FICO HI-TECH (PVT) LIMITED

power of applied intelligence

COMPANY CATALOGUE

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FICO
SINCE 1952

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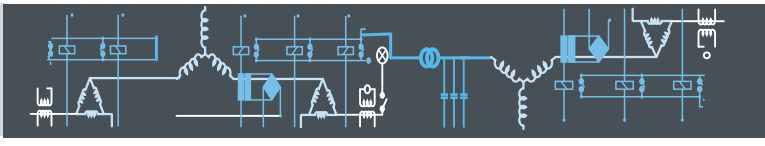
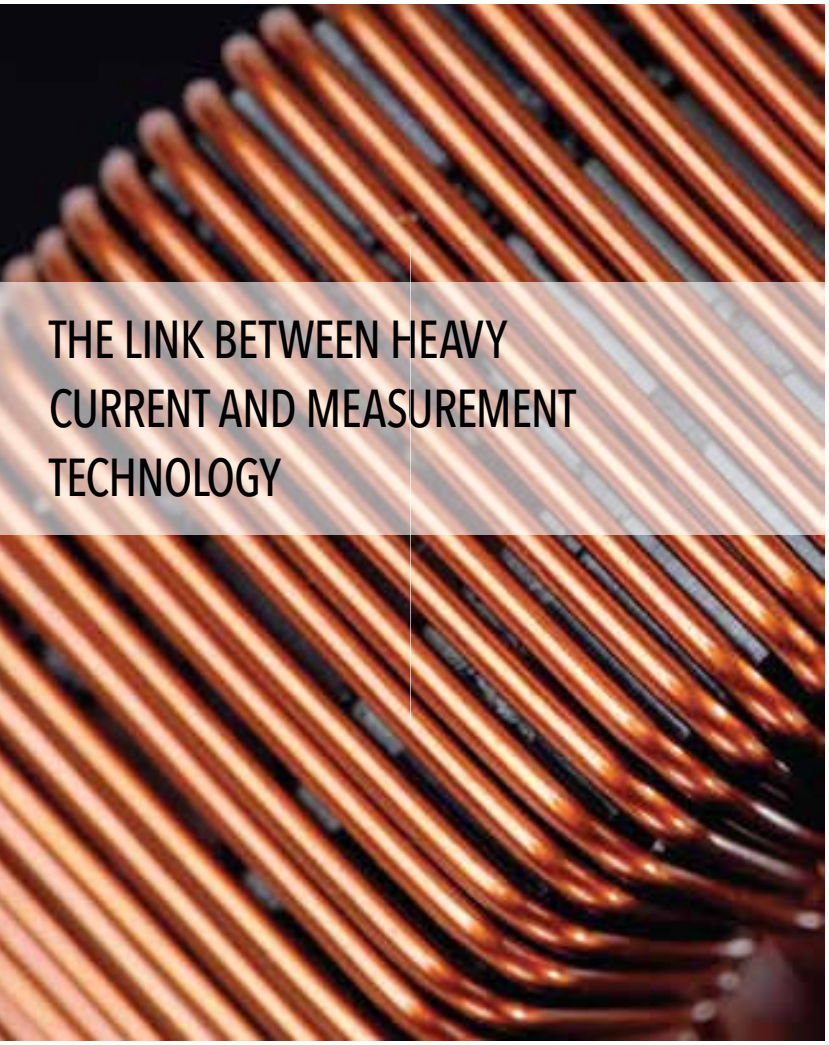


CURRENT TRANSFORMER
(low voltage)

INTRODUCTION

Current Transformer was used to change the high primary current to low secondary current. Connected with the Panel Meteror Relay, they can help to measure the current or protect the equipments which were connected to the high voltage line

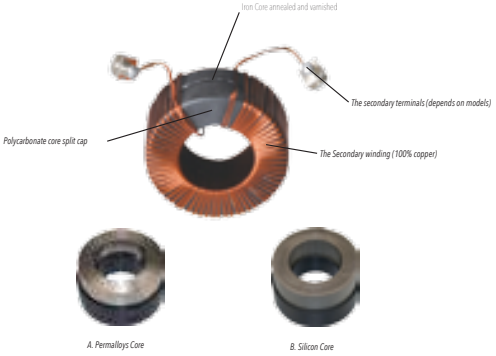


CT consist of primary winding, secondary winding, magnetic core and insulated body. The high-grade silicon is annealed, varnished then insulated with polycarbonate core caps. The secondary winding is toroidally wound by high precision semi-automatic machinery. For the tape wound ring type current transformer, the PEW coated windings are thenthe PEW coated windings are then covered with elephantite paper, varnished and double -tapped with PVS tapes. For the encapsulated type current transformer, the windings are enclosed in a compact and heat resistant split cap.

Installed current transformer in the field. The mounting assembly.can be shown for the reference.

Need to open the bar and insert the current transformer.

The right current transformer for every application



Anyone wanting to record energy consumption, must measure currents. This is done by using a current transformer to measure the magnetic field created by the current. In principle, the current transformer is similar to a power transformer. The primary circuit is formed by the line to be measured, the connection to the measurement device forms the secondary circuit. As a result, on the one hand there is a galvanic seperation between the measurement device and the current circuit to be measured and on the other hand, the size of the current can be transformed down by a defined ratio to a size suitable for the measurement device:

For example, a high-power 320 Amp line can be reduced by means of a 500:5 transformer to more convenient 3.2 Amps. At the same time, the measurement equipment is protected by the so-called saturation effect in the event of a fault, e.g. with a short-circuit:This phenomenon means that the magnetisation of a material through a magnetic field only rises until it reaches saturation point. The current in the secondary circuit is thus automatically limited through the physical characteristics of the current transformer.

