 x 12.5 mm - 41 x 31 mm - Ø 46 mm

Primary Rating: 100 - 800A

Secondary Rating: 5A as below, 1A Ratio's available

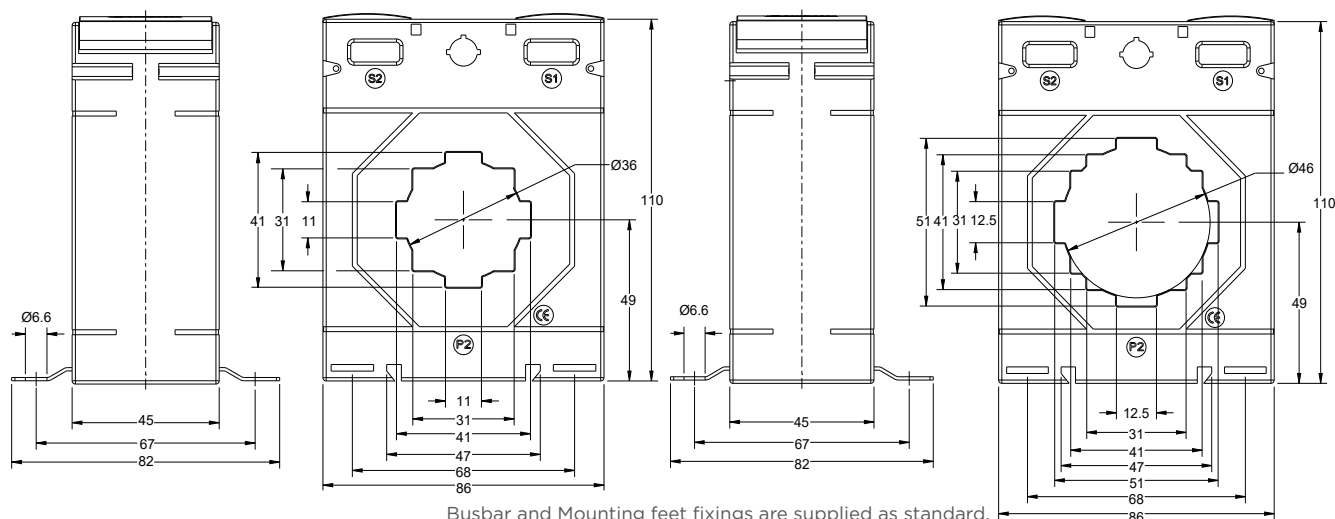
Change part number to include 1A e.g. XLPR3A-100/1A-10P5

Part number	Primary current	Accuracy			
		5P5	10P5	5P10	10P10
XLPR5B-100/5A-**-	100A	1.5VA	1.5VA	-	-
XLPR5B-150/5A-**-	150A	1.75VA	1.75VA	-	-
XLPR5B-200/5A-**-	200A	2.5VA	2.5VA	-	-
XLPR5B-250/5A-**-	250A	3.75VA	3.75VA	-	-
XLPR5B-300/5A-**-	300A	3.75VA	3.75VA	1VA	1VA
XLPR5B-400/5A-**-	400A	5VA	5VA	1VA	1VA
XLPR5B-500/5A-**-	500A	5VA	5VA	1VA	1VA
XLPR5B-600/5A-**-	600A	5VA	5VA	1VA	1VA
XLPR5B-750/5A-**-	750A	7.5VA	7.5VA	1.5VA	1.5VA
XLPR5B-800/5A-**-	800A	7.5VA	7.5VA	1.5VA	1.5VA

-**Add class code to complete part number e.g. XLPR3A-100/5A-10P5

XLPR5A

XLPR5B



Busbar and Mounting feet fixings are supplied as standard.
DIN Rail Mounting Adapters available - Part Number XL-DRBK-3

Ebony Excel Protection Current Transformers



XLPR7A MODEL

Case size: 104 mm wide x 45 mm deep x 126 mm high

Aperture: 61 x 12.5 mm - 51 x 31 mm - 41 x 41 mm - Ø 54 mm

Primary Rating: 100 - 800A

Secondary Rating: 5A as below, 1A Ratio's available

Change part number to include 1A e.g. XLPR3A-100/1A-10P5

Part number	Primary current	Accuracy			
		5P5	10P5	5P10	10P10
XLPR7A-100/5A-**-	100A	1.5VA	1.5VA	-	-
XLPR7A-150/5A-**-	150A	2.5VA	2.5VA	1VA	1VA
XLPR7A-200/5A-**-	200A	3.75VA	3.75VA	1VA	1VA
XLPR7A-250/5A-**-	250A	5VA	5VA	1.5VA	1.5VA
XLPR7A-300/5A-**-	300A	5VA	5VA	1.75VA	1.75VA
XLPR7A-400/5A-**-	400A	7.5VA	7.5VA	1.75VA	1.75VA
XLPR7A-500/5A-**-	500A	7.5VA	7.5VA	1.75VA	1.75VA
XLPR7A-600/5A-**-	600A	7.5VA	7.5VA	1.75VA	1.75VA
XLPR7A-750/5A-**-	750A	10VA	10VA	1.75VA	1.75VA
XLPR7A-800/5A-**-	800A	10VA	10VA	1.75VA	1.75VA

