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# MEDIUM VOLTAGE DIN Fuse-Links

## 17.5kV, Current Limiting Back-Up Fuse-Links, 6.3 to 125 Amps

**MV DIN**



**Standards/Approvals:**

DIN 43625, VDE 0670 part 4, VDE 0670 part 402 and IEC 60282-1 (2005)

**Description:**

A range of medium voltage DIN Fuses, complete with sealed striker, suitable for transformer protection. The fuses can be used even where there is no secondary LV protection, provided they are used with fuse switches fitted with instantaneous striker tripping.

**Packaging:**

All fuse-links are packed in 3's.  
MOQ: 3  
Packaging 100% recyclable

**Technical Data:**

DIN fuse-links  
Rated voltage: 17.5kV  
Amps: 6.3A to 125A  
Rated breaking capacity: 35.5 kA to 50kA  
Rated frequency: 50 - 60Hz  
Suitable for indoor and outdoor use

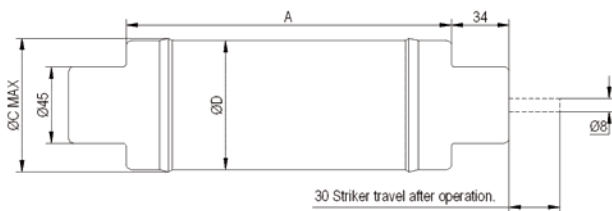
**Catalogue Symbol:**  
17.5TDLSJ(amp)  
17.5TFLSJ(amp)  
17.5TDMEJ(amp)  
17.5THMEJ(amp)  
17.5TFMEJ(amp)  
17.5TKMEJ(amp)

**Class of Operation:** Back-up as IEC 60282-1 (2005)

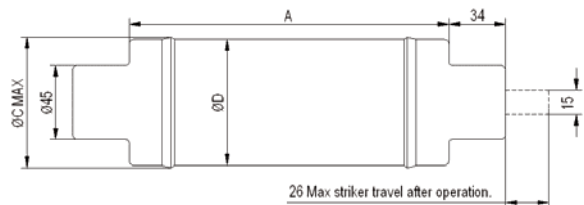
**Dimensional Data:**

Fuse Reference	A	C	D	Weight (Kg)
TDLSJ	292	54	51	1.7
TFLSJ	292	80	76	3.1
TDMEJ	442	54	51	2.5
THMEJ	442	67	64	3.7
TKMEJ	442	80	76	5.1

**EJ Outline**



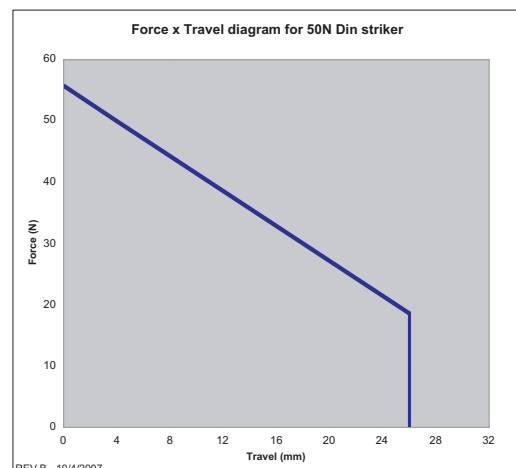
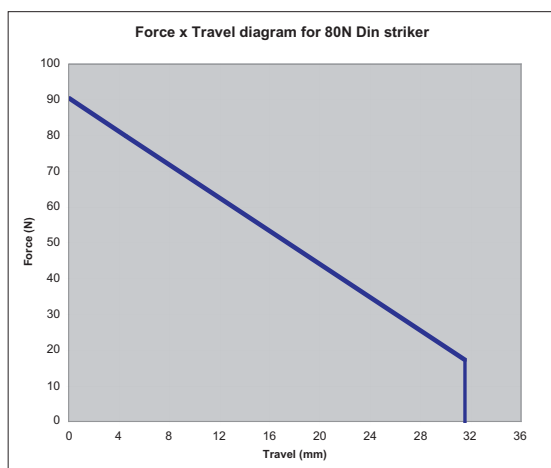
**SJ Outline**



**Striker Diagrams:**

E = Spring Striker 80N to IEC 60282-1 designation "medium"

S = Spring Striker 50N to DIN 43625 and IEC 60282-1 designation "medium"