The appropriate combination of measurement device and transformer is critical for the quality and accuracy of a measurement: As with measurement devices, there are permissible nominal currents and accuracy classes with transformers too, the knowledge of which is essential for correct measurement.

made in Pakistan

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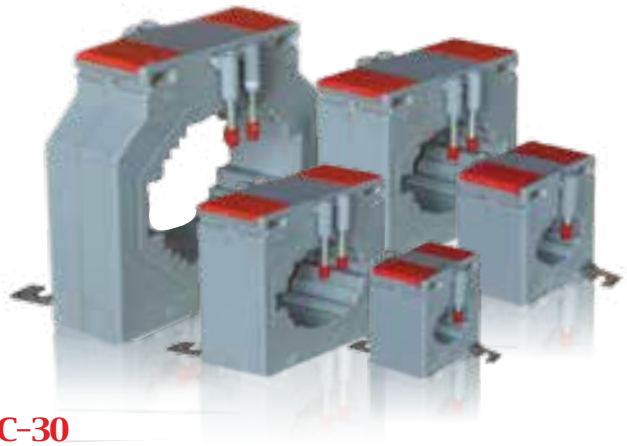
Current transformers - DEWA & SEC approved series
INNOVATIVE MODEL



ILC-30

Primary current (i)	CL(0.5)	CL(1)	CL(3)	Primary conductor (bar)	Primary conductor (round)
30A	-	-	-	20mm x 30mm	25MM
60A	-	-	-	20mm x 30mm	25MM
100A	1VA	1VA	1VA	20mm x 30mm	25MM
150A	1.5VA	1.5VA	1.5VA	20mm x 30mm	25MM
200A	2.5VA	2.5va	2.5VA	20mm x 30mm	25MM

ILC-40

Primary current (i)	CL (0.5)	CL (1)	CL (3)	Primary conductor (bar)	Primary conductor (round)
30A	-	-	1VA	40mm x 10mm	30MM
60A	-	1VA	1.5VA	40mm x 10mm	30MM
100A	1VA	1.5VA	2.5VA	40mm x 10mm	30MM
150A	1.5VA	2.5va	3.75VA	40mm x 10mm	30MM
200A	2.5VA	3VA	5VA	40mm x 10mm	30MM
300A	5VA	5va	7.5VA	40mm x 10mm	30MM
400A	7.5VA	7.5va	10VA	40mm x 10mm	30MM

ILC-60

Primary current (i)	CL(0.5)	CL(1)	CL(3)	Primary conductor (bar)	Primary conductor (round)
100A	-	-	2.5VA	60mm x 10mm, 50mmx30mm	50mm
200A	1VA	2.5va	3.75VA	60mm x 10mm, 50mmx30mm	50mm
300A	1.5VA	3VA	5VA	60mm x 10mm, 50mmx30mm	50mm
400A	2.5VA	5va	7.5VA	60mm x 10mm, 50mmx30mm	50mm
600A	5VA	7.5va	10VA	60mm x 10mm, 50mmx30mm	50mm
800A	7.5VA	10va	15VA	60mm x 10mm, 50mmx30mm	50mm

ILC-80

Primary current (i)	CL(0.5)	CL(1)	CL(3)	Primary conductor (bar)	Primary conductor (round)
200A	1.5VA	2.5va	5VA	80mm x 10mm, 60mmx30mm	65mm
300A	2.5VA	5VA	7.5VA	80mm x 10mm, 60mmx30mm	65mm
400A	5VA	7.5va	10VA	80mm x 10mm, 60mmx30mm	65mm
600A	7.5VA	10va	15VA	80mm x 10mm, 60mmx30mm	65mm
800A	10VA	12.5va	25VA	80mm x 10mm, 60mmx30mm	65mm
1200A	12.5VA	15va	30VA	80mm x 10mm, 60mmx30mm	65mm

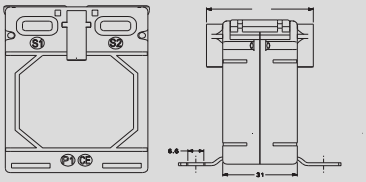
ILC-100

Primary current (i)	CL(0.5)	CL(1)	CL(3)	Primary conductor (bar)	Primary conductor (round)
1000A	5VA	7.5VA	10VA	100mm x 30mm, 80mmx50mm	80mm
1200A	7.5VA	10VA	15VA	100mm x 30mm, 80mmx50mm	80mm
1600A	10VA	15VA	25VA	100mm x 30mm, 80mmx50mm	80mm
2000A	15VA	25VA	30va	100mm x 30mm, 80mmx50mm	80mm
2400A	25VA	30va	40VA	100mm x 30mm, 80mmx50mm	80mm

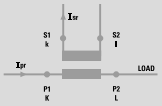
Technical features

SPECIFICATIONS	
Reference specification	EN/IEC 61869-1, 61869-2
Rated primary current Ipr:	1600A
Working frequency:	47…63Hz
Rated continuous thermal current Icth:	100% Ipr
Rated short-time thermal current Ith:	< 60Ipr
Rated dynamic current Idyn :	2,5Ith
Instrument security factor (FS):	≤ 5
Rated secondary current Isr :	5
Max. power dissipation	≤ 20W
Allowed max cable or busbar temperature:	125°C
INSULATION REQUIREMENTS	
Type	Dry transformer, air insulation
Highest voltage for equipment Um:	0.72kV r.m.s.
Rated insulation level:	3kV r.m.s. 50Hz/1min
ENVIRONMENTAL CONDITIONS	
Nominal temperature range:	-25…50°C
Limit temperature range for storage:	-40…85°C
Relative humidity:	≤ 85%
Suitable for tropical climates	yes
CONNECTION	
Primary winding:	Passing bus bar
Secondary winding:	tightening by nut M4
MECHANICAL FEATURES	
Housing material:	self extinguishing polycarbonate
Mounting:	screw type on bar
Weight:	1150 gr

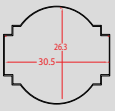
Dimensions



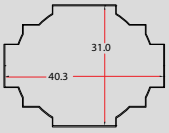
Wiring diagrams



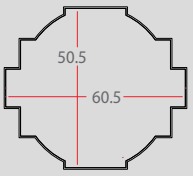
MODEL	A (mm)	B (mm)	C (mm)
ILC 30	78	50	32
ILC 40	78	62	40
ILC 60	110	86	45
ILC 80	128	104	45
ILC 100	155	140	62



