SPECIFICATIONS FOR LOW VOLTAGE RING TYPE MEASURING CURRENT TRANSFORMERS

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Foreword

This standard specification has been prepared by the Meter Central Laboratory of the Kenya Power & Lighting company Ltd. It lays down requirements for Low voltage ring type measuring current transformers. This specification is intended for procurement of materials and does not include provision of contract.

This specification is based on the IEC 60044-1 standard. It is subject to revision as and when required.

Introduction

This specification was prepared to establish and promote uniform requirements for Low voltage split core measuring current transformers. The specification lays down the minimum requirements for equipment acceptable for evaluation. It is the responsibility of the supplier to obtain copies of the standards referred herein.

1. Scope

This specification applies to newly-manufactured low voltage ring type metering current transformers for use with electrical measuring instruments at frequencies from 15 to 100 Hz. unless otherwise specified, current transformers shall comply with the IEC 60044-1 standard.

2. References

The following documents were referred to during the preparation of this specification; in case of conflict, the requirements of this specification take precedence,

IEC 60044-1: Instrument Transformers- Part 1: Current Transformers and all the standards referred to in this standard.

3. Definitions

The definitions given in the above reference standard apply.

LV: Low voltage

CT: Current transformer

4. Requirements

4.1 Operating conditions

- 4.1.1 The current transformers shall comply fully with the service conditions for indoor current transformers as per the IEC60044-1 standard.
- 4.1.2 The current transformers shall be suitable for continuous indoor operation in tropical areas with the following atmospheric conditions:

Humidity:

High at Coast, up to 95 % and lower inland, up to 50%;

Temperature:

Average ambient of +30°C with a minimum of -1°C and a maximum

of +40°C, temperature category -5/40;

4.1.3 The current transformers shall be used for connection of equipment for industrial and commercial loads under tropical climate conditions. The system earthing shall be earthed neutral.

4.2 Design and construction

4.2.1 Dimensions

- 4.2.1.1 Measuring current transformers shall be of bar primary type, having a hollow diameter (aperture) of not less than 55mm with an external diameter of not more than 110mm for Current Transformer of 100/5A,200/5A,300/5A and 500/A ratios:
- 4.2.1.2 For Current ratios of above 500/5A and up to 2000/5A shall have hollow diameters (aperture) of not less than 120mm with external diameter of not more than 170mm.

4.2.2 Sealing

The current transformer terminals for all types of ratios shall have facility for sealing.

4.2.3 Rated insulation levels

- 4.2.3.1 The rated insulation level of a primary winding shall be based on its highest voltage for equipment $U_{\rm m}$
- 4.2.3.2 For current transformer without primary winding and without primary insulation of its own, the value $U_m = 0.72$ kV is assumed.
- 4.2.3.3 For windings having U_m = 0,72 kV or 1,2 kV, the rated insulation level is determined by the rated power- frequency withstand voltage, according to table 3 of the IEC 60044-1 Standard.

4.2.4 Insulation requirements for secondary windings

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The rated power frequency-withstand voltage for secondary winding insulation shall be not less than 3 kV (r.m.s.).

4.3 Ratings

4.3.1 Standard values of rated primary current

The standard values of rated primary currents for this tender are: 10, 15, 20, 30, 50, 75 amperes and their decimal multiples or fractions.

4.3.2 Standard values of rated secondary current

The rated secondary current for these current transformers shall be 5 A while the primary values shall be 200-300-500-1000-1500 and 2000 A.

4.3.3 The standard accuracy class

The accuracy class for these current transformers shall be class 0.5.

4.3.4 Limits of current error and phase displacement

The limits of current error and phase displacement for measuring current transformers of class 0.5-shall be as detailed in clause 11.2 and Table 11 of the IEC 60044-1-standard.

4.3.5 Rated continuous thermal current

Unless otherwise specified, the rated continuous thermal current shall be the rated primary current.

4.3.6 Rated output power

The value of rated output shall be ≥10VA

4.3.7 Rated short-time thermal current (Ith)

A rated short-time thermal current shall be assigned to the transformer and shall comply with the type test specified in clause 7.1 of the standard.

4.3.8 Rated dynamic rating (I_{dyn})

The value of the rated dynamic current (I_{dyn}) shall normally be 2.5 times the rated short-time thermal current (I_{th}) and it shall be indicated on the rating plate when it is different from this value.