# MEDIUM VOLTAGE DIN Fuse-Links

## 17.5kV, Current Limiting Back-Up Fuse-Links, 6.3 to 125 Amps

# MV DIN

### Table of Ratings:

**Standard Approvals:** DIN 43625, VDE 0670 part 4, VDE 0670 part 402 and IEC 60282-1 (2005)

**Technical Data:** 6.3, 10, 16, 20, 25, 31.5, 40, 50, 63, 80, 100, 125 Amps

Part Number	Current Rating $I_n$ (A)	Breaking Capacity $I_1$ (kA)	Minimum Breaking Capacity $I_3$ (A)	Cold Resistance & Watts Loss in Free Air		Joule Integral ( $I^2t$ )		Length mm	Diameter mm	Weight kg
				mΩ	W	Minimum Pre-Arcing	Maximum Operating			
17.5TDLSJ6.3*	6.3	35.5	23	313	15	$4.8 \times 10^1$	$6.1 \times 10^2$	292	51	1.7
17.5TDLSJ10*	10	35.5	19	185	23	$2.8 \times 10^2$	$4.0 \times 10^3$	292	51	1.7
17.5TDLSJ16*	16	35.5	59	104	34	$2.9 \times 10^2$	$2.0 \times 10^3$	292	51	1.7
17.5TDLSJ20*	20	35.5	80	69.2	38	$5.7 \times 10^2$	$4.4 \times 10^3$	292	51	1.7
17.5TDLSJ25*	25	35.5	100	55.4	48	$8.9 \times 10^2$	$6.6 \times 10^3$	292	51	1.7
17.5TDLSJ31.5*	31.5	35.5	118	41.4	58	$5.1 \times 10^2$	$1.1 \times 10^4$	292	51	1.7
17.5TDLSJ40*	40	35.5	148	31.1	76	$8.0 \times 10^2$	$1.8 \times 10^4$	292	51	1.7
17.5TFLSJ50*	50	35.5	225	17.3	62	$8.1 \times 10^3$	$6.0 \times 10^4$	292	76	3.1
17.5TDMEJ6.3	6.3	50	25	324	14	$9.8 \times 10^1$	$1.0 \times 10^3$	442	51	2.5
17.5TDMEJ10	10	50	36	192	24	$2.8 \times 10^2$	$2.3 \times 10^3$	442	51	2.5
17.5TDMEJ16	16	50	55	79.6	23	$2.6 \times 10^2$	$3.9 \times 10^3$	442	51	2.5
17.5TDMEJ20	20	50	69	57.0	27	$5.2 \times 10^2$	$5.4 \times 10^3$	442	51	2.5
17.5TDMEJ25	25	50	87	45.5	34	$8.1 \times 10^2$	$8.4 \times 10^3$	442	51	2.5
17.5TDMEJ31.5	31.5	50	87	34.1	41	$1.4 \times 10^3$	$1.5 \times 10^4$	442	51	2.5
17.5TDMEJ40	40	50	111	25.0	53	$2.4 \times 10^3$	$2.5 \times 10^4$	442	51	2.5
17.5TDMEJ50	50	50	174	19.7	69	$2.8 \times 10^3$	$3.1 \times 10^4$	442	51	2.5
17.5TDMEJ63	63	50	200	15.4	89	$4.3 \times 10^3$	$4.7 \times 10^4$	442	51	2.5
17.5THMEJ80	80	50	270	11.5	108	$7.9 \times 10^3$	$9.1 \times 10^4$	442	64	3.7
17.5THMEJ100	100	50	376	8.38	127	$2.0 \times 10^4$	$1.4 \times 10^5$	442	64	3.7
17.5TKMEJ125	125	50	467	5.95	146	$3.4 \times 10^4$	$3.5 \times 10^5$	442	76	5.1

\* Not compliant with VDE 0670 part 402

# MEDIUM VOLTAGE DIN Fuse-Links

## 17.5kV, Current Limiting Back-Up Fuse-Links, 6.3 to 125 Amps

MV DIN

### Cross-Reference

Bussmann	EFEN	SIBA	MESA	ETI (80N Striker)	ETI (50N Striker)	Merlin Gerin	eilmor	INAE	ABB
17.5DLSJ6.3	N/A	3025513	N/A	N/A	N/A	N/A	N/A	IB-D1	1YMB531003M0001
17.5DLSJ10	N/A	3025513	CFR-17,5/10	N/A	N/A	51006 522 M0	N/A	IB-D1	1YMB531003M0002
17.5DLSJ16	N/A	3025513	CFR-17,5/16	N/A	N/A	51006 523 M0	N/A	IB-D1	1YMB531003M0003
17.5DLSJ20	N/A	3022113	N/A	N/A	N/A	N/A	N/A	IB-D1	1YMB531003M0013
17.5DLSJ25	N/A	3022113	CFR-17,5/25	N/A	N/A	51006 524 M0	N/A	IB-D1 & IB-D2	1YMB531003M0004
17.5DLSJ31.5	N/A	3022113	CFR-17,5/31.5	N/A	N/A	51006 525 M0	N/A	IB-D1 & IB-D2	1YMB531003M0014
17.5DLSJ40	N/A	3022113	CFR-17,5/40	N/A	N/A	51006 526 M0	N/A	IB-D1 & IB-D2	1YMB531003M0021
17.5TFLSJ50	N/A	3022113	N/A	N/A	N/A	N/A	N/A	IB-D2	1YMB531003M0022
17.5DMEJ6.3	N/A	3023113	N/A	N/A	N/A	N/A	N/A	IB-D1	1YMB531037M0001
17.5DMEJ10	N/A	3023113	N/A	N/A	N/A	N/A	N/A	IB-D1	1YMB531037M0002
17.5DMEJ16	N/A	3023113	N/A	N/A	N/A	N/A	N/A	IB-D1	1YMB531037M0003
17.5DMEJ20	N/A	3023113	N/A	N/A	N/A	N/A	N/A	IB-D1	1YMB531037M0013
17.5DMEJ25	N/A	3023113	N/A	N/A	N/A	N/A	N/A	IB-D1	1YMB531037M0004
17.5DMEJ31.5	N/A	3023113	N/A	N/A	N/A	N/A	N/A	IB-D1	1YMB531037M0014
17.5DMEJ40	N/A	3023113	N/A	N/A	N/A	N/A	N/A	IB-D1	1YMB531037M0021
17.5DMEJ50	N/A	3023213	N/A	N/A	N/A	N/A	N/A	N/A	1YMB531037M0006
17.5DMEJ63	N/A	3023213	N/A	N/A	N/A	N/A	N/A	IB-D2	1YMB531037M0007
17.5THMEJ80	N/A	3023213	N/A	N/A	N/A	N/A	N/A	N/A	1YMB531037M0008
17.5THMEJ100	N/A	3023313	N/A	N/A	N/A	N/A	N/A	IB-D2	1YMB531003M0009
17.5TKMEJ125	N/A	3023314	N/A	N/A	N/A	N/A	N/A	N/A	1YMB531003M0010