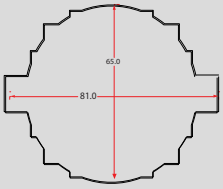
ILC-30



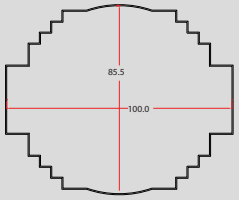
ILC-40



ILC-60



ILC-80



ILC-100

NOTE : On request orders for types different from table are accepted. 1A Secondary available

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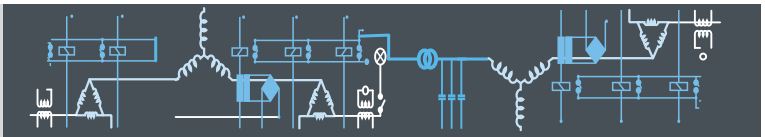


FICO
SINCE 1952

Current transformers - SDH & TAB series
RECTANGULAR MODEL

CE ISO 9001:2015

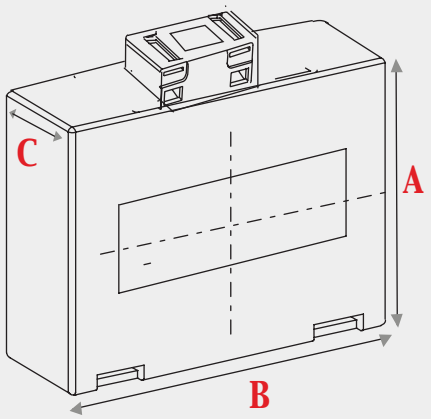
Cable/passing bar single-phase current transformers

MODEL (INNER WINDOW SIZE)	Ip (primary)	Is (secondary)	Class 1	Class 0.5	Protection class 5p10
SDH - 130 X 80	3000/5A	5A/1A	10VA - 15VA	7.5VA-10VA	10VA - for Is=5A
SDH - 130 X 80	4000/5A	5A/1A	15VA - 22.5VA	10VA - 15VA	10VA - for Is=5A
SDH - 130 X 80	5000/5A	5A/1A	15VA - 30VA	15VA-22.5VA	10VA - for Is=5A
SDH - 130 X 80	6000/5A	5A/1A	15VA - 45VA	15VA-30VA	10VA - for Is=5A
SDH - 130 X 80	8000/5A	5A/1A	30VA - 60VA	30VA-45VA	10VA - for Is=5A
SDH - 150 X 110	4000/5A	5A/1A	10VA - 15VA	7.5VA-10VA	10VA - for Is=5A
SDH - 150 X 110	5000/5A	5A/1A	15VA - 22.5VA	10VA - 15VA	10VA - for Is=5A
SDH - 150 X 110	6000/5A	5A/1A	15VA - 30VA	15VA-22.5VA	10VA - for Is=5A
SDH - 150 X 110	8000/5A	5A/1A	15VA - 45VA	15VA-30VA	10VA - for Is=5A
SDH - 150 X 110	10,000/5A	5A/1A	30VA - 60VA	30VA-45VA	10VA - for Is=5A
SDH - 50 X 150	3000A -10000A	5A/1A	10VA - 15VA	7.5VA-10VA	10VA - for Is=5A
SDH - 100 X 265	3000A -10000A	5A/1A	15VA - 22.5VA	10VA - 15VA	10VA - for Is=5A
SDH - 65 X 265	3000A -10000A	5A/1A	10VA - 15VA	7.5VA-10VA	10VA - for Is=5A
TAB SERIES	**Ip (primary)**	**Is (secondary)**	**Class 1**	**Class 0.5**	**Protection class 5p10**
TAB 3 - 60 X 20	8000/5A	5A/1A	10VA - 15VA	7.5VA-10VA	10VA - for Is=5A
TAB 3 - 60 X 20	3000/5A	5A/1A	15VA - 22.5VA	10VA - 15VA	10VA - for Is=5A
TAB 3 - 60 X 20	4000/5A	5A/1A	10VA - 15VA	7.5VA-10VA	10VA - for Is=5A
TAB 3 - 60 X 20	5000/5A	5A/1A	15VA - 22.5VA	10VA - 15VA	10VA - for Is=5A
TAB 3 - 60 X 20	6000/5A	5A/1A	10VA - 15VA	7.5VA-10VA	10VA - for Is=5A
TAB 3 - 60 X 20	4000/5A	5A/1A	15VA - 22.5VA	10VA - 15VA	10VA - for Is=5A
TAB 3 - 60 X 20	5000/5A	5A/1A	10VA - 15VA	7.5VA-10VA	10VA - for Is=5A
TAB 3 - 60 X 20	6000/5A	5A/1A	15VA - 22.5VA	10VA - 15VA	10VA - for Is=5A
TAB 3 - 60 X 20	4000/5A	5A/1A	10VA - 15VA	7.5VA-10VA	10VA - for Is=5A
TAB 3 - 60 X 20	5000/5A	5A/1A	15VA - 22.5VA	10VA - 15VA	10VA - for Is=5A
TAB 3 - 60 X 20	6000/5A	5A/1A	10VA - 15VA	7.5VA-10VA	10VA - for Is=5A
TAB 3 - 60 X 20	4000/5A	5A/1A	15VA - 22.5VA	10VA - 15VA	10VA - for Is=5A
TAB 3 - 60 X 20	5000/5A	5A/1A	10VA - 15VA	7.5VA-10VA	10VA - for Is=5A
TAB 3 - 60 X 20	6000/5A	5A/1A	15VA - 22.5VA	10VA - 15VA	10VA - for Is=5A
TAB 3 - 60 X 20	4000/5A	5A/1A	10VA - 15VA	7.5VA-10VA	10VA - for Is=5A
TAB 3 - 60 X 20	5000/5A	5A/1A	15VA - 22.5VA	10VA - 15VA	10VA - for Is=5A
TAB 3 - 60 X 20	6000/5A	5A/1A	10VA - 15VA	7.5VA-10VA	10VA - for Is=5A