-**Add class code to complete part number e.g. XLPR3A-100/5A-10P5



XLPR7D MODEL

Case size: 104 mm wide x 45 mm deep x 126 mm high

Aperture: 31 x 11 mm, 26 x 26 mm - Ø 30 mm

Primary Rating: 50 - 600A

Secondary Rating: 5A as below, 1A Ratio's available

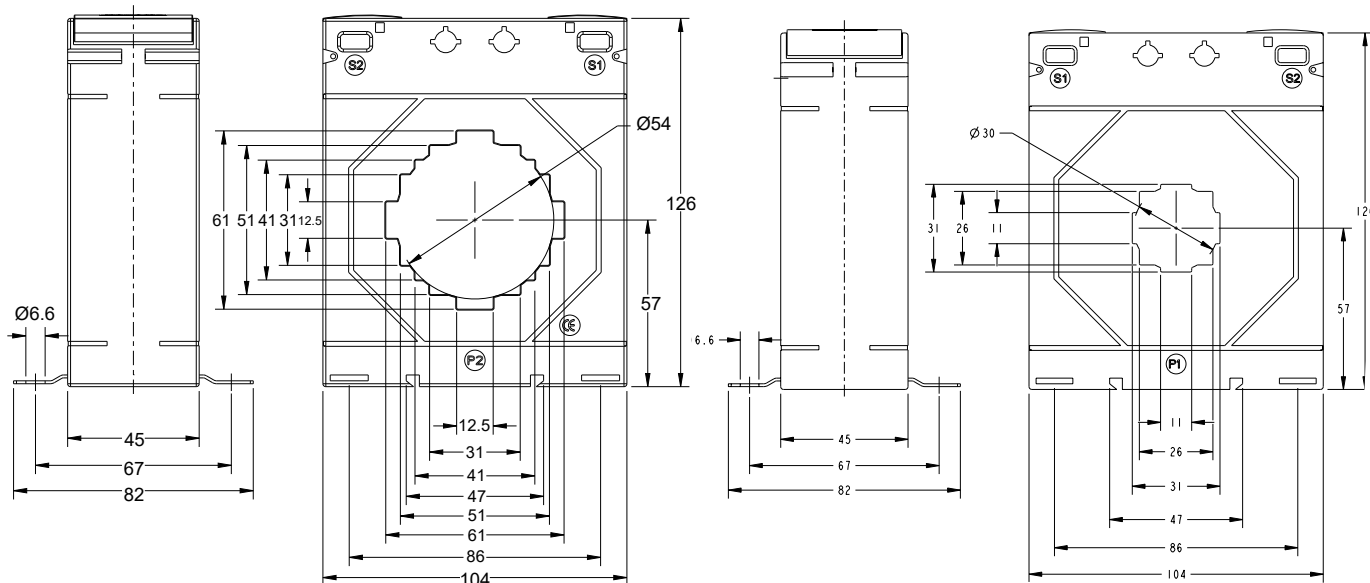
Change part number to include 1A e.g. XLPR3A-100/1A-10P5

Part number	Primary current	Accuracy			
		5P5	10P5	5P10	10P10
XLPR7D-50/5A-**-	50A	2.5VA	2.5VA	-	-
XLPR7D-60/5A-**-	60A	2.5VA	2.5VA	-	1.5VA
XLPR7D-75/5A-**-	75A	2.5VA	2.5VA	-	1.5VA
XLPR7D-80/5A-**-	80A	2.5VA	2.5VA	1.5VA	1.5VA
XLPR7D-100/5A-**-	100A	5VA	5VA	1.5VA	2.5VA
XLPR7D-125/5A-**-	125A	5VA	5VA	1.5VA	2.5VA
XLPR7D-150/5A-**-	150A	7.5VA	7.5VA	2.5VA	2.5VA
XLPR7D-200/5A-**-	200A	10VA	10VA	3.75VA	3.75VA
XLPR7D-250/5A-**-	250A	10VA	10VA	5VA	5VA
XLPR7D-300/5A-**-	300A	10VA	10VA	5VA	5VA
XLPR7D-400/5A-**-	400A	15VA	15VA	5VA	5VA
XLPR7D-500/5A-**-	500A	15VA	15VA	7.5VA	7.5VA
XLPR7D-600/5A-**-	600A	15VA	15VA	7.5VA	10VA

-**Add class code to complete part number e.g. XLPR3A-100/5A-10P5

XLPR7A

XLPR7D



Busbar and Mounting feet fixings are supplied as standard.

