

MEDIUM VOLTAGE DIN Fuse-Links

36kV, Current Limiting Back-Up Fuse-Links, 3.15 to 63 Amps

MV DIN



Catalogue Symbol: 36TDQSJ(amp)
36TFQSJ(amp)
36TXQEJ(amp)

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

Dimensional Data:

Fuse Reference	A	C	D	Weight (Kg)
TDQSJ	537	54	51	2.9
TFQSJ	537	80	76	6.0
TXQEJ	537	88	88	6.5

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.

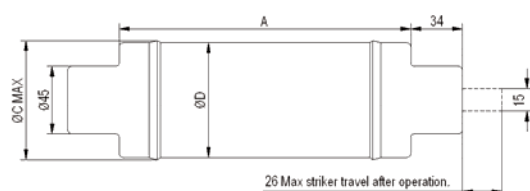
Packaging:

All fuse-links are individually.
MOQ: 3
Packaging 100% recyclable

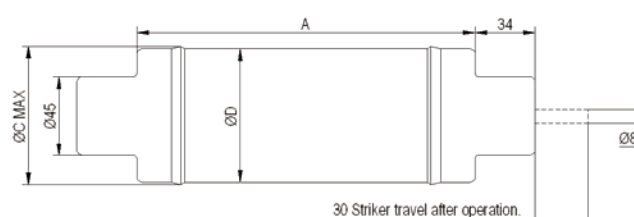
Technical Data:

DIN fuse-links
Rated voltage: 17.5kV - 36kV
Amps: 3.15A to 63A
Rated breaking capacity: 20kA to 35.5kA
Rated frequency: 50Hz - 60Hz
Suitable for outdoor and indoor use
RoHS compliant

SJ Outline



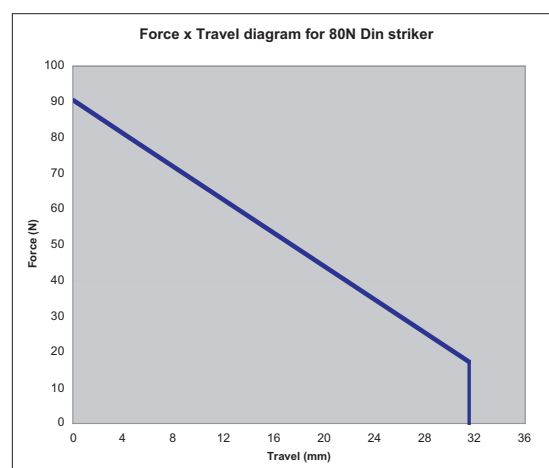
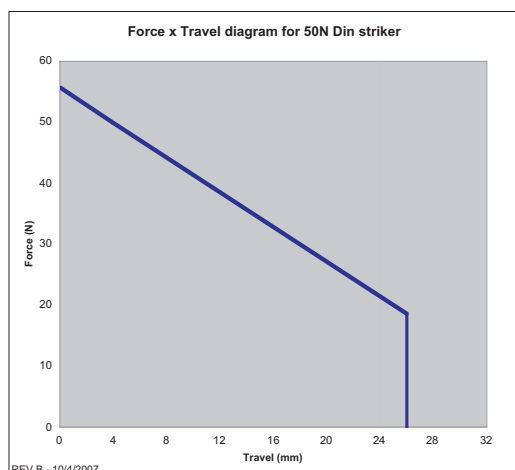
EJ Outline



Striker Diagram:

