

# MEDIUM VOLTAGE DIN Fuse-Links

## 7.2kV, Current Limiting Back-Up Fuse-Links, 6.3 to 160 Amps

**MV DIN**



**Standards/Approvals:**

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

**Description:**

A range of medium voltage DIN Fuses, complete with 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 3's.  
MOQ: 3  
Packaging 100% recyclable

**Catalogue Symbol:** 7.2TDLSJ(amp)  
7.2TFLSJ(amp)

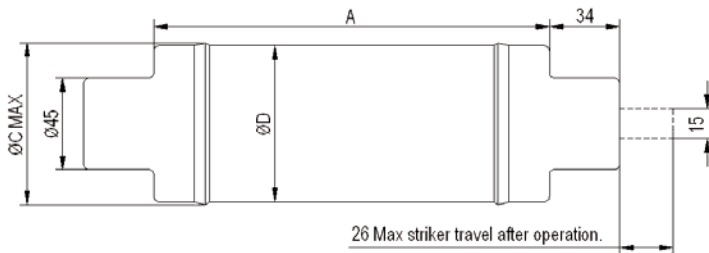
**Class of Operation:** Back-up as IEC 60282-1 (2005)

**Dimensional Data:**

Fuse Reference	A	C	D	Weight (Kg)
TDLSJ	292	54	51	1.63
TFLSJ	292	80	76	3.1

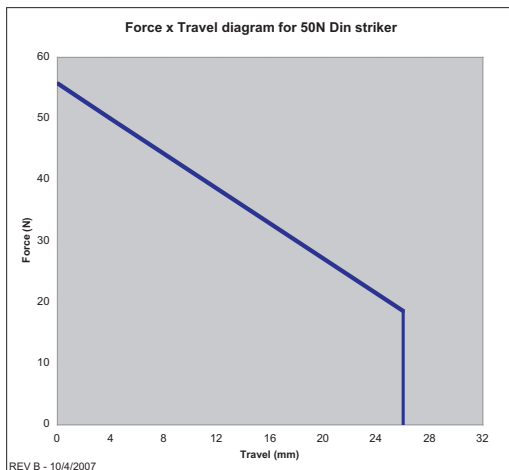
**Technical Data:**

DIN fuse-links  
Rated voltage: 7.2kV  
Amps: 6.3A to 160A  
Rated breaking capacity: 40kA  
Rated frequency: 50 - 60Hz  
Suitable for outdoor and indoor use  
RoHS compliant



**Striker Diagram:**

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



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### Table of Ratings:

**Standards/Approvals:** DIN 43625, VDE 0670 part 4 and IEC 60282-1 (2005)  
**Rated Currents:** 6.3, 10, 16, 20, 25, 31.5, 40, 50, 63, 80, 100, 125, 160 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			
7.2TDLSJ10	10	40	31	99.7	19	$2.5 \times 10^2$	$2.7 \times 10^3$	292	51	1.63
7.2TDLSJ16	16	40	49	65.1	23	$5.5 \times 10^2$	$8.2 \times 10^3$	292	51	1.63
7.2TDLSJ20	20	40	49	48.9	27	$9.7 \times 10^2$	$1.1 \times 10^4$	292	51	1.63
7.2TDLSJ25	25	40	80	32.6	28	$5.7 \times 10^2$	$8.0 \times 10^3$	292	51	1.63
7.2TDLSJ31.5	31.5	40	100	26.0	36	$8.9 \times 10^2$	$1.0 \times 10^4$	292	51	1.63
7.2TDLSJ40	40	40	114	16.0	36	$2.0 \times 10^2$	$2.2 \times 10^4$	292	51	1.63
7.2TDLSJ50	50	40	143	12.9	46	$3.2 \times 10^2$	$3.2 \times 10^4$	292	51	1.63
7.2TDLSJ63	63	40	180	8.14	45	$8.0 \times 10^2$	$7.5 \times 10^4$	292	51	1.63
7.2TFLSJ80	80	40	264	6.01	54	$5.0 \times 10^3$	$6.5 \times 10^4$	292	76	3.1
7.2TFLSJ100	100	40	338	4.65	64	$9.1 \times 10^3$	$1.1 \times 10^5$	292	76	3.1
7.2TFLSJ125	125	40	375	3.60	79	$1.5 \times 10^4$	$1.7 \times 10^5$	292	76	3.1
7.2TFLSJ160	160	40	525	2.73	97	$3.0 \times 10^4$	$3.1 \times 10^5$	292	76	3.1