### Watts Loss Comparison

Lowest Watts Loss

Bussmann Part Number	Bussmann Watts Loss	EFEN Watts Loss	SIBA Watts Loss	MESA Watts loss	ETI Watts Loss	Merlin Gerin Watts Loss	eilmor Watts Loss	INAE Watts Loss	ABB Watts Loss
17.5DLSJ6.3	15	-	25	-	-	-	-	-	54
17.5DLSJ10	23	-	48	23	-	23	-	-	41
17.5DLSJ16	34	-	37	47	-	47	-	-	67
17.5DLSJ20	38	-	40	-	-	-	-	-	52.6
17.5DLSJ25	48	-	56	72	-	72	-	-	64
17.5DLSJ31.5	58	-	65	78	-	78	-	-	56.7
17.5DLSJ40	76	-	84	90	-	90	-	-	80
17.5TFLSJ50	62	-	101	-	-	-	-	-	90
17.5DMEJ6.3	14	-	31	-	-	-	-	-	54
17.5DMEJ10	24	-	48	-	-	-	-	-	41
17.5DMEJ16	23	-	37	-	-	-	-	-	67
17.5DMEJ20	27	-	42	-	-	-	-	-	52.6
17.5DMEJ25	34	-	56	-	-	-	-	-	64
17.5DMEJ31.5	41	-	69	-	-	-	-	-	56.7
17.5DMEJ40	53	-	84	-	-	-	-	-	80
17.5DMEJ50	69	-	101	-	-	-	-	-	90
17.5DMEJ63	89	-	106	-	-	-	-	-	100
17.5THMEJ80	106	-	137	-	-	-	-	-	124
17.5THMEJ100	128	-	182	-	-	-	-	-	136
17.5TKMEJ125	146	-	229	-	-	-	-	-	175

