

# ASTA CERTIFICATION SERVICES

IA Company Limited by Guarantee, Registered at London. Number 3470661

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Director: ~~R. Dagnall, Director, I.A.C.E.~~ M.J. Swan Dip. E.E., C.Eng.,  
F.I.E.E. F.I.O.A.

GEC Installation Equipment Ltd.,  
East Lancashire Road,  
Liverpool. L10 5HB

Attention Of: Mr T. Wells

File Ref. ASI/68/3/71

Authorisation Ref. A3051 A

Date 9th January 1989

Dear Sirs,

## AUTHORISATION TO USE THE ASTA CERT ENDORSEMENT

Authority is hereby given for the fuse-link types and ratings identified below to be endorsed ASTA @ CERT or ASTA @ CERTIFIED.

### Details of Reference Fuse-Links

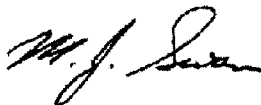
British Standard No.	88: Part 2, sections 2.1 and 2.2: 1988 (IEC 269-2: 1985 and IEC 269-2-1, section II: 1987)
Manufacturers Type Designation & BS Ref / Size / Types	TF BS Ref B2
Voltage Rating	660 Vac
Breaking Capacity	80 kA
Current Ratings	200M250, 200, 160 & 125A
ASTA Certificate No(s).	9847 & S10843

### Approved Variants

Details of any approved variants are shown on attachments to this letter.

This letter of authorisation is not valid until a signed acknowledgement of receipt has been received by ASTA. The signing of this letter by a manufacturer means ipso facto that the manufacturer agrees to recognise and to observe the requirements of the current issue of ASTA Publication No. 20.

Yours Faithfully,  
for ASTA



Note: This authorisation extends that of the same reference 15th August 1984.

Acknowledgement of receipt is hereby given

T. Wells Signed  
for GEC Installation Equipment Ltd Company  
17 January 1989 Date

## CERTIFICATE OF Short Circuit Rating

**APPARATUS:** Motor circuit and general purpose non-indicating tag type fuse links (B.S. Ref. 82)

**DESIGNATION:** Types TF200M250 and TF125 \*

**MANUFACTURER:** GEC Installation Equipment Limited, Liverpool

**TESTED BY:** SWITCHGEAR TESTING COMPANY LIMITED

**DATE(S) OF TESTS:** 15-2-83, 17-2-83, 18-2-83

The apparatus, constructed in accordance with the description, drawings and photographs incorporated in this Certificate has been subjected to the series of proving tests in accordance with B.S. 88 : Parts 1 and 2 : 1975. The tests also comply with the requirements of IEC Publication 269-1 : 1968 and 269-2A : 1975 and Australian Standard 2005 : Parts 1 and 2 : 1977.

The results are shown in the Record of Proving Tests and the oscillograms attached hereto. The values obtained and the general performance are considered to comply with the above Standard(s) and to justify the ratings assigned by the manufacturer as stated

Symmetrical breaking current of 80kA rms for a voltage rating of 660 volts a.c.

\* The above fuse-links represent the maximum and minimum ratings of a homogeneous series. Fuse-links having intermediate ratings of 200A and 160A have been examined and comply with clause B.1.5.3 (B.S. 88 : Part 1 : 1975) as part of this series.

The responsibility for conformity of any apparatus having the same designation with that tested lies with the manufacturer.

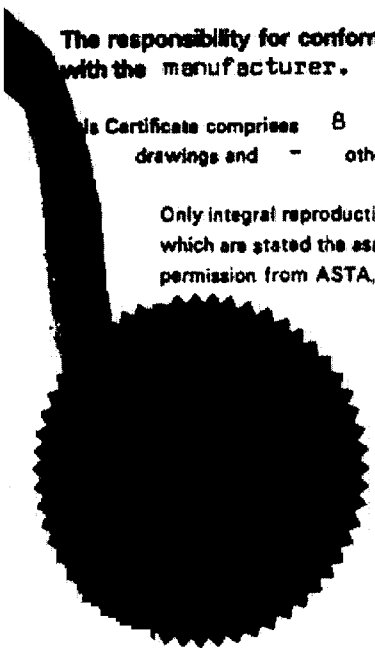
This Certificate comprises 8 pages, 1 diagrams, 26 oscillograms, 7 photographs, drawings and - other sheets as detailed on page -

Only integral reproduction of this Certificate, or reproductions of this page accompanied by any page(s) on which are stated the assigned rated characteristics of the apparatus tested, are permitted without written permission from ASTA, 23/24 Market Place, Rugby CV21 3DU England. (see ASTA Publication No. 7).

*Ad Ree* ..... ASTA Observer

*P. D. ...* ..... Secretary

11<sup>th</sup> July 1984 ..... Date



510843

# ASTA CERTIFICATION SERVICES

(Incorporated in the year 1938)

23/24 Market Place, Rugby, CV21 3DU, England

Laboratory Ref. No. 27ND

## SUPPLEMENT TO CERTIFICATE OF SHORT-CIRCUIT RATING

No. 9847 ISSUED 11th July 1984 (27NB)

APPARATUS: Motor circuit non-indicating tag type cartridge fuse-links  
B.S. ref. B2 of 200M250A and 125A normal current rating  
with intermediate ratings of 200A and 160A

DESIGNATION: TF

MANUFACTURER: GEC Installation Equipment Limited, Liverpool

CERTIFICATION STANDARD: B.S. 88 : Parts 1 and 2 : 1975, IEC 269-1 : 1968,  
IEC 269-2A : 1975

CERTIFIED RATINGS: 80kA at 660V, 50Hz

This supplement to the above mentioned certificate is issued to extend its applicability to cover compliance with clause 8.5 of B.S. 88 : Parts 1 and 2, Sections 2.1 and 2.2 : 1988 (IEC 269-1, IEC 269-2 : 1986 and IEC 269-2-1, Section II : 1987) for the same short-circuit rating.

Breaking Range and Utilization Category :-

gM - Maximum rating of 200M250A

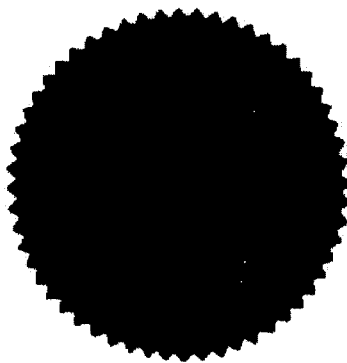
gG - Intermediate ratings of 200A, 160A and minimum rating of 125A

No additional tests were made

The record of Proving Tests applies only to the apparatus tested. The responsibility for conformity of any apparatus having the same designations with that tested rests with the Manufacturer.

This Certificate comprises this page

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*BV Radford* ASTA Observer/Inspector  
*M. J. Swan* DIRECTOR Secretary  
10<sup>th</sup> November 1988 Date