Technical features

SPECIFICATIONS	
Reference specification	EN/IEC 61869-1, 61869-2
Rated primary current Ipr:	100A TO 10,000A
Working frequency:	47…63Hz
Rated continuous thermal current Icth:	100% Ipr
Rated short-time thermal current Ith:	< 60Ipr
Rated dynamic current Idyn :	2,5Ith
Instrument security factor (FS):	≤ 5
Rated secondary current Isr :	5
Max. power dissipation	≤ 20W
Allowed max cable or busbar temperature:	125°C
INSULATION REQUIREMENTS	
Type	Dry transformer, air insulation
Highest voltage for equipment Um:	0.72kV r.m.s.
Rated insulation level:	3kV r.m.s. 50Hz/1min
ENVIRONMENTAL CONDITIONS	
Nominal temperature range:	-25…50°C
Limit temperature range for storage:	-40…85°C
Relative humidity:	≤ 85%
Suitable for tropical climates	yes
CONNECTION	
Primary winding:	Passing bus bar
Secondary winding:	tightening by nut M4
MECHANICAL FEATURES	
Housing material:	self extinguishing polycarbonate
Mounting:	screw type on bar
Weight:	-

Dimensions (outer)



Model	A (mm)	B (mm)	C (mm)
SDH 80X130	180	190	50
SDH 110X150	220	204	60
SDH 100X265	200	300	65
SDH 50X155	145	200	50
SDH 65X225	170	270	55
TLC-3	116	100	50
TLC-4	100	120	45
TLC-5	135	170	50

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FICO
SINCE 1952

Current transformers - ELC SERIES
ECONOMICAL MODEL

CE ISO 9001:2015

ELC – 20

I (pri)	I (sec)	Cl:1	Primary conductor	Round conductor
30A	5A	1VA PT1	-	20MM
60A	5A	1.5VA PT1	-	20MM

ELC – 30 s

I (pri)	I (sec)	Cl:1	Primary conductor	Round conductor
30A	5A	2.5VA - PT 4	30mmx10mm	30mm
60A	5A	2.5VA - pt 2	30mmx10mm	30mm
100A	5A	2.5VA	30mmx10mm	30mm
150A	5A	2.5VA	30mmx10mm	30mm
200A	5A	2.5VA	30mmx10mm	30mm
300A	5A	2.5VA	30mmx10mm	30mm
400A	5A	2.5VA	30mmx10mm	30mm

ELC – 40 s

I (pri)	I (sec)	Cl:1	Primary conductor	Round conductor
30A	5A	2.5VA - PT 4	40mmx10mm	30mm
60A	5A	2.5VA - pt 2	40mmx10mm	30mm
100A	5A	2.5VA	40mmx10mm	30mm
150A	5A	2.5VA	40mmx10mm	30mm
200A	5A	2.5VA	40mmx10mm	30mm
300A	5A	2.5VA	40mmx10mm	30mm
400A	5A	2.5VA	40mmx10mm	30mm

ELC – 30

I (pri)	I (sec)	Cl:1	Primary conductor	Round conductor
30A	5A	5VA (PT-4)	30mmx10mm	30mm
60A	5A	5VA (PT-2)	30mmx10mm	30mm
100A	5A	5VA	30mmx10mm	30mm
150A	5A	5VA	30mmx10mm	30mm
200A	5A	5VA	30mmx10mm	30mm
300A	5A	5VA	30mmx10mm	30mm
400A	5A	5VA	30mmx10mm	30mm

ELC – 40

I (pri)	I (sec)	Cl:1	Primary conductor	Round conductor
30A	5A	5VA (PT-4)	40mmx10mm	30mm
60A	5A	5VA (PT-2)	40mmx10mm	30mm
100A	5A	5VA	40mmx10mm	30mm
150A	5A	5VA	40mmx10mm	30mm
200A	5A	5VA	40mmx10mm	30mm
300A	5A	5VA	40mmx10mm	30mm
400A	5A	5VA	40mmx10mm	30mm

ELC – 60

I (pri)	I (sec)	Cl:1	Primary conductor	Round conductor
600A	5A	10VA	60mmx10mm, 50mmx30mm	50mm
800A	5A	10VA	60mmx10mm, 50mmx30mm	50mm
1000A	5A	10VA	60mmx10mm, 50mmx30mm	50mm
1200A	5A	10VA	60mmx10mm, 50mmx30mm	50mm

ELC – 80

I (pri)	I (sec)	Cl:1	Primary conductor	Round conductor
800A	5A	10VA	80mmx10mm, 60mmx30mm	66mm
1000A	5A	10VA	80mmx10mm, 60mmx30mm	66mm
1200A	5A	10VA	80mmx10mm, 60mmx30mm	66mm
1600A	5A	10VA	80mmx10mm, 60mmx30mm	66mm

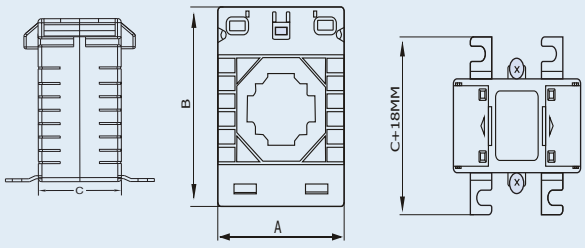
ELC – 100

I (pri)	I (sec)	Cl:1	Primary conductor	Round conductor
1000A	5A	10VA	100mmx30mm,80mmx50mm	-
1200A	5A	10VA	100mmx30mm,80mmx50mm	-
1600A	5A	10VA	100mmx30mm,80mmx50mm	-
2000A	5A	10VA	100mmx30mm,80mmx50mm	-
2400A	5A	10VA	100mmx30mm,80mmx50mm	-
3000A	5A	10VA	100mmx30mm,80mmx50mm	-
3200A	5A	10VA	100mmx30mm,80mmx50mm	-