4.3.9 Extended current rating

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Current Transformers of accuracy class 0.1 to 0.5 may be marked with extended current rating in compliance with the Standard.

Requirements of clause 4.3.3 to 4.3.4 shall form part of the type test approval to be issued by an International or the National (of country of manufacture) Current Transformer certifying body.

4.4 Tests

The tests specified in this standard are classified as type tests, routine tests, and special tests.

4.4.1 Type tests

Type tests shall be done on each transformer so as to comply with clauses 6.1 and 7 of the IEC 60044-1 Standard.

4.4.2 Routine tests

Routine tests shall be done on each transformer so as to comply with clauses 6.2 and 8 of the IEC 60044-1 Standard.

Requirements of clause 4.4.1 and 4.4.2 shall form part of the type test approval to be issued by an International or the National (of country of manufacture) current transformer certifying body.

4.5 Instructions and markings

4.5.1 Terminal markings

4.5.1.1 General

The terminal markings shall identify:

- a) The primary and secondary windings;
- b) The winding sections, if any;
- c) The relative polarities of windings and winding sections;
- d) The intermediate tappings, if any.

4.5.1.2 Method of marking

- a) The terminals shall be marked clearly and indelible, either on their surface or in their immediate vicinity.
- b) The marking shall consist of letters followed, or preceded where necessary, by numbers. The letters shall be in block capitals.

4.5.1.3 Markings to be used

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The markings of current transformers shall be as indicated in table 10 of the IEC 60044-1 Standard.

4.5.2 Rating plate markings

All current transformers shall carry at least the following markings:

- a) the manufacturer's name or other mark by which he may be readily identified;
- b) a serial number or a type designation, preferably both;
- c) the rated primary and secondary current, i.e.:

$$Kn = Ipn / Isn A (e.g. Kn = 100 / 5 A)$$

- d) the rated frequency (e.g. 50 Hz.);
- e) the rated output and the corresponding accuracy class, together with additional information specified in later parts of these recommendations;
- f) the highest voltage for equipment;
- g) the rated insulation level;

 Note-The two items f) and g) may be combined into one marking (e.g. 0,72/3 kV)
- h) the accuracy class and instrument security factor following the indication of the corresponding rated output (e.g. 15 VA Class 0,5 FS 10);
- i) current transformers having an extended current rating shall have this rating indicated immediately following the class designation (e.g. 15 VA Class 0.5 ext. 150 %);
- j) "THE PROPERTY OF K.P. & L. CO. LTD."

All information shall be marked in an indelible manner on the current transformer itself or on a rating plate securely attached to the transformer.

In addition, other information shall be marked whenever space is available as per IEC 60044-1 Standard.

- 4.5.3 In addition, the following drawings and information shall be required with the tender:
 - (a) Drawing giving all the relevant dimensions;
 - (b) Wiring diagrams;

- (c) Description leaflets of current transformers;
- 4.5.4 Copies of type approval certificate(s) with test and calibration results of the current transformers being offered (see clauses 4.2.3, 4.2.4, 4.4.1 & 4.4.2) obtained from an international or the national CT certification body shall be provided. If type approval certificate(s) is (are) from accredited CT certification laboratories (and not national or international body), then it (they) shall be accompanied with copies of certificates of accreditation from the national or an international certification body.

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- 4.5.5 The Tenderer shall complete clearly, all the clauses in both columns of the schedule in Appendix B. This shall form the basis of evaluation of the submitted tender. Failure to complete this appendix shall render the tender non-responsive. The tenderers shall indicate the details of their offer where it is different from these requirements. Where the requirement is the same, they shall indicate what is offered. Insertions such as "noted", "agreed" etc. shall be considered as non-responsive where a specific response is called for.
- 4.5.6 The tenderer shall submit with the tender, a sample of each type of current transformer being tendered.
- 4.5.7 The manufacturer shall provide proof of conformance to ISO 9001(2008) standard. Where proof of conformance to ISO 9001:2000 standard shall be provided, the certificate shall be valid at the time of tender submission.
- 4.5.8 The manufacturer shall provide a list of at least three previous utilities outside the country of manufacture to which the current transformer being offered has been supplied including addresses and contact person(s) of the utilities.
- 4.5.9 The tenderer shall give proof that the number of current transformers sold to utilities outside the country of manufacture over a period of last 5 years shall not be less than 5,000 CTs. The addresses and contact person(s) shall be provided with the tender to facilitate confirmation of this information by the procuring entity.
- 5. Information and warranty (In case of tender award)
- 5.1 Drawings and technical details shall be submitted to Kenya Power for approval before manufacture of the current transformers commences. Kenya Power undertakes to submit