DIN Rail Mounting Adapters available - Part Number XL-DRBRK-3

Ebony Excel Protection Current Transformers



XLPR7E MODEL

Case size: 104 mm wide x 45 mm deep x 126 mm high

Aperture: 51 x 12.5 mm, 41 x 31 mm - Ø 41 mm

Primary Rating: 150 - 1000A

Secondary Rating: 5A as below, 1A Ratio's available

Change part number to include 1A e.g. XLPR3A-100/1A-10P5

Part number	Primary current	Accuracy			
		5P5	10P5	5P10	10P10
XLPR7E-150/5A-**-	150A	2.5VA	2.5VA	-	-
XLPR7E-200/5A-**-	200A	5VA	5VA	1.5VA	1.5VA
XLPR7E-250/5A-**-	250A	5VA	7.5VA	2.5VA	2.5VA
XLPR7E-300/5A-**-	300A	7.5VA	7.5VA	2.5VA	2.5VA
XLPR7E-400/5A-**-	400A	7.5VA	7.5VA	2.5VA	2.5VA
XLPR7E-500/5A-**-	500A	10VA	10VA	2.5VA	2.5VA
XLPR7E-600/5A-**-	600A	10VA	10VA	2.5VA	2.5VA
XLPR7E-750/5A-**-	750A	10VA	10VA	5VA	5VA
XLPR7E-800/5A-**-	800A	10VA	10VA	5VA	5VA
XLPR7E-1000/5A-**-	1000A	10VA	10VA	5VA	5VA