### Cross-Reference

Bussmann	EFEN	SIBA	MESA	ETI	ETI	Merlin Gerin	eimren	INTEL	ABB
				80N Striker	50N Striker			(type)	
7.2TDLSJ6.3	N/A	3009813	N/A	N/A	N/A	N/A	N/A	N/A	1YMB531034M0001
7.2TDLSJ10	N/A	3009813	N/A	N/A	N/A	N/A	N/A	N/A	1YMB531034M0002
7.2TDLSJ16	N/A	3009813	N/A	N/A	N/A	N/A	N/A	N/A	1YMB531034M0003
7.2TDLSJ20	N/A	3009813	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7.2TDLSJ25	N/A	3009813	N/A	N/A	N/A	N/A	N/A	N/A	1YMB531034M0004
7.2TDLSJ31.5	N/A	3009813	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7.2TDLSJ40	N/A	3009813	N/A	N/A	N/A	N/A	N/A	N/A	1YMB531034M0005
7.2TDLSJ50	N/A	3009813	N/A	N/A	N/A	N/A	N/A	N/A	1YMB531034M0006
7.2TDLSJ63	N/A	3009913	N/A	N/A	N/A	N/A	N/A	N/A	1YMB531034M0007
7.2TFLSJ80	N/A	3009913	N/A	N/A	N/A	N/A	N/A	N/A	1YMB531034M0008
7.2TFLSJ100	N/A	3009913	N/A	N/A	N/A	N/A	N/A	N/A	1YMB531034M0009
7.2TFLSJ125	N/A	3009913	CF-7,2/125	N/A	N/A	757352 BN	N/A	N/A	1YMB531034M0010
7.2TFLSJ160	N/A	3010013	CF-7,2/160	N/A	N/A	757352 BP	N/A	N/A	1YMB531034M0011