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

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



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Table of Ratings

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

Technical Data: 3.15, 6.3, 10, 16, 20, 25, 31.5, 40, 50, 63 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			
36TDQSJ3.15	3.15	20	23	1455	18	2.0×10^1	2.4×10^2	537	51	2.9
36TDQSJ6.3	6.3	35.5	23	684	34	1.0×10^2	1.2×10^3	537	51	2.9
36TDQSJ10	10	35.5	35	402	44	3.1×10^2	3.6×10^3	537	51	2.9
36TDQSJ16	16	35.5	70	165	52	4.6×10^2	5.1×10^3	537	51	2.9
36TDQSJ20	20	35.5	98	117	62	8.9×10^2	8.2×10^4	537	51	2.9
36TDQSJ25	25	35.5	112	98.0	85	1.2×10^3	1.5×10^4	537	51	2.9
36TFQSJ31.5	31.5	35.5	116	73.4	96	2.1×10^3	2.3×10^4	537	51	6.0
36TFQSJ40	40	35.5	178	52.4	116	4.1×10^3	3.9×10^4	537	76	6.0
36TFQSJ50	50	35.5	255	36.8	133	8.3×10^3	8.1×10^4	537	76	6.0
36TXQEJ63*	63	20	360	35.0	271	1.1×10^4	6.2×10^4	537	88	6.5

* Not compliant with VDE 0670 part 402

Cross-Reference

Bussmann	EFEN	SIBA	MESA	ETI (80N Striker)	ETI (50N Striker)	Merlin Gerin	eimren	INAE	ABB
36TDQSJ3.15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
36TDQSJ6.3	67150.0060	3000813	CF-36/6.3	4266005	4265005	51006 549 M0	ES 6515-006	IB-D1	1YMB531006M0001
36TDQSJ10	67150.0100	3000813	CF-36/10	4266006	4265006	51006 550 M0	ES 6515-010	IB-D1	1YMB531006M0002
36TDQSJ16	67150.0160	3000813	CF-36/16	4266007	4265007	51006 551 M0	ES 6515-016	IB-D1	1YMB531006M0003
36TDQSJ20	67150.0200	3000813	CF-36/20	4266008	4265008	51006 552 M0	ES 6515-020	IB-D1 & IB-D2	N/A
36TDQSJ25	67150.0250	3000813	CF-36/25	4266009	4265009	51006 553 M0	ES 6515-025	IB-D1 & IB-D2	1YMB531006M0004
36TFQSJ31.5	67150.0320	3001613	CF-36/31.5	4266010	4265010	51006 554 M0	ES 6515-030	IB-D2	N/A
36TFQSJ40	67150.0400	3001613	CF-36/40	4266011	4265011	51006 555 M0	ES 6515-040	IB-D2	1YMB531006M0005
36TFQSJ50	67150.0500	3002413	CF-36/50	4266012	4265012	51006 556 M0	ES 6515-050	IB-D3	N/A
36TXQEJ63	67150.0630	3002413	CF-36/63	4266013	4265013	51006 557 M0	ES 6515-063	IB-D3	N/A

Watts Loss Comparison

Lowest Watts Loss

Bussmann	Bussmann	EFEN	SIBA	MESA Watts loss	ETI Watts Loss	Merlin Gerin	eimren	INAE	ABB
Part Number	Watts Loss	Watts Loss	Watts Loss	Watts loss	Watts Loss	Watts Loss	Watts Loss	Watts Loss	Watts Loss
36TDQSJ3.15	-			-		-	-	-	-
36TDQSJ6.3	34	39	42	39	41	39	54	32	137
36TDQSJ10	44	65	70	50	27	50	48	55	93
36TDQSJ16	52	67	79	98	46	98	94	82	109
36TDQSJ20	62	84	66	120	66	120	110	85	-
36TDQSJ25	85	100	87	133	85	133	118	87	144
36TFQSJ31.5	96	119	102	171	113	171	135	125	-
36TFQSJ40	116	176	144	207	134	207	198	164	176
36TFQSJ50	133	183	186	198	112	198	237	195	-
36TXQEJ63	271	271	224	240	175	240	268	235	-