Technical features

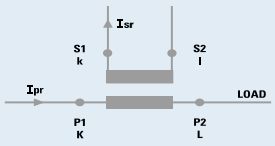
SPECIFICATIONS		
Reference specification	EN/IEC 61869-1, 61869-2	
Rated primary current Ipr:	250…2000A	300…2500A
Working frequency:	47…63Hz	
Rated continuous thermal current Icth:	100% Ipr	
Rated short-time thermal current Ith:	< 60Ipr	
Rated dynamic current Idyn :	2,5Ith	
Instrument security factor (FS):	≤ 5	
Rated secondary current Isr :	5 - 1A	
Max. power dissipation	≤ 19W	
Allowed max cable or busbar temperature:	125°C	
INSULATION REQUIREMENTS		
Type	Dry transformer, air insulation	
Highest voltage for equipment Um:	0.72kV r.m.s.	
Rated insulation level:	3kV r.m.s. 50Hz/1min	
ENVIRONMENTAL CONDITIONS		
Nominal temperature range:	-25…50°C	
Limit temperature range for storage:	-40…85°C	
Relative humidity:	≤ 85%	
Suitable for tropical climates	yes	
CONNECTION		
Primary winding:	Passing bus bar	
Secondary winding:	tightening by nut M4	
MECHANICAL FEATURES		
Housing material:	self extinguishing polycarbonate	
Mounting:	screw type on bar	
Weight:		

Dimensions ELC



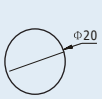
MODEL	A. (mm)	B (mm)	C (mm)
ELC-20	62	77	36
ELC-30S	80	87	41
ELC-40S	80	87	41
ELC-30	63	78	35
ELC-40	63	78	35
ELC-60	100	118	41
ELC-80	110	130	40
ELC-100	145	154	38

Wiring diagrams

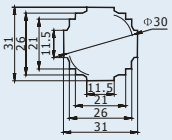


DIMENSIONAL DRAWING

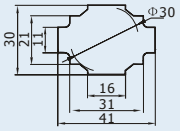
ELC – 20



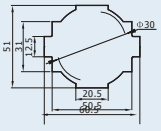
ELC – 30 & 30S



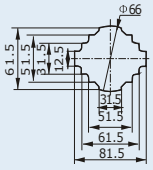
ELC – 40 & 40S



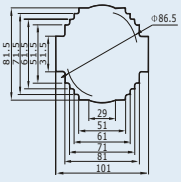
ELC – 60



ELC – 80



ELC – 100



NOTE : On request orders for types different from table are accepted. 1A Secondary available

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SINCE 1952

Current transformers - RLC series (15 VA BURDEN)
ROUND & RECTANGULAR MODEL

ISO 9001:2015

Cable/passing bar single-phase current transformers

RLC 30

I (pri)	I (sec)	Cl:1	Round conductor
30A	5A	15VA - PT 4	30mm
60A	5A	15VA - pt 2	30mm
100A	5A	15VA	30mm
150A	5A	15VA	30mm
200A	5A	15VA	30mm
250A	5A	15VA	30mm
300A	5A	15VA	30mm

RLC 50

I (pri)	I (sec)	Cl:1	Round conductor
400A	5A	15VA	50mm
500A	5A	15VA	50mm
600A	5A	15VA	50mm

RLC 65

I (pri)	I (sec)	Cl:1	Round conductor
400A	5A	15VA	65mm
500A	5A	15VA	65mm
600A	5A	15VA	65mm
800A	5A	15VA	65mm
1000A	5A	15VA	65mm
1200A	5A	15VA	65mm

RLC 80

I (pri)	I (sec)	Cl:1	PRIMARY BAR
600A	5A	15VA	80mmX50mm
800A	5A	15VA	80mmX50mm
1000A	5A	15VA	80mmX50mm
1200A	5A	15VA	80mmX50mm
1600A	5A	15VA	80mmX50mm
2000A	5A	15VA	80mmX50mm

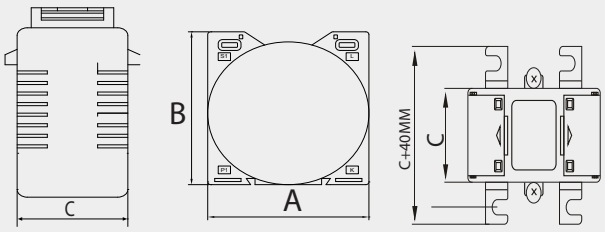
RLC 125

I (pri)	I (sec)	Cl:1	PRIMARY BAR
1200A	5A	15VA	125mmX50mm
1600A	5A	15VA	125mmX50mm
2000A	5A	15VA	125mmX50mm
2500A	5A	15VA	125mmX50mm
3000A	5A	15VA	125mmX50mm
3200A	5A	15VA	125mmX50mm
4000A	5A	15VA	125mmX50mm

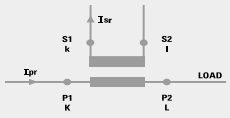
Technical features

SPECIFICATIONS	
Reference specification	EN/IEC 61869-1, 61869-2
Rated primary current Ipr:	30A TO 4000A
Working frequency:	47…63Hz
Rated continuous thermal current Icth:	100% Ipr
Rated short-time thermal current Ith:	< 60Ipr
Rated dynamic current Idyn :	2,5Ith
Instrument security factor (FS):	≤ 5
Rated secondary current Isr :	5
Max. power dissipation	≤ 20W
Allowed max cable or busbar temperature:	125°C
INSULATION REQUIREMENTS	
Type	Dry transformer, air insulation
Highest voltage for equipment Um:	0.72kV r.m.s.
Rated insulation level:	3kV r.m.s. 50Hz/1min
ENVIRONMENTAL CONDITIONS	
Nominal temperature range:	-25…50°C
Limit temperature range for storage:	-40…85°C
Relative humidity:	≤ 85%
Suitable for tropical climates	yes
CONNECTION	
Primary winding:	Passing bus bar
Secondary winding:	tightening by nut M4
MECHANICAL FEATURES	
Housing material:	self extinguishing polycarbonate
Mounting:	screw type on bar
Weight:	-