- their comments or approval for the drawings within three weeks of receiving the draft copies.
- 5.2 Operation manuals shall be submitted in 3 copies. Description leaflets (brochures) shall be submitted in copies of 10 for each current transformer type.
- 5.3 The current transformers shall have a warranty against any defects, which may develop due to faulty material, calibration, transportation or workmanship for a period of eighteen months from the date of delivery. All defective current transformers shall be replaced at the supplier's cost.
- 5.4 KPLC engineers will inspect CT-manufacturing facilities intending to supply current transformers to the company for the first time at no extra cost, excepting the cost of the engineers' transportation to the nearest major airport. Such inspection shall not in any way prejudice the purchaser's rights and privileges.
- 5.5 The manufacturer shall meet the full costs of two engineers, for current transformer inspection and acceptance testing at the manufacturer's facility, excepting the cost of engineers' transportation from Kenya to the nearest major airport. The factory inspection and factory acceptance tests shall run for duration of three (3) working days each.
- 5.6 After delivery of current transformers to Kenya Power, the manufacturer small conduct training for at least 1 day for twenty people in Nairobi, Kenya. The training shall cover and not be limited to:
 - 1) CT construction;
 - 2) CT features;
 - 3) CT installation;
- 5.7 The manufacturer shall meet the cost of the training described in clause (5.6).
- 5.8 Samples

Transfer to

The tenderer shall submit one sample for each CT ratio type together with the tender documents. The submitted CT samples shall be subjected to accuracy tests at Kenya Power's Meter Central Laboratory to verify the requirements of IEC 60044-1 clause 11.2 and to verify responsiveness to other clauses of this specification. Sample CTs shall not be returned to the tenderers.

5.9 The current transformers shall be packaged in such a manner as to minimize damage and entry of moisture during transportation and handling.

- 5.10 The current transformers shall be packed in suitable groups and/or batches with consecutive serial numbers.
- 5.11 The supplier shall indicate the delivery time versus quantities of each type of current transformer and his production capacity.
- 5.12 Where test and/or calibration certificates/reports are issued by a laboratory other than the International/National Certification Authority, a copy of accreditation certificate shall be attached together with the tender documents.
- 5.13 The manufacturer shall provide current e-mail addresses, fax and telephone numbers of the national/international testing/calibration laboratories and current transformer certification bodies to facilitate confirmation of the submitted test reports & certificates.

APPENDIX B:

<u>Statement of Compliance</u> (to be filled by the Supplier <u>for all clauses</u> and Submitted for tender evaluation)