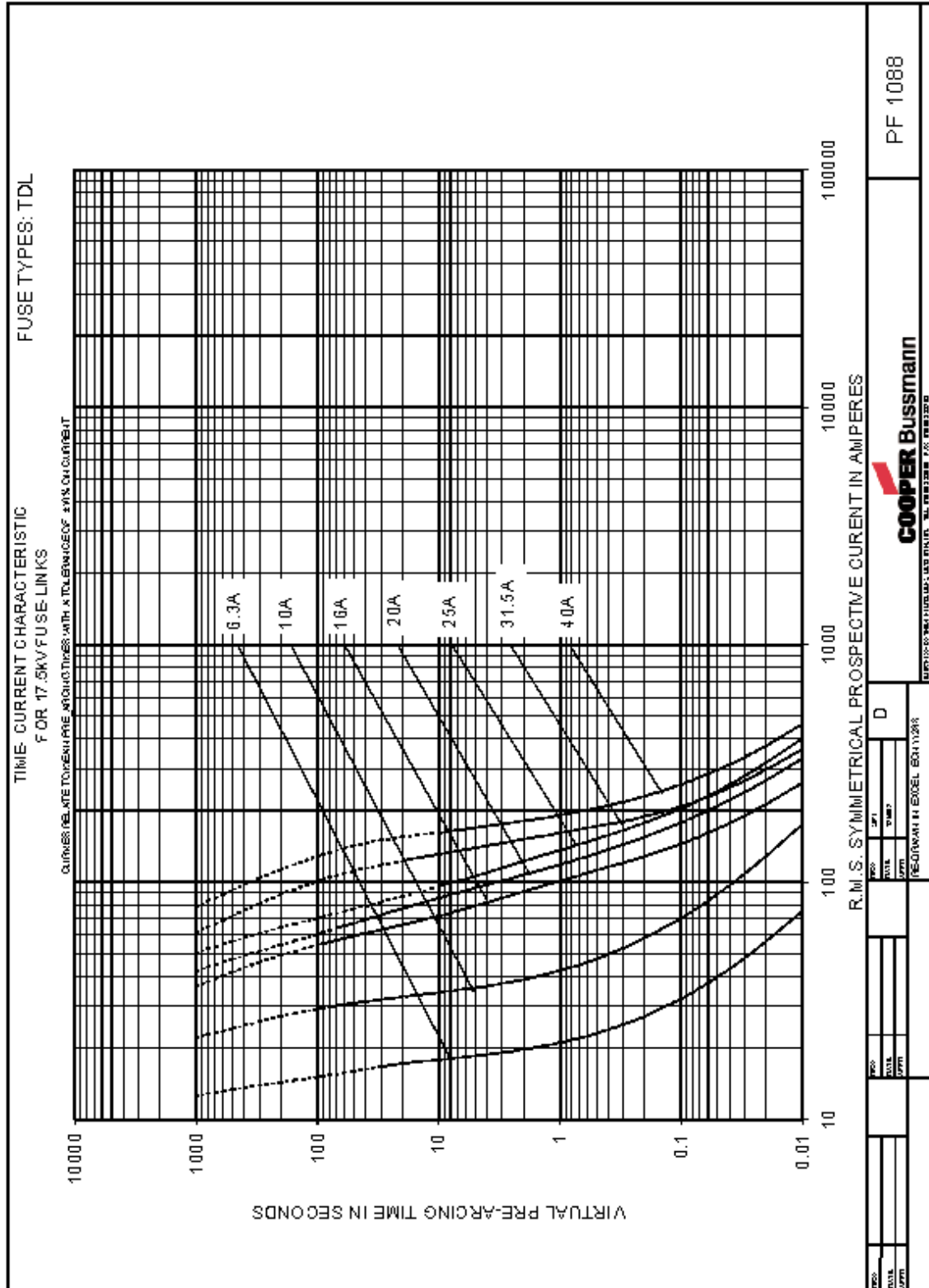


# MEDIUM VOLTAGE DIN Fuse-Links

## 17.5kV, Current Limiting Back-Up Fuse-Links, 6.3 to 125 Amps

**MV DIN**

### Time Current Curves

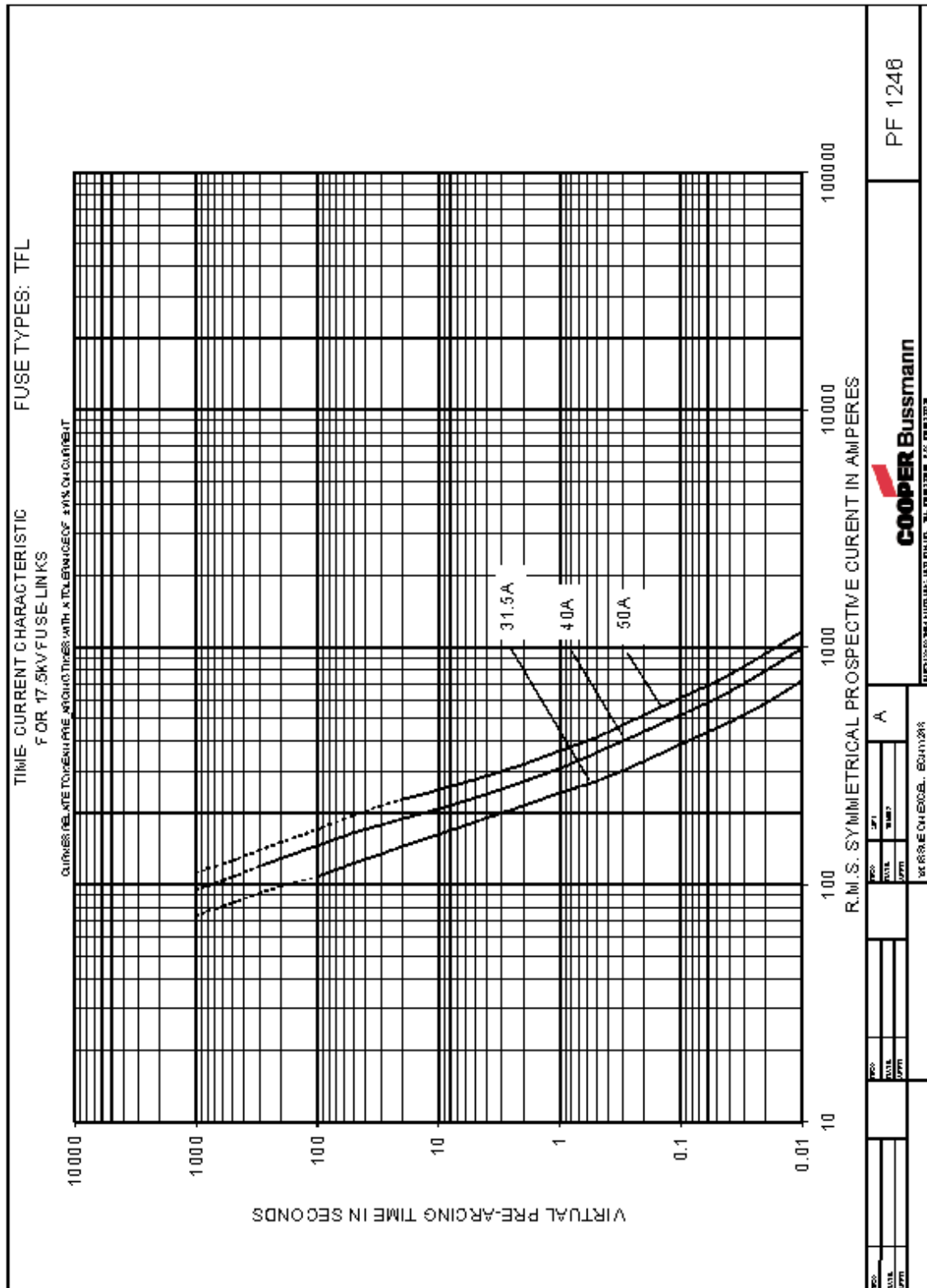


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17.5kV, Current Limiting Back-Up Fuse-Links, 6.3 to 125 Amps