### Watts Loss Comparison

Lowest Watts Loss

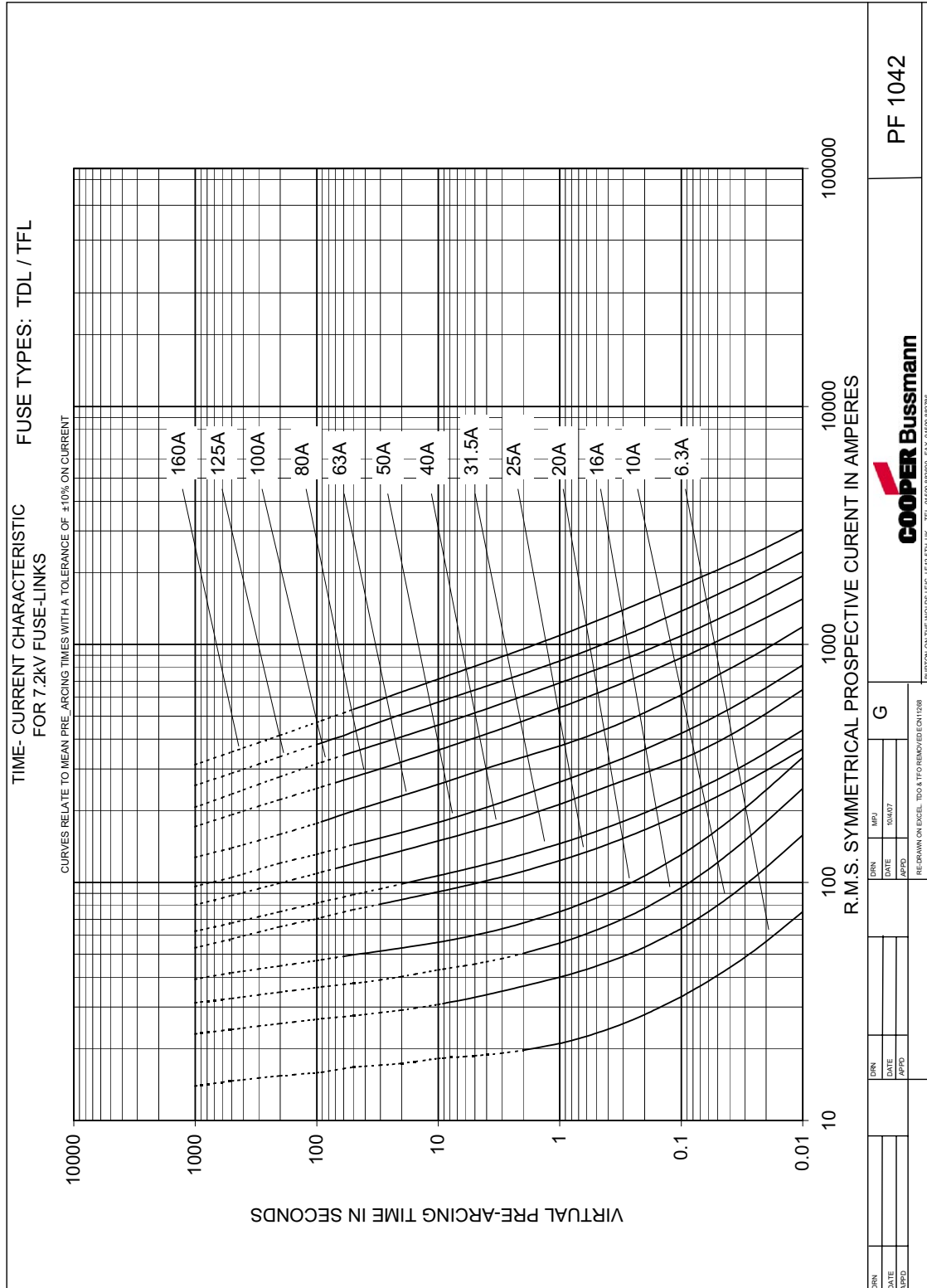
Bussmann	Bussmann	EFEN	SIBA	MESA	ETI	Merlin Gerin	eimren	INTEL	ABB
Part Number	Watts Loss	Watts Loss	Watts Loss	Watts Loss	Watts Loss	Watts Loss	Watts Loss	Watts Loss	Watts Loss
7.2TDLSJ6.3	11	-	8	-	-	-	-	-	26
7.2TDLSJ10	19	-	13	-	-	-	-	-	16
7.2TDLSJ16	23	-	11	-	-	-	-	-	26
7.2TDLSJ20	27	-	13	-	-	-	-	-	-
7.2TDLSJ25	28	-	16	-	-	-	-	-	24
7.2TDLSJ31.5	36	-	21	-	-	-	-	-	-
7.2TDLSJ40	36	-	27	-	-	-	-	-	30
7.2TDLSJ50	46	-	30	-	-	-	-	-	35
7.2TDLSJ63	45	-	34	-	-	-	-	-	40
7.2TFLSJ80	54	-	47	-	-	-	-	-	52
7.2TFLSJ100	64	-	64	-	-	-	-	-	57
7.2TFLSJ125	79	-	98	88	-	88	-	-	76
7.2TFLSJ160	97	-	103	87	-	87	-	-	101

