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Ex

British Approvals Service for Electrical  
Equipment in Flammable Atmospheres



## Certificate of Conformity

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BAS No. Ex 96D1452

3 This certificate is issued for the electrical apparatus:

**A TYPE 4793 SLIPRING COLLECTOR**

4 Manufactured and submitted for certification by:

**TROLEX ENGINEERING LIMITED**  
of Stockport, Cheshire, SK7 5DA

**UNCONTROLLED DOCUMENT**  
THIS DOCUMENT IS NOT  
SUBJECT TO AMENDMENTS

T.E.L. ENGINEERING LIMITED

5 This electrical apparatus and any acceptable variation thereto is specified in the Schedule to this Certificate and the documents therein referred to.

6 BASEEFA being an Approved Certification Body in accordance with Article 14 of the Council Directive of the European Communities of 18 December 1975 (76/117/EEC) certifies that the apparatus has been found to comply with harmonised European Standards:

**EN50 014 (1977) + Amd 1 to 5**

**EN50 018 (1977) + Amd 1 to 3**

**EN50 019 (1977) + Amd 1 to 5**

and has successfully met the examination and test requirements recorded in confidential Report number:

**96(C)0815 (ERA Ref 3626/509) dated June 1997**

7 The apparatus marking shall include the code:

**EEx de IIA T4 (T<sub>amb</sub> = -20°C +70°C)**

8 The manufacturer of the electrical apparatus referred to in this certificate, has the responsibility to ensure that the apparatus conforms to the specification laid down in the Schedule to this certificate and has satisfied routine verifications and tests specified therein.

9 This apparatus may be marked with the Distinctive Community Mark specified in Annex II to the Council Directive of 16 January 1984 (Doc 84/47/EEC). A facsimile of this mark is printed on sheet 1 of this certificate.

File No: EECS 1428/01/022

Sheet 1 of 2

This certificate is granted subject to the general conditions of the Electrical Equipment Certification Service. It does not necessarily indicate that the apparatus may be used in particular industries or circumstances. Representation of equipment as "Certified" is valid only when the number of this certificate is given on the relevant EECS Manufacturing Licence or Verification Certificate.



**I M CLEARE**  
**DIRECTOR**

24 June 1997



Registration Number  
020  
The use of the Accreditation  
Mark indicates accreditation in  
respect of those activities  
covered by the accreditation  
certificate number 020.



**Electrical Equipment Certification Service**  
Health and Safety Executive  
Harpur Hill, Buxton, Derbyshire, SK17 9JN, United Kingdom  
Tel: 01298 28000 Fax: 01298 28244

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## Schedule

Certificate of Conformity BAS No. Ex 96D1452

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### APPARATUS DESCRIPTION

**A Type TX 4793 Slipring Collector** comprising a fabricated stainless steel enclosure incorporating sliprings and associated brushgear in a flameproof housing and increased safety terminal housings for external connections.

The flameproof housing is basically cylindrical and made to permit process pipes to pass axially through the centre. Access covers are provided on the sides of the flameproof housing, having flanged joints and secured with stainless steel socket head cap screws of minimum grade A2-70.

Increased safety terminal chambers are provided, one on the main (rotor) housing and one on the bottom of the centre shaft (stator).

The internal equipment comprises three power rings each rated at 600A, 11000V a.c., one earth ring rated at 600A; three anticondensation heaters one in each compartment, each rated at 50W, 110-240V a.c. and two heater rings each rated at 5A, 250V a.c. The heaters are certified by PTB to Ex-87/1025 Code EEx d IIC T4.

Internal and external earthing facilities are provided.

The enclosure provides Degree of Protection IP68 to 50 m (EN 60529: 1992) by means of nitrile 'O' rings and seals on the rotating parts.

Cable entry holes are provided on removable parts on the top terminal chamber for the provision of specified cable entry devices. Specified cable entry devices are provided on the lower terminal chamber.

### DRAWINGS

<u>Number</u>	<u>Issue</u>	<u>Date</u>	<u>Description</u>
1/4793/17 Sheets 1-5	B	28.9.96	Approval GA

BASEEFA List Keywords

2SLIRING



## Certificate of Conformity - Variation

**UNCONTROLLED DOCUMENT**  
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T.E.L. ENGINEERING LIMITED

This is to certify that Equipment Certificate number: **BAS No. Ex 96D1452**  
held by: **T.E.L. Engineering Limited**  
(Trading as Trolex Engineering)  
of: **Newby Road, Hazel Grove, Stockport,**  
**Cheshire, SK7 5DA**  
for the: **Type 4793 Slipring Collector**

is hereby extended to apply to the apparatus designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This Supplementary Certificate shall be held with the original Certificate

The Electrical Equipment Certification Service retains responsibility for its original documentation. Baseefa is responsible only for the additional work relating to this supplementary certificate and any other supplementary certificate that it has issued.

**NB. This certificate is issued not for the purposes of a new manufacture (as the standards referred to are now superseded), but to allow modification of previously manufactured products in the field in line with the original certification.**

This certificate may only be reproduced in its entirety, without any change, Schedule included.


Baseefa Customer Reference No. **1428**

Project File No. **12/0428**

This certificate is granted subject to the general terms and conditions of Baseefa. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

### Baseefa

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e-mail [info@baseefa.com](mailto:info@baseefa.com) web site [www.baseefa.com](http://www.baseefa.com)  
Baseefa is a trading name of Baseefa Ltd  
Registered in England No. 4305578. Registered address as above.

  
R S SINCLAIR  
DIRECTOR  
On behalf of  
Baseefa



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## Schedule

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### Description of the variation

#### Variation 1.1

To permit the use of replacement ExHeat anti-condensation heaters of Type HEF30 & HEF50 to EC-Type Examination Certificate LCIE02ATEX6123X or IECEx LCI 07.0004X, both coded Ex e II T4.

### Report No.

None

### Drawings

Number	Issue	Date	Description
1/4793/17 Sheets 1 to 5	C	2 May 12	General Arrangement, Type 4793 Slipring Collector

### Specific Conditions of Use

None