**MV DIN**

## Time Current Curves

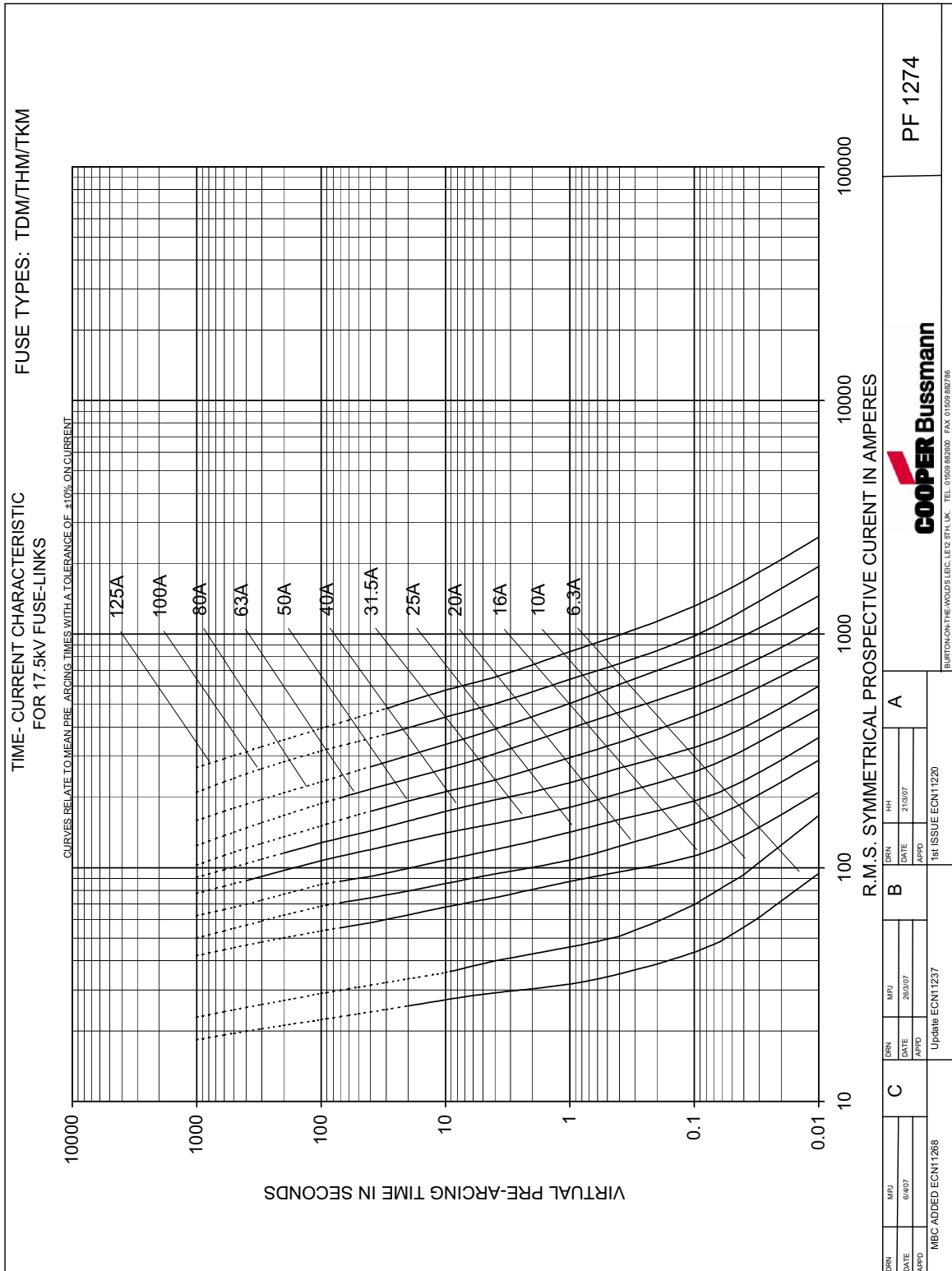


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17.5kV, Current Limiting Back-Up Fuse-Links, 6.3 to 125 Amps