# MEDIUM VOLTAGE DIN Fuse-Links

7.2kV, Current Limiting Back-Up Fuse-Links, 6.3 to 160 Amps

MV DIN

## Time Current Characteristics



# MEDIUM VOLTAGE DIN Fuse-Links

## 7.2kV, Current Limiting Back-Up Fuse-Links, 6.3 to 160 Amps

**MV DIN**

### Cut-Off Curves

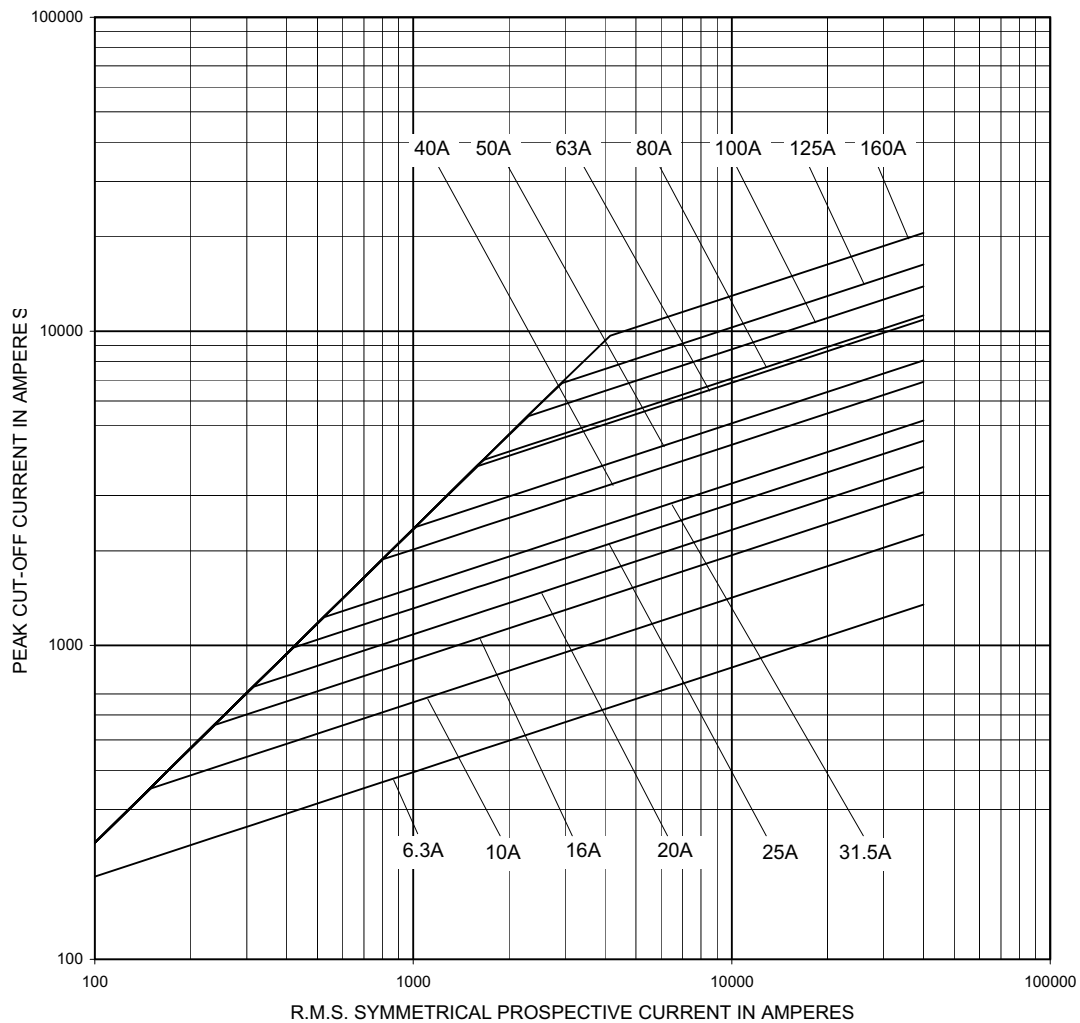
REF. No. PF 2042


**CUT-OFF CURRENT  
CHARACTERISTIC  
FOR 7.2kV FUSE-LINKS**

**FUSE TYPE  
TDL/TFL**

**NOTES**

1. CURVES SHOW EXTREME MAXIMUM VALUES WHICH WILL NOT BE EXCEEDED UNDER CONDITIONS STATED IN 2 AND 3 BELOW.
2. FOR HIGH VALUES OF PROSPECTIVE CURRENT A SYMMETRICAL FAULT GIVES THE HIGHEST CUT-OFF CURRENT. FOR LOW VALUES OF PROSPECTIVE CURRENT, WHERE THERE IS LITTLE OR NO CURRENT LIMITATION, AN ASYMMETRICAL FAULT PASSES THE HIGHEST PEAK CURRENT. THE CURVES ARE THEREFORE BASED ON THE DEGREE OF ASYMMETRY WHICH GIVES THE MAXIMUM CUT-OFF CURRENT AT ANY PARTICULAR VALUE OF PROSPECTIVE CURRENT.
3. CURVES RELATE TO FREQUENCY OF 50 Hz AND A RECOVERY VOLTAGE EQUAL TO THE FUSE RATED VOLTAGE.