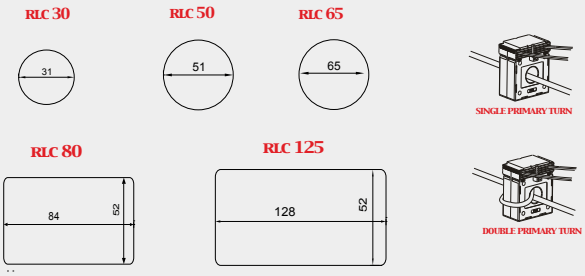
Dimensions RLC



Wiring diagrams



MODEL	A (mm)	B (mm)	C (mm)
RLC 30	92	98	55
RLC 50	92	98	55
RLC 65	106	112	55
RLC 80	142	124	55
RLC 125	186	124	55



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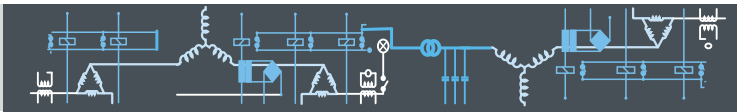


FICO

SINCE 1952

Current transformers - SLC series (10 VA BURDEN)
ROUND & RECTANGULAR MODEL

CE ISO 9001:2015

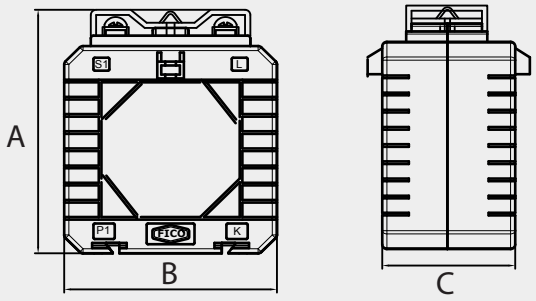
Cable/passing bar single-phase current transformers

MODEL	Ratio	PT	Class 1	ROUND CONDUCTOR MAX	BAR SIZE MAX
SLC - 30	30/5A	4	10VA	30MM	10MM X 30MM
SLC - 30	50/5A	2	10VA	30MM	10MM X 30MM
SLC - 30	60/5A	1	10VA	30MM	10MM X 30MM
SLC - 30	100/5A	1	10VA	30MM	10MM X 30MM
SLC - 30	150/5A	1	10VA	30MM	10MM X 30MM
SLC - 30	200/5A	1	10VA	30MM	10MM X 30MM
SLC - 30	300/5A	1	10VA	30MM	10MM X 30MM
SLC - 40	400/5A	1	10VA	40MM	10MM X 40MM
SLC - 40	500/5A	1	10VA	40MM	10MM X 40MM
SLC - 40	600/5A	1	10VA	40MM	10MM X 40MM
SLC - 50	400/5A	1	10VA	50MM	20MM X 50MM
SLC - 50	500/5A	1	10VA	50MM	20MM X 50MM
SLC - 50	600/5A	1	10VA	50MM	20MM X 50MM
SLC - 50	800/5A	1	10VA	50MM	20MM X 50MM
SLC - 50	1000/5A	1	10VA	50MM	20MM X 50MM
SLC - 50	1200/5A	1	10VA	50MM	20MM X 50MM
SLC - 65	600/5A	1	10VA	65MM	-
SLC - 65	800/5A	1	10VA	65MM	-
SLC - 65	1000/5A	1	10VA	65MM	-
SLC - 65	1200/5A	1	10VA	65MM	-
SLC - 65	1600/5A	1	10VA	65MM	-
SLC - 65	2000/5A	1	10VA	65MM	-
SLC - 100	1200/5A	1	10VA	-	100MM X 50MM
SLC - 100	1600/5A	1	10VA	-	100MM X 50MM
SLC - 100	2000/5A	1	10VA	-	100MM X 50MM
SLC - 125	2500/5A	1	10VA	-	125MM X 50MM
SLC - 125	3000/5A	1	10VA	-	125MM X 50MM
SLC - 125	3200/5A	1	10VA	-	125MM X 50MM
SLC - 125	4000/5A	1	10VA	-	125MM X 50MM

Technical features

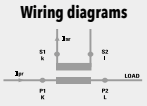
SPECIFICATIONS	
Reference specification	EN/IEC 61869-1, 61869-2
Rated primary current Ipr:	30A TO 4000A
Working frequency:	47…63Hz
Rated continuous thermal current Icth:	100% Ipr
Rated short-time thermal current Ith:	< 60Ipr
Rated dynamic current Idyn :	2,5Ith
Instrument security factor (FS):	≤ 5
Rated secondary current Isr :	5
Max. power dissipation	≤ 20W
Allowed max cable or busbar temperature:	125°C
INSULATION REQUIREMENTS	
Type	Dry transformer, air insulation
Highest voltage for equipment Um:	0.72kV r.m.s.
Rated insulation level:	3kV r.m.s. 50Hz/1min
ENVIRONMENTAL CONDITIONS	
Nominal temperature range:	-25…50°C
Limit temperature range for storage:	-40…85°C
Relative humidity:	≤ 85%
Suitable for tropical climates	yes
CONNECTION	
Primary winding:	Passing bus bar
Secondary winding:	tightening by nut M4
MECHANICAL FEATURES	
Housing material:	self extinguishing polycarbonate
Mounting:	screw type on bar
Weight:	-

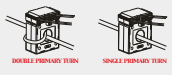
Dimensions SLC



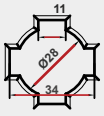
MODEL	A (mm)	B (mm)	C (mm)
SLC 30	96	80	50
SLC 40	96	80	50
SLC 50	126	104	52
SLC 65	142	120	52
SLC 100	126	142	50
SLC 125	138	170	50