**MV DIN**

## Time Current Curves



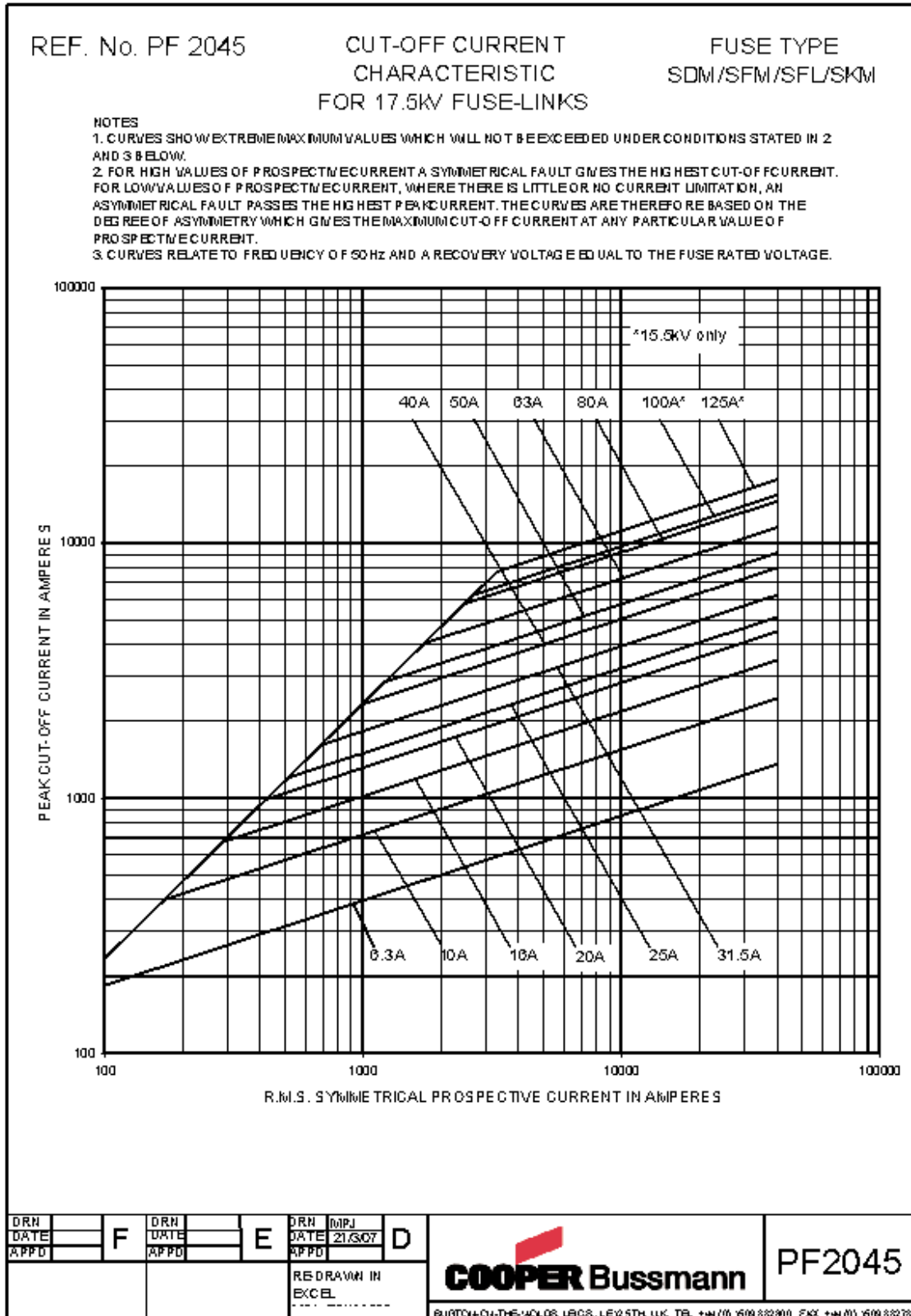


# MEDIUM VOLTAGE DIN Fuse-Links

## 17.5kV, Current Limiting Back-Up Fuse-Links, 6.3 to 125 Amps

**MV DIN**

### Cut-Off Characteristics

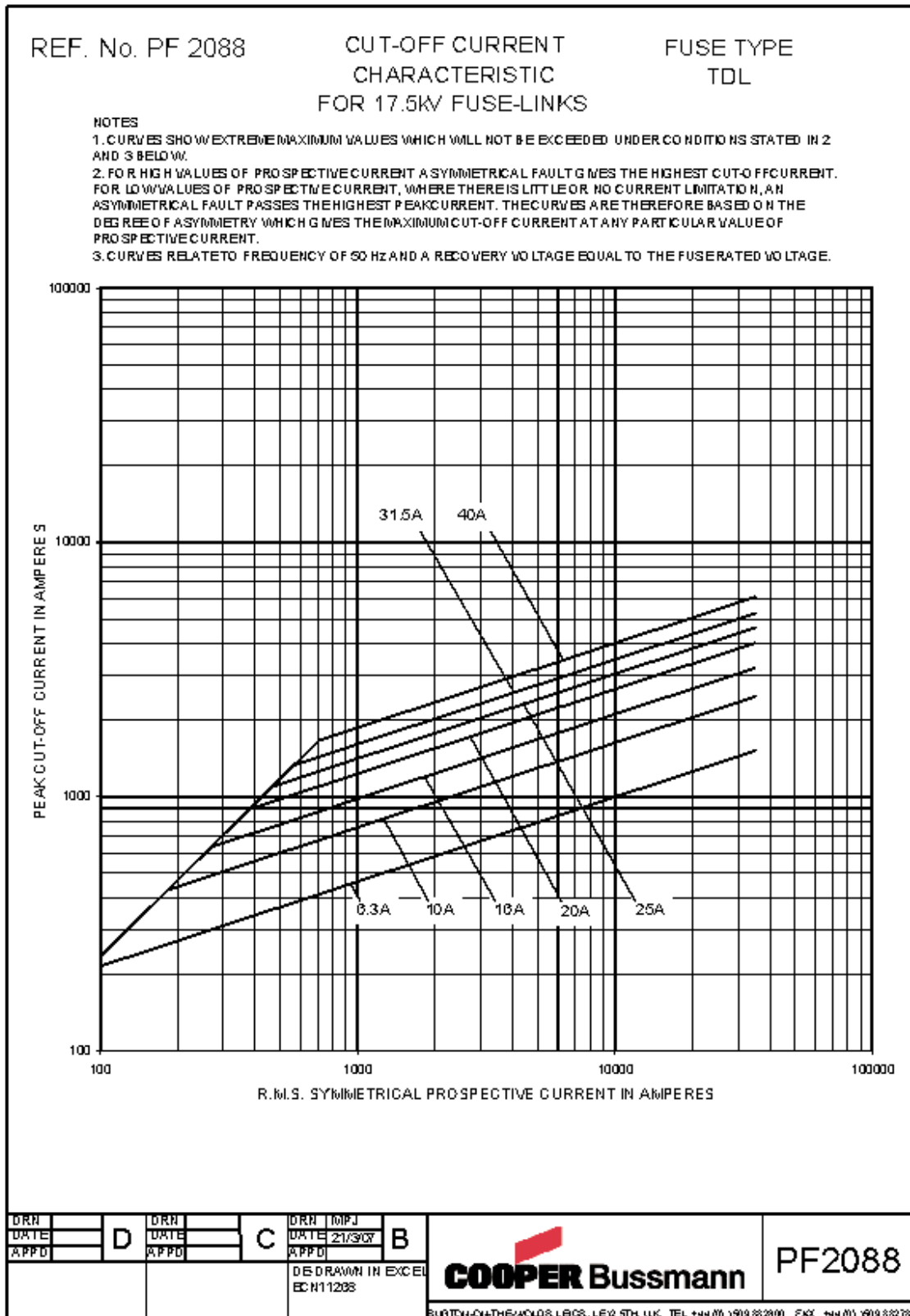


# MEDIUM VOLTAGE DIN Fuse-Links

## 17.5kV, Current Limiting Back-Up Fuse-Links, 6.3 to 125 Amps

**MV DIN**

### Cut-Off Characteristics

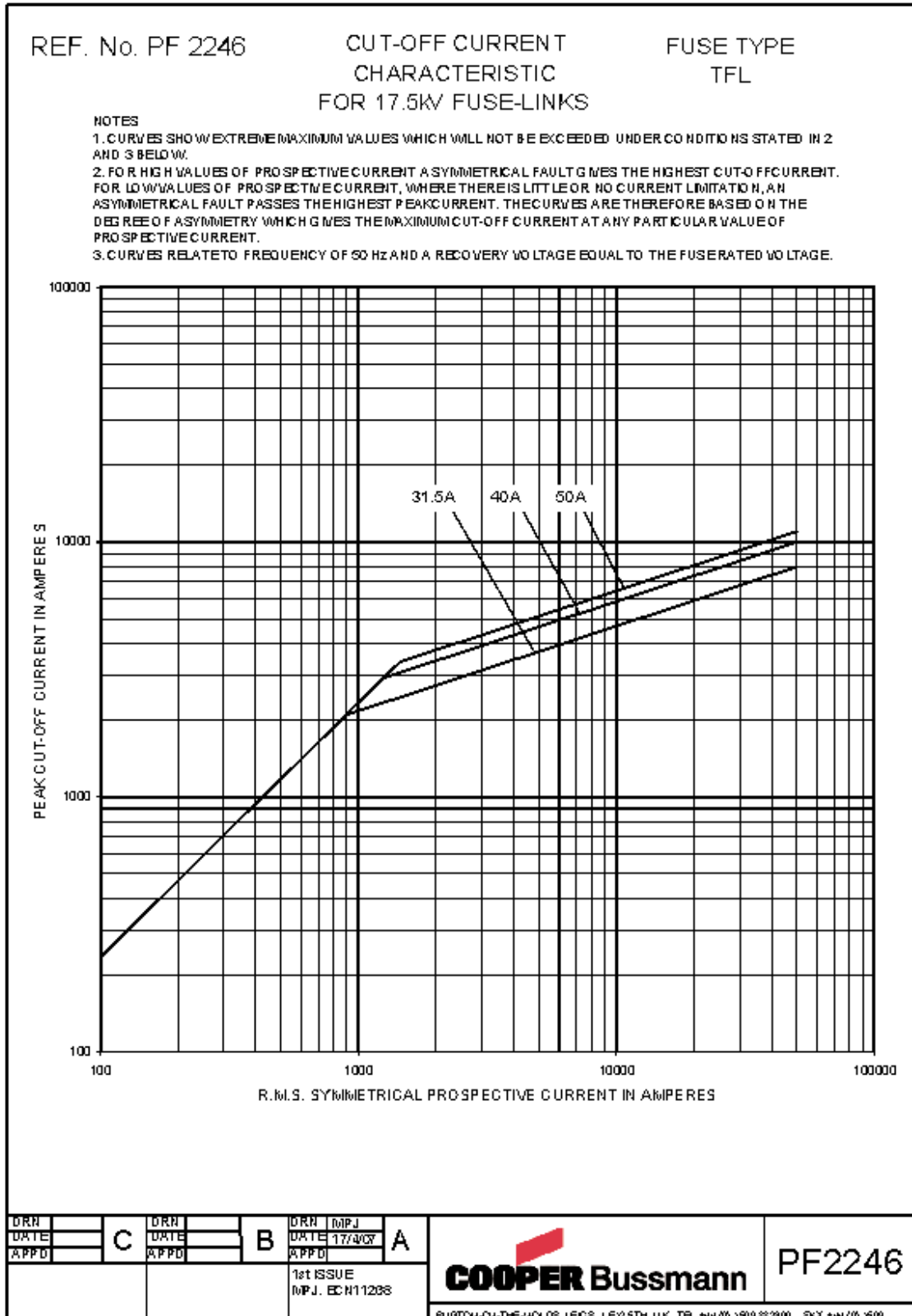


# MEDIUM VOLTAGE DIN Fuse-Links

## 17.5kV, Current Limiting Back-Up Fuse-Links, 6.3 to 125 Amps

**MV DIN**

### Cut-Off Characteristics



# MEDIUM VOLTAGE DIN Fuse-Links

## 17.5kV, Current Limiting Back-Up Fuse-Links, 6.3 to 125 Amps

# MV DIN

ASTA Certificate

# ASTA

## CERTIFICATE OF SELECTED TYPE TESTS

Laboratory Ref. No: DHK007-02

**Certificate No. 16596**

**APPARATUS:** Eight Homogeneous Series of Air Insulated High Voltage Current Limiting Back-up Fuses Fitted with Spring Operated Medium Striker Devices.

Ratings :-	Series 1, Type 17.5TDMEJ6.3	Rated Voltage 17.5kV	Rated Current 6.3A	Rated Frequency 50Hz