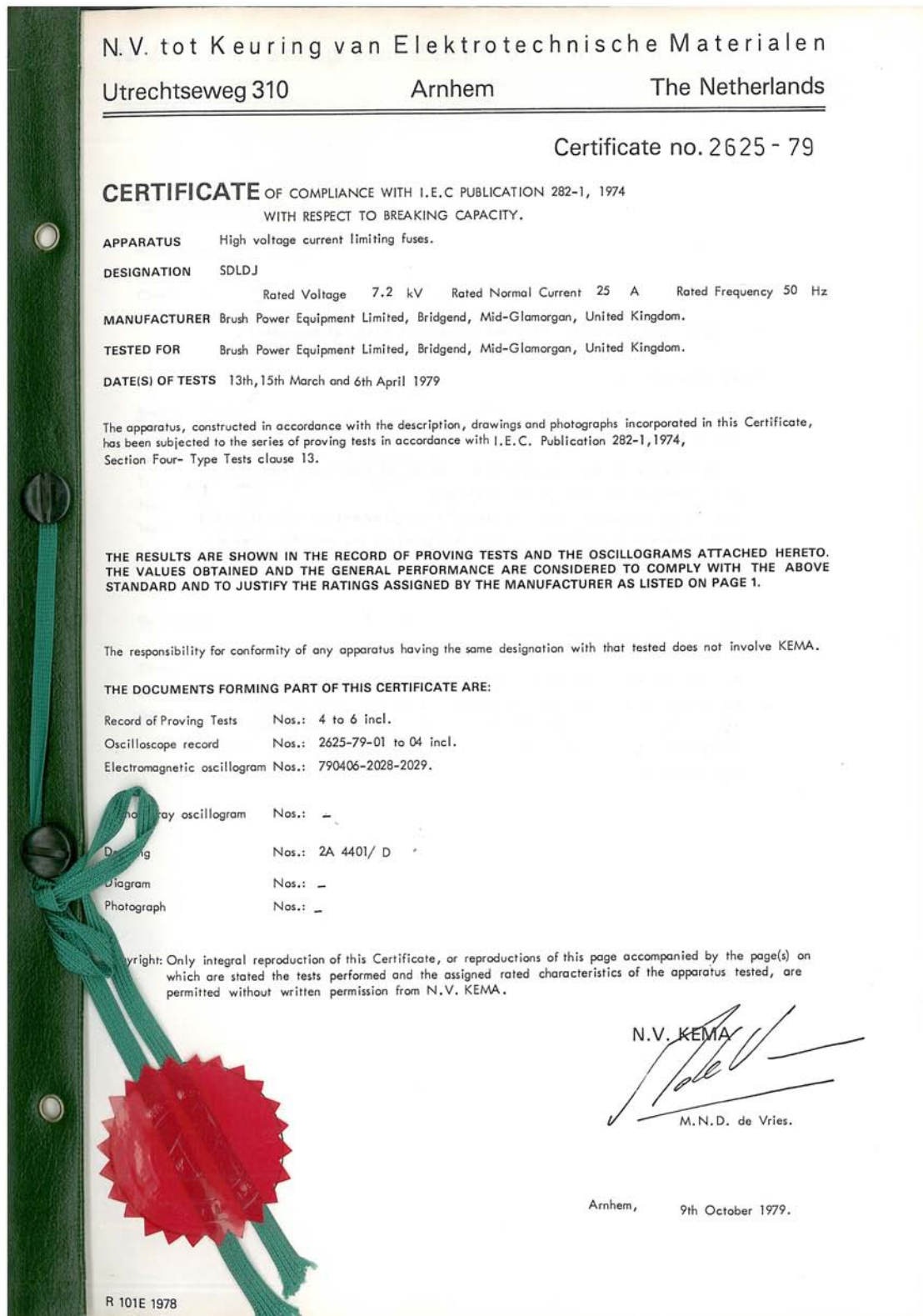


DRN		DRN		DRN	MPJ	D		PF2042
DATE		DATE		DATE	12/4/07			
APPD	F	APPD	E	APPD				
				RE-DRAWN IN EXCEL TFO & TDO REMOVED. MPJ. ECN11268		BURTON-ON-THE-WOLDS, LEICS., LE12 5TH, U.K. TEL +44 (0) 1509 882600 FAX +44 (0) 1509		

**MEDIUM VOLTAGE DIN Fuse-Links**  
**7.2kV, Current Limiting Back-Up Fuse-Links, 6.3 to 160 Amps**

**MV DIN**

**KEMA Certificate**



This certificate refers to SLDLJ 7.2kV fuse-links, which are electrically identical to the new T range, other than the fuses are sealed for outdoor use, have a brown ceramic body and use a 50N striker.