-**Add class code to complete part number e.g. XLPR3A-100/5A-10P5

XLPR8A

Case size: 140 mm wide x 45 mm deep x 155 mm high

Aperture: 81 x 31 mm - 61 x 51 mm - Ø 73 mm

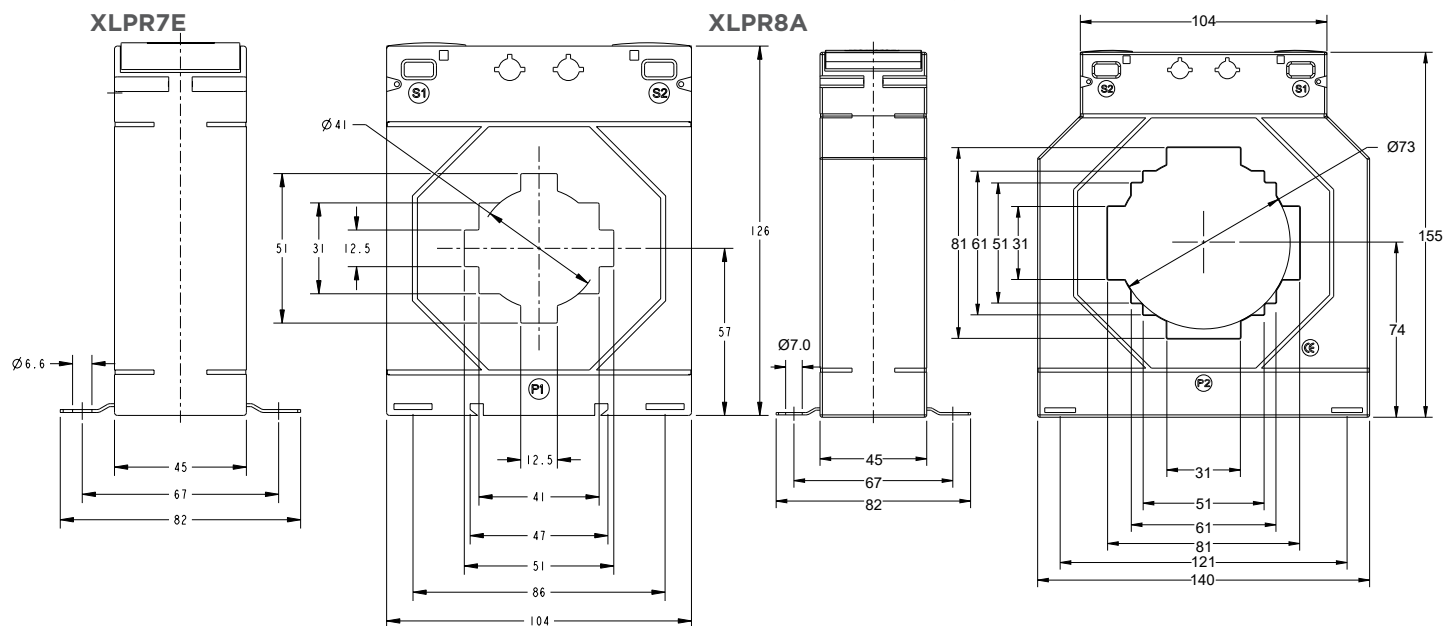
Primary Rating: 200 - 2500A

Secondary Rating: 5A as below, 1A Ratio's available

Change part number to include 1A e.g. XLPR3A-100/1A-10P5

Part number	Primary current	Accuracy			
		5P5	10P5	5P10	10P10
XLPR8A-200/5A-**-	200A	5VA	5VA	2.5VA	2.5VA
XLPR8A-250/5A-**-	250A	5VA	5VA	2.5VA	2.5VA
XLPR8A-300/5A-**-	300A	7.5VA	7.5VA	3.75VA	3.75VA
XLPR8A-400/5A-**-	400A	10VA	10VA	5VA	5VA
XLPR8A-500/5A-**-	500A	10VA	10VA	5VA	5VA
XLPR8A-600/5A-**-	600A	10VA	10VA	5VA	5VA
XLPR8A-750/5A-**-	750A	10VA	10VA	5VA	5VA
XLPR8A-800/5A-**-	800A	10VA	10VA	5VA	5VA
XLPR8A-1000/5A-**-	1000A	10VA	10VA	5VA	5VA
XLPR8A-1200/5A-**-	1200A	10VA	10VA	5VA	5VA
XLPR8A-1250/5A-**-	1250A	10VA	10VA	5VA	5VA
XLPR8A-1500/5A-**-	1500A	15VA	15VA	7.5VA	7.5VA
XLPR8A-1600/5A-**-	1600A	15VA	15VA	7.5VA	7.5VA
XLPR8A-2000/5A-**-	2000A	20VA	20VA	10VA	10VA
XLPR8A-2500/5A-**-	2500A	20VA	20VA	10VA	10VA

-**Add class code to complete part number e.g. XLPR3A-100/5A-10P5



Ebony Excel Protection Current Transformers



XLPR8C

Case size: 140 mm wide x 45 mm deep x 155 mm high

Aperture: 31 x 101 mm - 51 x 81 mm - 61 x 71 mm - Ø 86mm

Primary Rating: 250 - 3000A

Secondary Rating: 5A as below, 1A Ratio's available

Change part number to incorporate 1A e.g. XLPR3A-100/1A-10P5

Part number	Primary current	Accuracy			
		5P5	10P5	5P10	10P10
XLPR8C-250/5A-**-	250A	2.5VA	2.5VA	-	-
XLPR8C-300/5A-**-	300A	2.5VA	2.5VA	-	-
XLPR8C-400/5A-**-	400A	3.75VA	3.75VA	-	-
XLPR8C-500/5A-**-	500A	5VA	5VA	-	-
XLPR8C-600/5A-**-	600A	5VA	5VA	1VA	1VA
XLPR8C-750/5A-**-	750A	7.5VA	7.5VA	1VA	1VA
XLPR8C-800/5A-**-	800A	7.5VA	7.5VA	1VA	1VA
XLPR8C-1000/5A-**-	1000A	10VA	10VA	1VA	1VA
XLPR8C-1200/5A-**-	1200A	10VA	10VA	1VA	1VA
XLPR8C-1250/5A-**-	1250A	10VA	10VA	1VA	1VA
XLPR8C-1500/5A-**-	1500A	10VA	10VA	1.25VA	1.25VA
XLPR8C-1600/5A-**-	1600A	10VA	10VA	1.25VA	1.25VA
XLPR8C-2000/5A-**-	2000A	10VA	10VA	1.25VA	1.25VA
XLPR8C-2500/5A-**-	2500A	10VA	10VA	1.25VA	1.25VA
XLPR8C-3000/5A-**-	3000A	10VA	10VA	1.25VA	1.25VA

-**Add class code to complete part number e.g. XLPR3A-100/5A-10P5

XLPR8D MODEL

Case size: 140 mm wide x 45 mm deep x 155 mm high

Aperture: 61 x 12.5 mm, 51 x 31 mm, 41 x 41 mm - Ø 54mm

Primary Rating: 200 - 2000A

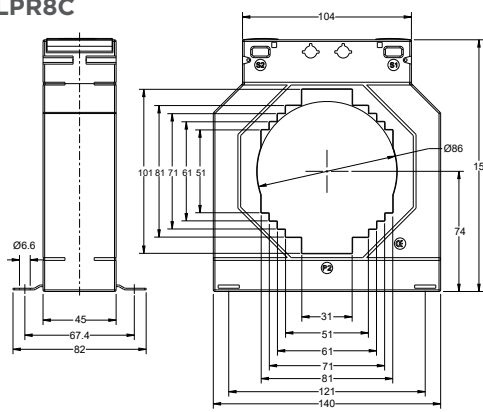
Secondary Rating: 5A as below, 1A Ratio's available