	Series 2, Type 17.5TDMEJ10	Rated Voltage 17.5kV	Rated Current 10A	Rated Frequency 50Hz
	Series 3, Type 17.5TDMEJ16	Rated Voltage 17.5kV	Rated Current 16A	Rated Frequency 50Hz
	Type 17.5TDMEJ20	Rated Voltage 17.5kV	Rated Current 20A	Rated Frequency 50Hz
	Type 17.5TDMEJ25	Rated Voltage 17.5kV	Rated Current 25A	Rated Frequency 50Hz
	Type 17.5TDMEJ31.5	Rated Voltage 17.5kV	Rated Current 31.5A	Rated Frequency 50Hz
	Type 17.5TDMEJ40	Rated Voltage 17.5kV	Rated Current 40A	Rated Frequency 50Hz
	Series 4, Type 17.5TDMEJ50	Rated Voltage 17.5kV	Rated Current 50A	Rated Frequency 50Hz
	Series 5, Type 17.5TDMEJ63	Rated Voltage 17.5kV	Rated Current 63A	Rated Frequency 50Hz
	Series 6, Type 17.5THMEJ80	Rated Voltage 17.5kV	Rated Current 80A	Rated Frequency 50Hz
	Series 7, Type 17.5THMEJ100	Rated Voltage 17.5kV	Rated Current 100A	Rated Frequency 50Hz
	Series 8, Type 17.5TKMEJ125	Rated Voltage 17.5kV	Rated Current 125A	Rated Frequency 50Hz

