

Title: **TECHNICAL BULLETIN FOR  
CONTRACT NO: 4600067777  
(DISTRIBUTION'S CONTRACT  
FOR CTS FROM 22KV UP TO  
132KV SUPPLIED BY ACTOM)**

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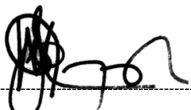
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## 1. Introduction

An enquiry (Corp 4924) was issued to the market in September 2019 for the design, manufacture, test and supply of current transformers ranging from 22kV up to 132kV. The aim for the enquiry was to put in place a long term (4 years) national contract for current transformers to fulfil Eskom Wires Business requirements for projects and strategic spares holding. After all technical and commercial processes were completed, ACTOM was awarded a contract (No: 4600067777) to supply current transformers to Eskom Distribution.

## 2. Revision history

Date	Rev	Compiler	Remarks
July 2020	1	S Maphosa	First Issue.

## 3. Current Transformers in ACTOM contract

### 3.1 List of Items in Contract

The current transformers which form part of the contract are listed in table 1.

**Table 1: 22kV up to 132kV Current Transformers in ACTOM Contract with Distribution**

SAP No	D-DT No:	Contract Dr No:	Current Transformer Short Description	Users
180087	6192	0.54/9783	CT 22kV 1600A 25kA 2P2M 31mm/kV	Dx / Tx
180088	6192	0.54/9784	CT 22kV 2500A 25kA 2P2M 31mm/kV	Dx / Tx
180038	6191	0.54/9785	CT 33kV 1600A 31.5kA 2P2M 31mm/kV	Dx / Tx
180035	6198	0.54/9786	CT 66kV 1600A 31.5kA 2P2M2B500 31mm/kV	Dx / Tx
180037	6198	0.54/9787	CT 66kV 1600A 31.5kA 2P 2M 2B10/12/16 31mm/kV	Dx / Tx
257376	6198	0.54/9788	CT 66kV 200A 10kA 2M 31mm/kV	Dx
675092	6198	0.54/9789	CT 66kV 200A 20kA 2M 31mm/kV	Dx New
180031	6190	0.54/9790	CT 132kV 2500A 40kA 2P2M2B(500) 31mm/kV	Dx / Tx
180034	6190	0.54/9791	CT 132kV 2500A 40kA 2P 2M 2B10/12/16 31mm/kV	Dx / Tx
257374	6190	0.54/9792	CT 132kV 2500A 40kA 2P2M2B24 31mm/kV	Dx / Tx
216835	N/A	0.54/9793	CT 132kV 2500A 40KA 3P1M2B2431mm/kV	Tx
243900	N/A	0.54/9794	CT 132kV 2500A 40kA 2P2M2B16 31mm/kV	Tx
217028	N/A	0.54/9795	CT 132kV 2500A 40kA 3P1M2B16 31mm/kV	Tx
243902	N/A	0.54/9796	CT 132kV 2500A 40kA 2P2M2B12 31mm/kV	Tx
630597	N/A	0.54/9797	CT 132kV 2500A 40kA 3P1M2B12 31mm/kV	Tx
257375	6190	0.54/9798	CT 132kV 200A 10kA 2M 31mm/kV	Dx
675093	6190	0.54/9799	CT 132kV 200A 20kA 2M 31mm/kV	Dx New

#### Notes:

- The list of items (Table 1) by error includes current transformers which are used in both Distribution (DX) and Transmission (TX) businesses. It is the responsibility of user's to order the right items.
- Items 675092 and 675093 are new items which are replacing items 257375 and 257376 and will be added to D-DT drawings. The new units have a higher short circuit current of 20kA and users are advised to order the new items.
- The link for Contract drawing numbers is: <http://eng.eskom.co.za/sites/fs/pde/hvp/IT/Pages/Default.aspx>

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## **4. Technical Details**

The current transformers offered in this contract are post type "hairpin" design with paper / oil capacitor body as insulation medium. They are hermetically sealed and do not require intrusive maintenance.

### **4.1 HV Terminals**

The HV terminals of the current transformers are made of electro-tinned copper with a diameter of 26mm (for current rating  $\leq 800\text{A}$ ) and 38mm (for current rating  $> 800\text{A}$ ).

### **4.2 Secondary Terminals**

The secondary terminals are located in the terminal box. They are encapsulated in resin and are made of fully threaded 6mm diameter brass rod.

### **4.3 Installation**

The current transformers can be installed using standard clamps i.e. EXC (KC) or EYC (YC).

## **5. Packaging, Shipping and Storage**

The current transformers are packaged, shipped and stored in a vertical position. These current transformers do not require special stands for storage but must be placed on a dry stable surface.

## **6. Contract Validity**

This is a four years contract and is valid from 15 May 2020 until 14 April 2024 or when funds are depleted.

## **7. Contract Communication**

Persons listed in table 2 can be contacted for further enquiries.

**Table 2: Contact Persons**

<b>Technical</b>	Name	Sibongile Maphosa
	Telephone number	+27 11 800 5208
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