Wiring diagrams

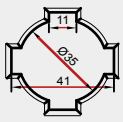




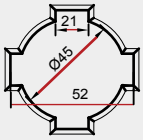
SLC 30



SLC 40

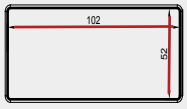


SLC 50

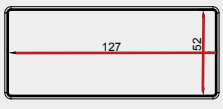


SLC 65

SLC 100



SLC 125



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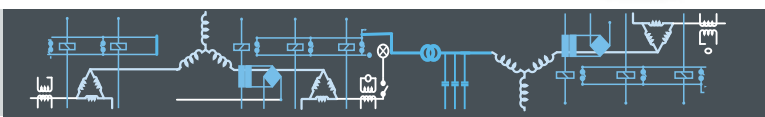


FICO
SINCE 1952

Current transformers - SUMMATION TYPE
ECONOMICAL MODEL

Device overview - summation current transformer, class 0.5				
Type	Primary current in A	Secondary current in A	Power in VA	Transformation ratio
FCT-SUM-1	5+5	5	15	1:1
FCT-SUM-2	5+5+5	5	15	1:1:1
FCT-SUM-3	5+5+5+5	5	15	1:1:1:1

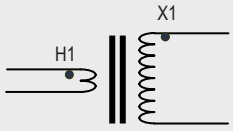
Summation current transformers enable a single electricity meter to monitor the total load across a number of supplies. Each supply is fitted with ordinary current transformers, and the secondary leads are then connected to a summation transformer. The secondary terminals of the summation transformer are then connected to the meter. The meter is thus presented with a signal which represents the total for all the circuits connected to the summation transformer. When summation transformers are used it is not possible to determine the individual contribution from each supply.

A separate summation transformer is required for each phase. For single-phase installations it is permissible to use one summation transformer so long as all the circuits are connected to the same phase..

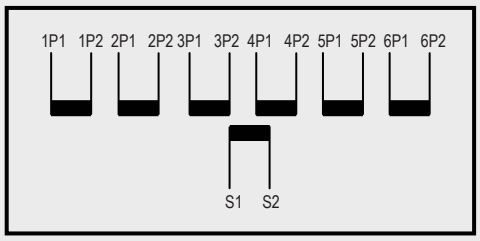
Summation transformers can be manufactured with between two and ten input circuits. It is not good practice to use a summation transformer with more inputs than the number of circuits to be metered. This is because unused circuits can introduce stray signals and can also reduce the dynamic range available to circuits that are connected. If an input to a summation transformer needs to be temporarily disconnected (during fault-finding, for example) the relevant P1 and P2 connections should be shorted together. All the input circuits must have the same ratio. The output from a summation CT with mismatched inputs (e.g. 200 + 300 + 250 : 5A) would be unpredictable and therefore unsuitable for metering.

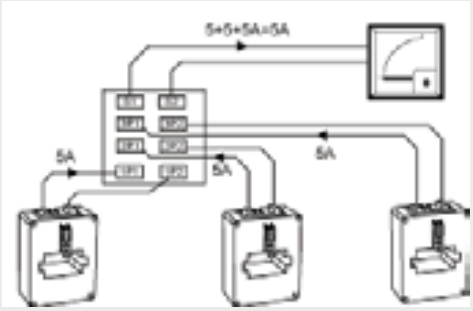
Technical features

SPECIFICATIONS	
Reference specification	EN/IEC 61869-1, 61869-2
Rated primary current Ipr:	
Working frequency:	47…63Hz
Rated continuous thermal current Icth:	100% Ipr
Rated short-time thermal current Ith:	< 60Ipr
Rated dynamic current Idyn :	2,5Ith
Instrument security factor (FS):	≤ 5
Rated secondary current Isr :	5 - 1A
Max. power dissipation	≤ 19W
Allowed max cable or busbar temperature:	125°C
INSULATION REQUIREMENTS	
Type	Dry transformer, air insulation
Highest voltage for equipment Um:	0.72kV r.m.s.
Rated insulation level:	3kV r.m.s. 50Hz/1min
ENVIRONMENTAL CONDITIONS	
Nominal temperature range:	-25…50°C
Limit temperature range for storage:	-40…85°C
Relative humidity:	≤ 85%
Suitable for tropical climates	yes
CONNECTION	
Primary winding:	
Secondary winding:	tightening by nut M4
MECHANICAL FEATURES	
Housing material:	self extinguishing polycarbonate
Mounting:	screw type on bar
Weight:	



Current transformer polarity can be defined by permanent markings (typically **H 1 – X 1**) or polarity dots.





FICO HI-TECH (PVT) LTD DATA SHEET

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FICO

SINCE 1952

Current transformers - Special category

Cable/passing bar single-phase current transformers

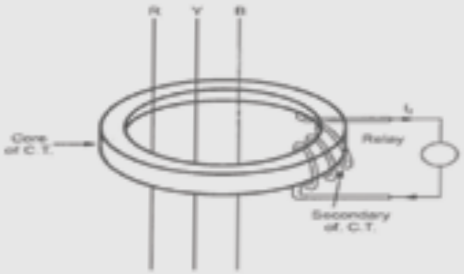
ZERO SEQUENCE CBCT CURRENT TRANSFORMER (MLC RESIN TYPE)

Zero-sequence CT is made to work with microcomputer protection device, motor protection device, and relay, as a ground fault protection set, protecting and monitoring power supply and distribution systems. Rectangular window. Mainly suitable for single or multiple bus-bar applications. High accuracy class and large burden rating. Easy installation (onto the bus-bar). For power supply and distribution systems of up to 660V.