Change part number to incorporate 1A e.g. XLPR3A-100/1A-10P5

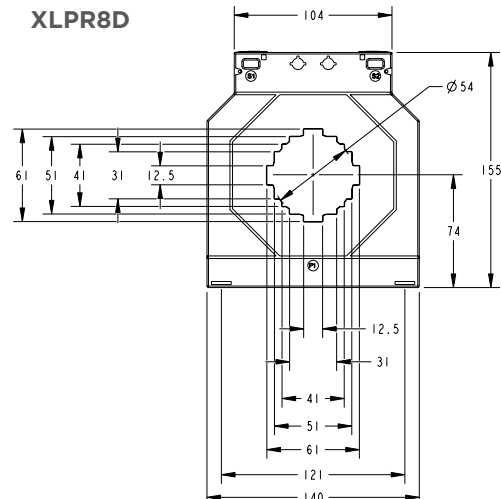
Part number	Primary current	Accuracy			
		5P5	10P5	5P10	10P10
XLPR8D-200/5A-**-	200A	7.5VA	7.5VA	2.5VA	2.5VA
XLPR8D-250/5A-**-	250A	7.5VA	7.5VA	2.5VA	2.5VA
XLPR8D-300/5A-**-	300A	10VA	10VA	3.75VA	3.75VA
XLPR8D-400/5A-**-	400A	10VA	10VA	5VA	5VA
XLPR8D-500/5A-**-	500A	10VA	10VA	5VA	5VA
XLPR8D-600/5A-**-	600A	12.5VA	12.5VA	5VA	5VA
XLPR8D-750/5A-**-	750A	12.5VA	12.5VA	5VA	5VA
XLPR8D-800/5A-**-	800A	12.5VA	12.5VA	5VA	5VA
XLPR8D-1000/5A-**-	1000A	12.5VA	12.5VA	7.5VA	7.5VA
XLPR8D-1200/5A-**-	1200A	12.5VA	12.5VA	7.5VA	7.5VA
XLPR8D-1250/5A-**-	1250A	12.5VA	12.5VA	7.5VA	7.5VA
XLPR8D-1500/5A-**-	1500A	15VA	15VA	10VA	10VA
XLPR8D-1600/5A-**-	1600A	15VA	15VA	10VA	10VA
XLPR8D-2000/5A-**-	2000A	20VA	20VA	12.5VA	12.5VA

-**Add class code to complete part number e.g. XLPR3A-100/5A-10P5

XLPR8C



XLPR8D



Busbar and Mounting feet fixings are supplied as standard.
DIN Rail Mounting Adapters available - Part Number XL-DRBK-3

Ebony Excel Protection Current Transformers



XLPR10A MODEL

Case size: 225 mm wide x 50 mm deep x 206 mm high

Aperture: 125 x 93 mm

Primary Rating: 600 - 5000A

Secondary Rating: 5A as below, 1A Ratio's available

Change part number to incorporate 1A e.g. XLPR3A-100/1A-10P5

Part number	Primary current	Accuracy			
		5P5	10P5	5P10	10P10
XLPR10A-600/5A-**-	600A	5VA	5VA	-	-
XLPR10A-750/5A-**-	750A	5VA	10VA	-	-
XLPR10A-1000/5A-**-	1000A	10VA	10VA	-	-
XLPR10A-1200/5A-**-	1200A	10VA	15VA	1.5VA	2.5VA
XLPR10A-1250/5A-**-	1250A	10VA	15VA	1.5VA	2.5VA
XLPR10A-1500/5A-**-	1500A	15VA	15VA	2.5VA	2.5VA
XLPR10A-1600/5A-**-	1600A	15VA	15VA	2.5VA	2.5VA
XLPR10A-2000/5A-**-	2000A	15VA	15VA	3.75VA	5VA
XLPR10A-2500/5A-**-	2500A	15VA	15VA	5VA	7.5VA
XLPR10A-3000/5A-**-	3000A	15VA	20VA	5VA	7.5VA
XLPR10A-4000/5A-**-	4000A	15VA	20VA	5VA	7.5VA
XLPR10A-5000/5A-**-	5000A	20VA	20VA	5VA	10VA