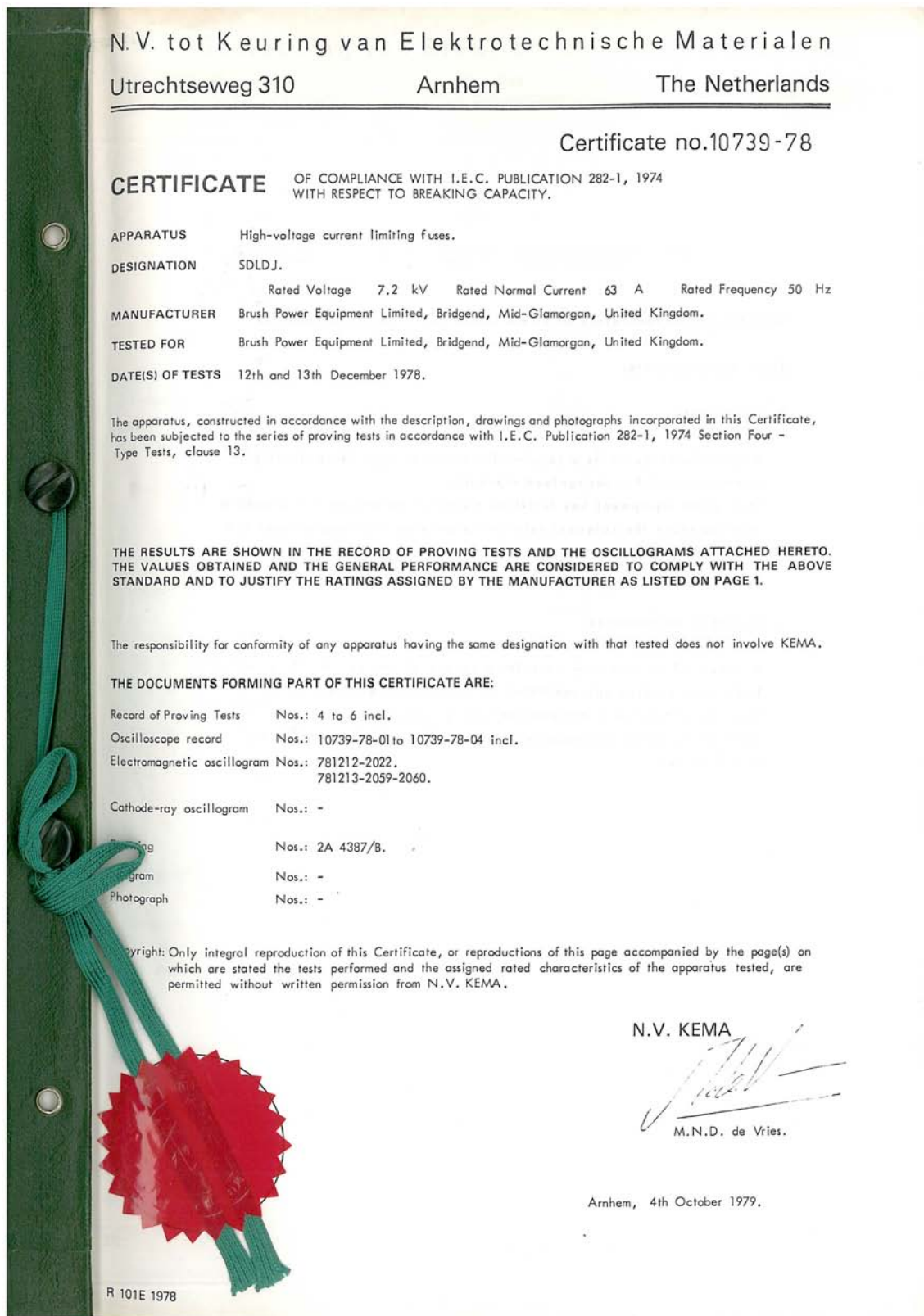


# MEDIUM VOLTAGE DIN Fuse-Links

## 7.2kV, Current Limiting Back-Up Fuse-Links, 6.3 to 160 Amps

### MV DIN

### KEMA Certificate



This certificate refers to SDLDJ 7.2kV fuse-links, which are electrically identical to the new T range, other than the fuses are sealed for outdoor use, have a brown ceramic body and use a 50N striker.

# MEDIUM VOLTAGE DIN Fuse-Links

## 7.2kV, Current Limiting Back-Up Fuse-Links, 6.3 to 160 Amps

MV DIN

### KEMA Certificate

N.V. tot Keuring van Elektrotechnische Materialen  
 Utrechtseweg 310                      Arnhem                      The Netherlands

Certificate no. 10740 -78

**CERTIFICATE** OF COMPLIANCE WITH I.E.C. PUBLICATION 282-1, 1974  
 WITH RESPECT TO BREAKING CAPACITY.

APPARATUS            High-voltage current limiting fuses.

DESIGNATION        SFLDJ.  
                                  Rated Voltage 7.2 kV    Rated Normal Current 80 A    Rated Frequency 50 Hz

MANUFACTURER    Brush Power Equipment Limited, Bridgend, Mid-Glamorgan, United Kingdom.

TESTED FOR        Brush Power Equipment Limited, Bridgend, Mid-Glamorgan, United Kingdom.

DATE(S) OF TESTS 12<sup>th</sup> and 13<sup>th</sup> December 1978

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 I.E.C. Publication 282-1, 1974 Section Four - Type Tests, clause 13.


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 1.

The responsibility for conformity of any apparatus having the same designation with that tested does not involve KEMA.

THE DOCUMENTS FORMING PART OF THIS CERTIFICATE ARE:

Record of Proving Tests	Nos.: 4 to 6 incl.
Oscilloscope record	Nos.: 10740-78-01 to 10740-78-04 incl.
Electromagnetic oscillogram	Nos.: 781213-2062-2063.
Calculation oscillogram	Nos.: -
Drawing	Nos.: 2A 4390/D.
Diagram	Nos.: -
Photograph	Nos.: -

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N.V. KEMA  
  
 M.N.D. de Vries.  
 Arnhem, 4th October 1979.

R 101E 1978

This certificate refers to SFLDJ 7.2kV fuse-links, which are electrically identical to the new T range, other than the fuses are sealed for outdoor use, have a brown ceramic body and use a 50N striker.