Technical features

SPECIFICATIONS	
Reference specification	IEC60044-1; IEC 61869-2; NTC 2205; ANSI C57.13; GB1208-2006
Rated primary current Ipr:	100A TO 6000A
Working frequency:	47…63Hz
Rated continuous thermal current Icth:	100% Ipr
Rated short-time thermal current Ith:	< 60Ipr
Rated dynamic current Idyn :	2,5Ith
Accuracy class for protection/ metering:	5p10, 10p10, 5p20, 10p20, 0.2s, 0.5
Rated secondary current Isr :	5A /1A
burden	≤ 25va
Allowed max cable or busbar temperature:	125°C
INSULATION REQUIREMENTS	
Type	Dry transformer, air insulation
Highest voltage for equipment Um:	0.72kV r.m.s.
Rated insulation level:	3kV r.m.s. 50Hz/1min
ENVIRONMENTAL CONDITIONS	
Nominal temperature range:	-25…50°C
Limit temperature range for storage:	-40…85°C
Relative humidity:	≤ 85%
Suitable for tropical climates	yes
CONNECTION	
Primary winding:	Passing bus bar
Secondary winding:	tightening by nut M4
MECHANICAL FEATURES	
Housing material:	MLC RESIN TYPE
Mounting:	screw type on bar
Weight:	

Wiring diagrams



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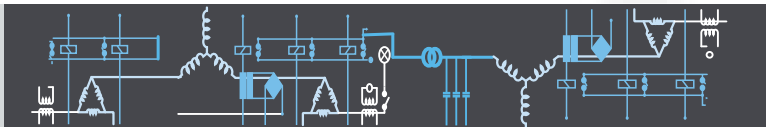
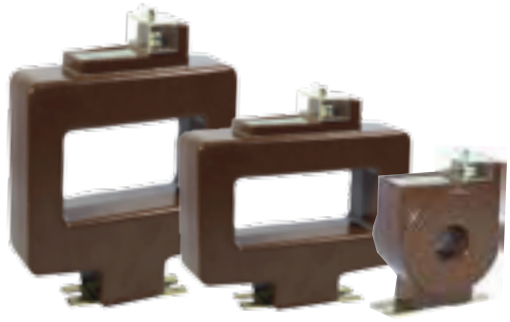


FICO

SINCE 1952

Current transformers - Special category

Cable/passing bar single-phase current transformers



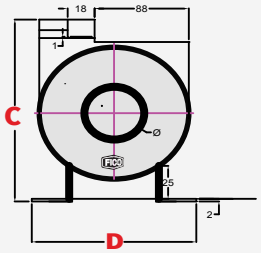
RESIN ENCAPSULATED OUT DOOR ANTI-THEFT CT

MODEL	Ratio	Class 0.5	5P10 (PROTECTION)	A	B	C	D
MLC -30	100/5A	15VA	5VA	30	30	138	110
MLC -30	200/5A	17.5VA	10VA	30	30	138	110
MLC -30	300/5A	20VA	12.5VA	30	30	138	110
MLC -30	400/5A	25VA	15VA	30	30	138	110
MLC -60	100-300/5A	15VA-25VA	5VA	60	60	163	110
MLC -60	400/5A	30VA	15VA	60	60	163	110
MLC -60	600/5A	35VA	17.5VA	60	60	163	110
MLC -60	800/5A	40VA	20VA	60	60	163	110
MLC -75	400/5A	50VA	25VA	75	75	165	110
MLC -75	600/5A	60VA	25VA-50VA	75	75	165	110
MLC -75	800/5A	60-100VA	25VA-50VA	75	75	165	110
MLC -75	1000/5A	60-120VA	25VA-50VA	75	75	165	110
MLC -100X125	1000/5A	50VA	25VA	100	125	233	205
MLC -100X125	2000/5A	60VA	25VA-50VA	100	125	233	205
MLC -100X125	3000/5A	60-100VA	25VA-50VA	100	125	233	205
MLC -100X125	4000/5A TO 6000/5A	60-120VA	25VA-50VA	100	125	233	205
MLC -50X125	1000/5A	50VA	25VA	50	125	165	190
MLC -50X125	2000/5A	60VA	30VA	50	125	165	190
MLC -50X125	3000/5A	60-100VA	30VA	50	125	165	190
MLC -50X125	4000/5A	60-120VA	30VA	50	125	165	190
MLC -75X125	1000/5A	50VA	25VA	75	125	200	200
MLC -75X125	2000/5A	60VA	30VA	75	125	200	200
MLC -75X125	3000/5A	60-100VA	30VA	75	125	200	200
MLC -75X125	4000/5A TO 6000/5A	60-120VA	30VA	75	125	200	200

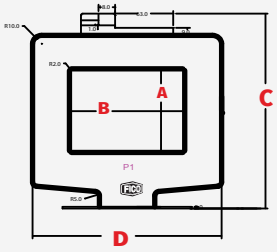
Technical features

SPECIFICATIONS	
Reference specification	EN/IEC 61869-1, 61869-2
Rated primary current Ipr:	100A TO 6000A
Working frequency:	47…63Hz
Rated continuous thermal current Icth:	100% Ipr
Rated short-time thermal current Ith:	< 60Ipr
Rated dynamic current Idyn :	2,5Ith
Instrument security factor (FS):	≤ 5
Rated secondary current Isr :	5
Max. power dissipation	≤ 20W
Allowed max cable or busbar temperature:	125°C
INSULATION REQUIREMENTS	
Type	Dry transformer, air insulation
Highest voltage for equipment Um:	0.72kV r.m.s.
Rated insulation level:	3kV r.m.s. 50Hz/1min
ENVIRONMENTAL CONDITIONS	
Nominal temperature range:	-25…50°C
Limit temperature range for storage:	-40…85°C
Relative humidity:	≤ 85%
Suitable for tropical climates	yes
CONNECTION	
Primary winding:	Passing bus bar
Secondary winding:	tightening by nut M4
MECHANICAL FEATURES	
Housing material:	self extinguishing polycarbonate
Mounting:	screw type on bar
Weight:	

DIMENSIONS

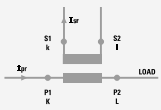


MLC 30 & MLC 60, MLC75



MLC 100 MLC 125

Wiring diagrams



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