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		Kenya Power Requirements	Bidder's offer	technical data
				tests certificat
				Reference Page
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ř	4.1	Operating Conditions	Control of the Contro	
	4.1.1	Shall comply fully with the service conditions for indoor		
	The second se	current transformers as per the IEC60044-1	The second secon	·
	4.1.2	The current transformers shall be suitable for continuous		
		indoor operation in tropical areas with the following	÷. = == ; == ;	Line and the second
		atmospheric conditions:		
		Humidity: High at Coast, up to 95 % and lower inland, up to		
i		50%;		
		Temperature: Average ambient of +30°C with a minimum of		
		-1°C and a maximum of +40°C, temperature category –	•	
		5/40;		
	4.1.3	The current transformers shall be used for connection of	•	
	1.5.25.55	equipment for industrial and commercial loads under tropical		
		climate conditions. The system earthing shall be earthed		
		neutral.	en e	
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	4.2	Design & Construction		
į	4.2.1	Dimensions		
i	4.2.1.1	Measuring current transformers of current shall be of bar		
		primary type, having a hollow diameter of not less than		
		55mm with an external diameter of not more than 110mm for		
		200/5A-,300/5A and 500/A ratios.		
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4.2.1.2	For Current ratios of above 500A and up to 2000/5A shall have hollow diameters of not less than 120mm with external diameter of not more than 170mm		
4.2.2	Sealing		
4.2.2.1	Sealing: The current transformer terminals for all types shall have facility for sealing.		
4.2.3.1	Rated Insulation Levels The rated insulation level of a primary winding shall be based on its highest voltage for equipment Um		
4.2.3.2	For current transformer without primary winding and without primary insulation of its own, the value Um = 0.72kV is assumed		
4.2. 3.3:	For winding having Um=0,72Kv or 1,2 Kv,the rated insulation level is determined by the rated power frequency-withstand voltage ,according to table 3 of IEC60044-1 Standard.		· · · · · ·
4.2.4	Insulation requirements for secondary windings The rated power frequency –withstand voltage for secondary winding insulation shall be not less than 3Kv(r.m.s)		
4.3	Ratings		
4.3.1	Standard rated primary currents shall be 10, 5, 20, 30, 50, 60, 75 Amperes and their decimal fractions		
4.3.2	Standard values of rated secondary current. The rated secondary current for these current transformer shall be 5A while the primary values shall be,200-,300-,500-,1500-and 2000A current		
4:3.3	The accuracy class for these current transformers shall be class 0.5	50.1. (72.5.)	
4.3.4	Limits of current error and phase displacement for measuring current transformers of class 0.5 shall be as detailed in clause 11.2 and Table 11 of the IEC60044-1Standard		
4.3.5	Unless otherwise specified, the rated continuous thermal current shall be the rated primary current.		
4.3.6	The value of rated output shall be ≥10VA		
4.3.7	A rated short time thermal current shall be assigned to the transformer and shall comply with the type test specified in clause 7.1 of the standard		
4.3.8	The value of the rated dynamic current (I_{dyn})shall normally be 2.5times the rated rated short-time thermal current (Ith) and it shall be indicated on the plate when it is different from this value.		
4.3.9	Current Transformers of accuracy class 0.1 to 0.5 may be marked with extended current rating in compliance with the Standard		
	Requirements of clause 4.33 to 4.3.4 shall form part of the type test approval to be issued by an international or the National(of country of manufacture)Current Transformer certifying body.		
4.4	Tests: The tests specified in this standard are classified as types ,routine tests, and special tests		

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4.4.1	Type tests: The tests shall be done on each transformer so as		- Septent
443	to comply with clause 6.1and 7 of IEC60044-1Standard		
4.4.2	Routine tests:Routine tests shall be done on each transformer		
	so as to comply with clauses 6.2 and 8 of IEC60044-1 Standard.		
			<u></u>
	Requirements of clause 4.4.1 and 4.4.2 shall form part of		
	the type approval to be issued by an International or		
	National (of country of manufacture) current transformer certifying body.		
	u anstormer certuying body.		
4.5	Instructions and markings		1
4.5.1	Terminal Markings		-
7.5,1	The terminal markings shall identify		
(a)	Primary and secondary windings		
(b)	-Winding sections if any	-	
(c)	Relative Polarities of winding sections		
(6)	Relative Foliatities of willding sections		
(d)	The relative polarities of windings and winding sections		
(e)	Intermediate tappings, if any	· 	() ()
4.5.1.2	Method of Marking		<u> </u>
(a)	The terminal shall be marked clearly and indelibly, either on		
(w) 	their surface or in their immediate vicinity.		
(b)	Markings shall consist of letters followed by numbers with		
To galifica to the second	letters in block capitals		
4.5.1.3	The marking to be used. The Markings of current		
	transformer shall be indicated as in table 10 of the IEC		
Charles and asset	60044-1Standard		
4.5.2	Rating plate markings All current transformers shall carry at		
· ·	least the following:		
a)	the manufacturers name or other mark by which he may be		al manufacture of the state of
	readily identified		134
b)	Serial number or a type designation, preferably both		
-c)	the rated primary & secondary current-i.e Kn=Ipn/IsnA(e.g	sasat vita di	
	Kn=190/5A		ngan filippy
d)	the rated frequency(e.g. 50Hz)		-
e)	the rated output and corresponding accuracy class, together		
	with additional information specified in later parts of these		
	recommendations.		
f)	the highest voltage for equipment		<u> </u>
g)	the rated insulation level. Note-The two items f) and g) may		,
·	be combined into one marking (e.g0,72/3Kv)		
h)	the accuracy class and instrument security factor following of		
	the corresponding rated output (e.g. 15VA Class 0.5FS10)		
i)	current transformer having an extended current rating shall		
	have this indicated immediately following the class	•	
* .	designation (e.g. 15VA Class 0.5 ext,150%) if applicable		
	THE PROPERTY OF K.P. CO. LTD. All information shall be		
	marked in an indelible manner on the current transformer		
	itself or on a rating plate securely attached to the		
	transformer.In additiona ,other information shall be marked		
	whenever space is available as per IEC 60044-1 Standard.		