-**Add class code to complete part number e.g. XLPR3A-100/5A-10P5



XLPR10B MODEL

Case size: 225 mm wide x 50 mm deep x 206 mm high

Aperture: 167 x 66 mm

Primary Rating: 1000 - 6000A

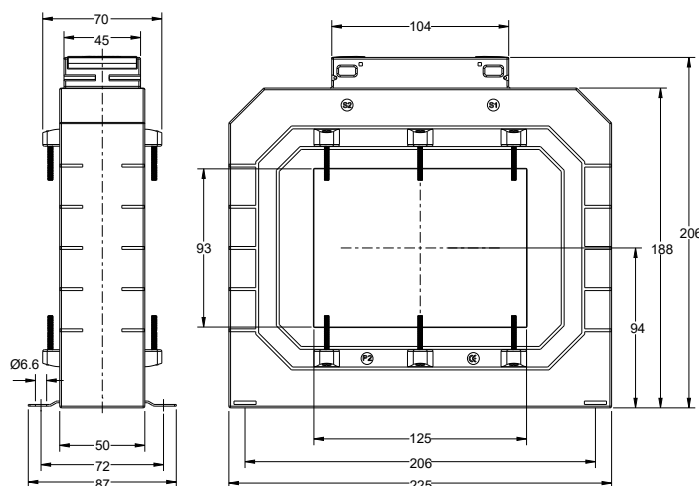
Secondary Rating: 5A as below, 1A Ratio's available

Change part number to incorporate 1A e.g. XLPR3A-100/1A-10P5

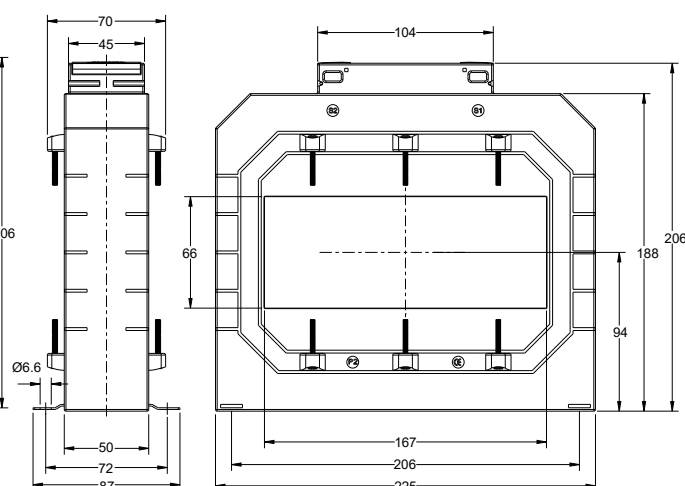
Part number	Primary current	Accuracy			
		5P5	10P5	5P10	10P10
XLPR10B-1000/5A-**-	1000A	5VA	5VA	-	-
XLPR10B-1200/5A-**-	1200A	5VA	7.5VA	1.5VA	2.5VA
XLPR10B-1250/5A-**-	1250A	5VA	7.5VA	1.5VA	2.5VA
XLPR10B-1500/5A-**-	1500A	5VA	7.5VA	2.5VA	3.75VA
XLPR10B-1600/5A-**-	1600A	5VA	7.5VA	2.5VA	3.75VA
XLPR10B-2000/5A-**-	2000A	7.5VA	12.5VA	3.75VA	5VA
XLPR10B-2500/5A-**-	2500A	10VA	15VA	3.75VA	7.5VA
XLPR10B-3000/5A-**-	3000A	15VA	20VA	7.5VA	10VA
XLPR10B-4000/5A-**-	4000A	20VA	20VA	7.5VA	12.5VA
XLPR10B-5000/5A-**-	5000A	20VA	20VA	7.5VA	12.5VA
XLPR10B-6000/5A-**-	6000A	20VA	20VA	7.5VA	12.5VA

-**Add class code to complete part number e.g. XLPR3A-100/5A-10P5

XLPR10A



XLPR10B



Ebony Excel Protection Current Transformers



XLPR10C MODEL

Case size: 225 mm wide x 50 mm deep x 206 mm high

Aperture: 61 x 31 mm - Ø 42.5mm

Primary Rating: 100 - 2000A

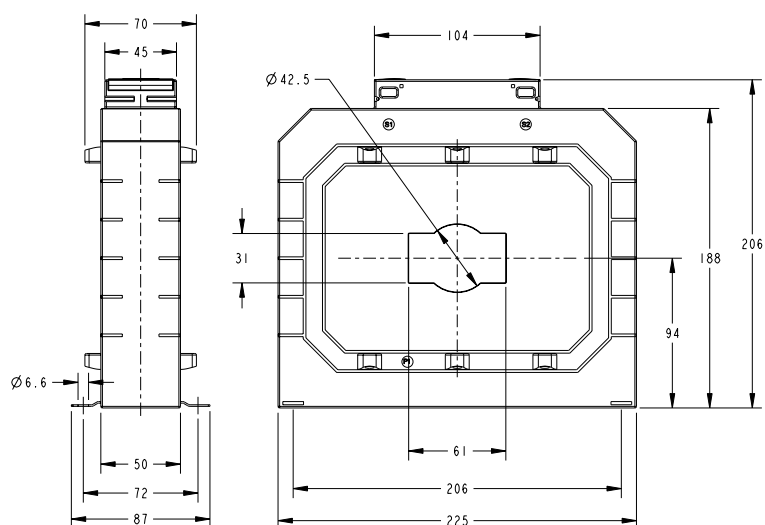
Secondary Rating: 5A as below, 1A Ratio's available