**DESIGNATION:** Types "17.5TDMEJ6.3 to 63, 17.5THMEJ80 to 100, 17.5TKMEJ125"

**MANUFACTURER:** Cooper Bussmann India Private Limited, Evr Street, Sedarapet, Pondicherry - 605111, India.

**TESTED BY:** Dean H. Klohr Low Power Test Facility, Burton-on-the-Wolds, Loughborough, Leicestershire, LE12 5TH, United Kingdom.

**DATE OF TESTS:** 12th October 2006 to 15th February 2007

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

- IEC 60282-1:2005**
- Sub-clause 6.5 - Temperature-rise tests and power-dissipation measurement
  - Sub-clause 6.7 - Tests for time-current characteristics
  - Sub-clause 6.8 - Tests of strikers
  - Sub-clause 7.3 - Thermal shock tests
  - Sub-clause 7.5 - Waterproof test - (ingress of moisture)
  - Sub-clause 7.6.2 - Pre-arcing temperature rise tests

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 and characteristics assigned by the manufacturer as listed on page number 1.

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

This Certificate comprises 55 pages, 1 diagram, 3 oscillograms, 7 photographs, 16 drawings and no other sheets as detailed in page 2.

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*J. Gould* ..... **ASTA Observer**  
J. Gould

*C. Diack-Evans* ..... **Director**  
C. Diack-Evans

*20th April 2007* ..... **Date**



# MEDIUM VOLTAGE DIN Fuse-Links

17.5kV, Current Limiting Back-Up Fuse-Links, 6.3 to 125 Amps

MV DIN

## KEMA Certificate



**Type test Certificate of breaking performance**

**Cooper Bussmann India Private Limited**  
Sedarapet, Pondicherry, India

has successfully passed the type test sequence on

**Current limiting fuses**

Type: 17.5TDLEJ6.3, 17.5TDMEJ6.3, 17.5TDLEJ10, 17.5TDMEJ10, 17.5TDMEJ16, 17.5TDMEJ20, 17.5TDMEJ25, 17.5TDMEJ31.5, 17.5TDMEJ40, 17.5TDMEJ50, 17.5TDMEJ63, 17.5THMEJ80, 17.5THMEJ100, 17.5TKMEJ125

Rating: 17,5 kV – 50 kA – 50 Hz

The test object passed the specification of test duties of

**IEC 60282-1**

The test results are recorded in Certificate No.

**104-06**

This Certificate is issued on 17 April 2007

KEMA Nederland B.V.



P.G.A. Bus  
KEMA T&D Testing Services  
Managing Director



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Please note that this document has been issued for information purposes only, and that the original bound and sealed paper copy of the Certificate including the results of the tests of the apparatus will prevail. This document does not imply that KEMA has certified or approved any apparatus other than the specimen tested.


Experience you can trust.

# MEDIUM VOLTAGE DIN Fuse-Links

## 17.5kV, Current Limiting Back-Up Fuse-Links, 6.3 to 125 Amps

MV DIN

### KEMA Certificate


104-06

### TYPE TEST CERTIFICATE OF BREAKING PERFORMANCE

**APPARATUS** Current limiting fuses

Designation	Rated voltage	Rated breaking capacity	Rated current	Minimum breaking current	Rated frequency
	kV	kA	A	A	Hz
17.5TDLEJ6.3, 17.5TDMEJ6.3 (1)	17,5	50	6,3	25	50
17.5TDLEJ10, 17.5TDMEJ10 (1)	17,5	50	10	36	50
17.5TDMEJ16 (1)	17,5	50	16	55	50
17.5TDMEJ20 (1)	17,5	50	20	69	50
17.5TDMEJ25 (1)	17,5	50	25	87	50
17.5TDMEJ31.5 (1)	17,5	50	31,5	87	50
17.5TDMEJ40 (1)	17,5	50	40	111	50
17.5TDMEJ50	17,5	50	50	174	50
17.5TDMEJ63	17,5	50	63	200	50
17.5THMEJ80	17,5	50	80	270	50
17.5THMEJ100	17,5	50	100	376	50
17.5TKMEJ125	17,5	50	125	467	50

(1) See notes on page 7.

**MANUFACTURER** Cooper Bussmann India Private Limited,  
Sedarapet, Pondicherry, India

**TESTED FOR** Cooper Bussmann (UK) Limited,  
Burton-on-the-Wolds, United Kingdom

**TESTED BY** KEMA HIGH-POWER LABORATORY  
Utrechtseweg 310 - 6812 AR Arnhem - The Netherlands

**DATE(S) OF TESTS** 6, 7, 8 September 2006 and 15, 16 January, 1 February 2007

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

**IEC 60282-1** clause 6.6 (test duty 1, 2 and 3).

This Type Test Certificate has been issued by KEMA following exclusively the STL Guides.

**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 and to justify the ratings assigned by the manufacturer as listed on page 6.**


The Certificate 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 consists of 195 sheets in total.

This Certificate falls under the scope of the accreditation certificate L 020 of the Dutch Council for Accreditation. See information sheet (page 2).

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KEMA Nederland B.V.



P.G.A. Bus  
KEMA T&D Testing Services  
Managing Director

Arnhem, 17 April 2007