1.5.3 In addition, the following drawings and information shall be required with the tender: 1.5.4 Drawing giving all the relevant dimensions; Wiring diagrams; Description leaflets of current transformers 2.5.4 Copies of type approval certificate(s) with test and calibration results of the current transformers being offered(see clauses 4.2.3.4.2.4.4.1.8.44.2) obtained from an international or the national Or the national CT certificate body shall be provided. If type approval certificate(s) is (are; from accredited CT certificate laboratories (and not national or international body), then it (they) shall be accompanied with copies of certificates of accreditation from the national or an international certificate body 1.5.5 The Tenderer shall complete Cleary; all the clauses in both columns of the schedule in Appendix B.This shall form the basis of evaluation of the submitted tender. Failure to complete this appendix shall render the tender non responsive. The tenderers shall indicate the details of their offer where it is different from these requirements. Where the requirement is the same, they shall indicate what is offered. Insertion such as "noted", "agreed" etc. shall be considered non-responsive where a specific response is called for. 1.5.7 The tender shall summit with the tender, a sample of each type of current transformer being tendered. The manufacturer shall provide prof of conformance to ISO 9001(2008) standard shall be provided, the certificate shall be valid at the time of tender submissions. The manufacturer shall provide prof of conformance to ISO 9001(2008) standard shall be provided that beautive to which the current transformer being offered has been supplied including addresses and contact persons shall be provided with the tender to facilitate contribution of this information by the procuring entity. The manufacture over a period of at least Syears shall not be less than 5000 CTs. The addresses and contact persons shall be provided with the tender for facilitate c		· · · · · · · · · · · · · · · · · · ·		,
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5.3	The current transformers shall have a warranty against any defects, which may develop due to faulty material, calibration, transportation or workmanship for a period of eighteen months from the date of delivery. All defective current transformers shall be replaced at the supplier's cost.		
5.4	KPLC engineers will inspect CT-manufacturing facilities intending to supply current transformers to the company for the first time at no extra cost, excepting the cost of the engineers' transportation to the nearest major airport. Such inspection shall not in any way prejudice the purchaser's rights and privileges.		
5.5	The manufacturer shall meet the full costs of two engineers, for current transformer inspection and acceptance testing at the manufacturer's facility, excepting the cost of engineers' transportation from Kenya to the nearest major airport. The factory inspection and factory acceptance tests shall run for duration of three (3) working days each.		Y
5.6	After delivery of current transformers to Kenya Power, the		
-	manufacturer shall conduct training for at least 1 day for		
	twenty people in Nairobi, Kenya. The training shall cover and	• • • • • • • • • • • • • • • • • • • •	
	not be limited to:		
	4) CT construction;		
·	5) CT features;		
	1		
The state of the s	6) CT installation;	ر. سوي	
5.7	The manufacturer shall meet the cost of the training		
Design of the state of	described in clause (5.6).		
5.8	Samples The tenderer shall submit one sample for each CT ratio type together with the tender documents. The submitted CT samples shall be subjected to accuracy tests at Kenya Power's Meter Central Laboratory to verify the requirements of IEC 60044-1 clause 11.2 and to verify responsiveness to other clauses of this specification. Sample CTs shall not be returned to the tenderers.	·	
5.9	The current transformers shall be packaged in such a manner as to minimize damage and entry of moisture during transportation and handling		
5.10	The current transformers shall be packed in suitable groups and/or batches with consecutive serial numbers.		
5.11	The current transformers shall be packed in suitable groups and/or batches with consecutive serial numbers.	· · · · · · · · · · · · · · · · · · ·	
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5.12	Where test and/or calibration certificates/reports are issued by a laboratory other than the International/National Certification Authority, a copy of accreditation certificate shall be attached together with the tender documents.	
5.13	The manufacturer shall provide current e-mail addresses, fax and telephone numbers of the national/international testing/calibration laboratories and current transformer certification bodies to facilitate confirmation of the submitted test reports & certificates.	

NB: - This schedule does not in any way substitute for detailed information required elsewhere in the specification.

Manufacturer's Declaration: I	on behalf of
Declare that the above specification	ns matrix conforms to a typical tender item type as
	technical brochures & drawings, and being offered for this tender.
- Signature	. DateStamp/Seal

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