Change part number to incorporate 1A e.g. XLPR3A-100/1A-10P5

Model type	Primary current	Accuracy			
		5P5	10P5	5P10	10P10
XLPR10C-100/5A-**-	100A	10VA	10VA	-	-
XLPR10C-150/5A-**-	150A	10VA	15VA	5VA	-
XLPR10C-200/5A-**-	200A	10VA	15VA	7.5VA	10VA
XLPR10C-250/5A-**-	250A	15VA	15VA	10VA	15VA
XLPR10C-300/5A-**-	300A	15VA	15VA	10VA	15VA
XLPR10C-400/5A-**-	400A	15VA	15VA	15VA	15VA
XLPR10C-500/5A-**-	500A	15VA	15VA	15VA	15VA
XLPR10C-600/5A-**-	600A	15VA	15VA	15VA	15VA
XLPR10C-750/5A-**-	750A	15VA	15VA	15VA	15VA
XLPR10C-800/5A-**-	800A	15VA	15VA	15VA	15VA
XLPR10C-1000/5A-**-	1000A	15VA	15VA	15VA	15VA
XLPR10C-1200/5A-**-	1200A	15VA	15VA	15VA	15VA
XLPR10C-1250/5A-**-	1250A	15VA	15VA	15VA	15VA
XLPR10C-1500/5A-**-	1500A	15VA	15VA	15VA	15VA
XLPR10C-2000/5A-**-	2000A	15VA	15VA	15VA	15VA

-**Add class code to complete part number e.g. XLPR3A-100/5A-10P5

XLPR10C



Ebony Excel Protection Current Transformers

	XL3 model		XL4 model		XL5 model		XL7 model		
	XLPR3A	XLPR3B	XLPR4A	XLPR4C	XLPR5A	XLPR5B	XLPR7A	XLPR7D	XLPR7E
Inside Dia Ø (mm)	22.5	-	20.4	35	36	46	54	30	41
Busbars (mm)	-	-	-	-	-	-	60 X 10	31 X 11	51 X 12.5
	-	20 X 10	15 x 15	40 X 10	40 X 10	50 X 10	50 X 30	26 X 26	41 X 31
	-	15 X 15	20 X 10	30 X 30	30 X 30	40 X 30	40 X 40		
Height (mm)	78	78	98	98	110	110	126	126	126
Width (mm)	62	62	74	74	86	86	104	104	104
Depth (mm)	40	40	45	45	45	45	45	45	45
With additional DIN rail mounting kit	✓	✓	✓	✓	✓	✓	✓	✓	✓
Panel or Wall Mounting	✓	✓	✓	✓	✓	✓	✓	✓	✓
Busbar Mounting	-	✓	✓	✓	✓	✓	✓	✓	✓
Terminal Cover	✓	✓	✓	✓	✓	✓	✓	✓	✓
Primary Current	100A→300A	100A→200A	200A→400A	120A→750A	50A→1000A	100A→1250A	100A→1600A	50A→600A	150A→1000A
Max screw torque setting (Nm)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75

	XL8 model			XL10 model		
	XLPR8A	XLPR8C	XLPR8D	XLPR10A	XLPR10B	XLPR10C
Inside Dia Ø (mm)	73	86	54	-	-	42.5
Busbars (mm)	-	30 X 100	61 X 12.5	-	-	61 X 31
	80 X 30	50 X 80	51 X 31	125 X 90	167 X 66	
	60 X 50	60 X 70	41 X 41	-	-	
Height (mm)	155	155	155	206	206	206
Width (mm)	140	140	140	225	225	225
Depth (mm)	45	45	45	50	50	50
With additional DIN rail mounting kit	-	-		-	-	
Panel or Wall Mounting	✓	✓	✓	✓	✓	✓
Busbar Mounting	✓	✓	✓	✓	✓	✓
Terminal Cover	✓	✓	✓	✓	✓	✓
Primary Current	200A→2000A	200A→3000A	200A→2000A	600A→6000A	1000A→7500A	200A→2000A
Max screw torque setting (Nm)	0.75	0.75	0.75	0.75	0.75	0.75

Ebony Excel Protection Current Transformers

Accessories

Busbar Mounting Kits are supplied as standard with each Current Transformer.