# MEDIUM VOLTAGE DIN Fuse-Links

## 7.2kV, Current Limiting Back-Up Fuse-Links, 6.3 to 160 Amps

**MV DIN**

### KEMA Certificate

N.V. tot Keuring van Elektrotechnische Materialen  
 Utrechtseweg 310 Arnhem The Netherlands

Certificate no.2624-79

**CERTIFICATE** OF COMPLIANCE WITH I.E.C PUBLICATION 282-1, 1974  
 WITH RESPECT TO BREAKING CAPACITY.

APPARATUS High-voltage current limiting fuses.

DESIGNATION SFLDJ

Rated Voltage 7.2 kV Rated Normal Current 160 A Rated Frequency 50 Hz

MANUFACTURER Brush Power Equipment Limited, Bridgend, Mid-Glamorgan United Kingdom.

TESTED FOR Brush Power Equipment Limited, Bridgend, Mid-Glamorgan United Kingdom.

DATE(S) OF TESTS 13th March and 6th April, 1979

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 I.E.C Publication 282-1, 1974 Section Four, Type-Tests, clause 13.


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 1.

The responsibility for conformity of any apparatus having the same designation with that tested does not involve KEMA.

THE DOCUMENTS FORMING PART OF THIS CERTIFICATE ARE:

Record of Proving Tests	Nos.:	4 to 6 incl.
Oscilloscope record	Nos.:	2624-79-01 to 2624-79-04 incl.
Electromagnetic oscillogram	Nos.:	790406-2024-2025.
Cathode-ray oscillogram	Nos.:	-
Drawing	Nos.:	2 A 4403/E.
Diagram	Nos.:	-
Photograph	Nos.:	-

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N.V. KEMA  
  
 M.N.D. de Vries

Arnhem, 9th October 1979.

R 101E 1978

This certificate refers to SFLDJ 7.2kV fuse-links, which are electrically identical to the new T range, other than the fuses are sealed for outdoor use, have a brown ceramic body and use a 50N striker.



# MEDIUM VOLTAGE DIN Fuse-Links

## 7.2kV, Current Limiting Back-Up Fuse-Links, 6.3 to 160 Amps

MV DIN

### KEMA Certificate

N.V. tot Keuring van Elektrotechnische Materialen  
 Utrechtseweg 310                      Arnhem                      The Netherlands

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Certificate no. 2347-79

**CERTIFICATE** OF COMPLIANCE WITH BS 2692: PART 1: 1975  
 WITH RESPECT TO BREAKING CAPACITY.

APPARATUS	High-voltage fuses
DESIGNATION	SDDLJ
	Rated Voltage    7.2 kV    Rated Normal Current    20 A    Rated Frequency    50 Hz
MANUFACTURER	Brush Power Equipment Limited, Bridgend, Mid-Glamorgan, United Kingdom
TESTED FOR	Brush Power Equipment Limited, Bridgend, Mid-Glamorgan, United Kingdom
DATE(S) OF TESTS	15th May 1979

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 BS 2692: Part 1: 1975 Section Four-Type Tests, clause 13.

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 1.

The responsibility for conformity of any apparatus having the same designation with that tested does not involve KEMA.

THE DOCUMENTS FORMING PART OF THIS CERTIFICATE ARE:

Record of Proving Tests	Nos.: 4 to 6 incl.
Oscilloscope record	Nos.: 2347-79-01 to 05 incl.
Electromagnetic oscillogram	Nos.: 790515-2048-2049
Cathode-ray oscillogram	Nos.: -
Drawing	Nos.: 2A 4415/B.
Diagram	Nos.: -
Photograph	Nos.: -

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N.V. KEMA

M.N.D. de Vries  
 Arnhem, 13th December 1979

R 101E 1978

This certificate refers to SDDLJ 7.2kV fuse-links, which are electrically identical to the new T range, other than the fuses are sealed for outdoor use, have a brown ceramic body and use a 50N striker.