The kit contains a selection of the below items based on what is required for each individual Current Transformer.

Busbar Mounting Kit Items			
M4 Busbar mounting Screws		Swivels	
Push in metal feet		Shoe for M4 Busbar mounting Screws	

Extra Busbar Mounting Kits are available to order, please see the below table

Current Transformer Model Type	Mounting Kit Order Code	Items in each Mounting Kit
XLPR3A, XLPR3B, XLPR4A, XLPR5A, XLPR5B	XL-KIT-003	2 x Busbar mounting screws M4 x 45mm 2 x Push in metal feet 2 x Swivels 2 x Shoe for self tapping M4 screws
XLPR7A, XLPR7D, XLPR7E	XL-KIT-005	4 x Busbar mounting screws M4 x 45mm 2 x Push in metal feet 2 x Swivels 4 x Shoe for self tapping M4 screws
XLPR8A, XLPR8C, XLPR8D	XL-KIT-006	4 x Busbar mounting screws M4 x 75mm 2 x Push in metal feet 4 x Swivels 4 x Shoe for self tapping M4 screws
XLPR10A, XLPR10B, XLPR10C	XL-KIT-008	6 x Busbar mounting screws M4 x 75mm 2 x Push in metal feet 6 x Shoe for self tapping M4 screws

DIN Rail Mounting Adapters (available seperately)

Current Transformer Model Type	Order Code	
XLPR3A, XLPR3B, XLPR4A, XLPR4C, XLPR5A, XLPR5B XLPR7A, XLPR7D, XLPR7E	XL-DRBRK-3	

Ebony Excel Protection Current Transformers

Accuracy Class:- A designation assigned to a current transformer the errors of which remain within specified limit under prescribed conditions of use.

Rated Burden:- The impedance of the secondary circuit on which the accuracy requirements are based. It is usually expressed as apparent power (in VA), at the rated secondary current and at a specified power factor.

Rated Output:- The value of the apparent power (in volt-amperes at a specified power factor) which the current transformer is intended to supply to the secondary circuit at the rated secondary current and with rated burden connected to it.

Highest System Voltage:- The highest rms line to line voltage which can be sustained under normal operating conditions at any time and at any point on the system. It excludes temporary voltage variations due to fault condition and the sudden disconnection of large loads.

Rated Insulation Level:- That combination of voltage values (power frequency and lightning impulse, or where applicable, lightning and switching impulse) which characterizes the insulation of a transformer with regard to its capability to withstand by dielectric stresses. For low voltage transformer the test voltage 4kV, at power-frequency, applied during 1 minute.

Rated Short Time Thermal Current (I_{th}):- The RMS value of the primary current which the current transformer will withstand for a rated time, with their secondary winding short circuits without suffering harmful effects.

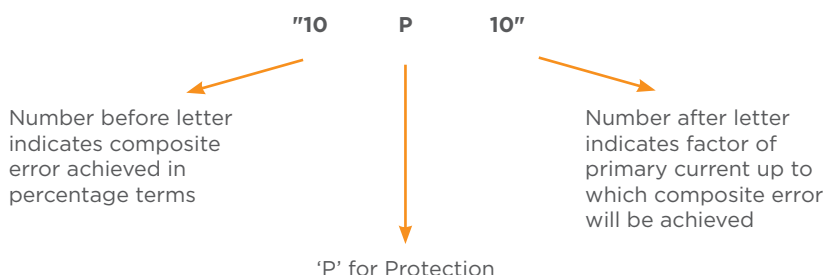
Rated Dynamic Current (I_{dyn}):- The peak value of the primary current which a current transformer will withstand, without being damaged electrically for mechanically by the resulting electromagnetic forces, the secondary winding being short-circuited.

Rated Continuous Thermal Current:- The value of current which can be permitted to flow continuously in the primary winding, the secondary windings being connected to the rated burdens, without the temperature rise exceeding the specified values.

Instrument Security Factor (ISF):- Instrument Security Factor is the ratio of Instrument Limit Primary Current to the rated Primary Current. Instrument Limit Current of a metering Current Transformer is the maximum value of primary current beyond which Current Transformer core becomes saturated. Instrument Security Factor of CT is the significant factor for choosing the metering Instruments which to be connected to the secondary of the CT. Security or Safety of the measuring unit is better, if ISF is low.

IEC61869-2 commonly define protection current transformers in terms of composite error at an accuracy limit factor. In simple terms this means how accurate the current transformer will remain when the primary current flowing is many times higher than in normal conditions i.e. in a fault situation.

The classification of protection current transformers follows the following simple formula:



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