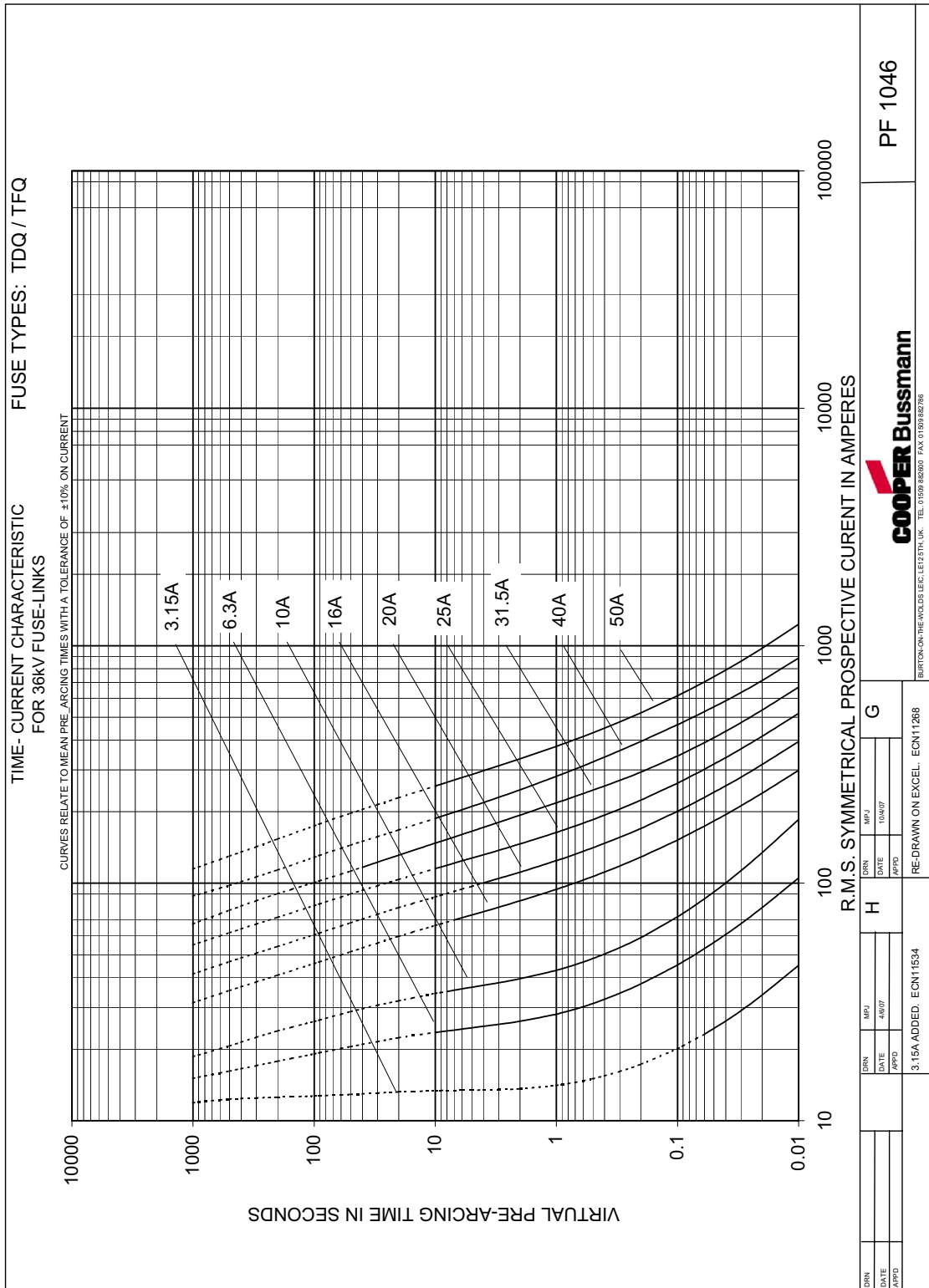


MEDIUM VOLTAGE DIN Fuse-Links

36kV, Current Limiting Back-Up Fuse-Links, 3.15 to 63 Amps

MV DIN

Time Current Curves

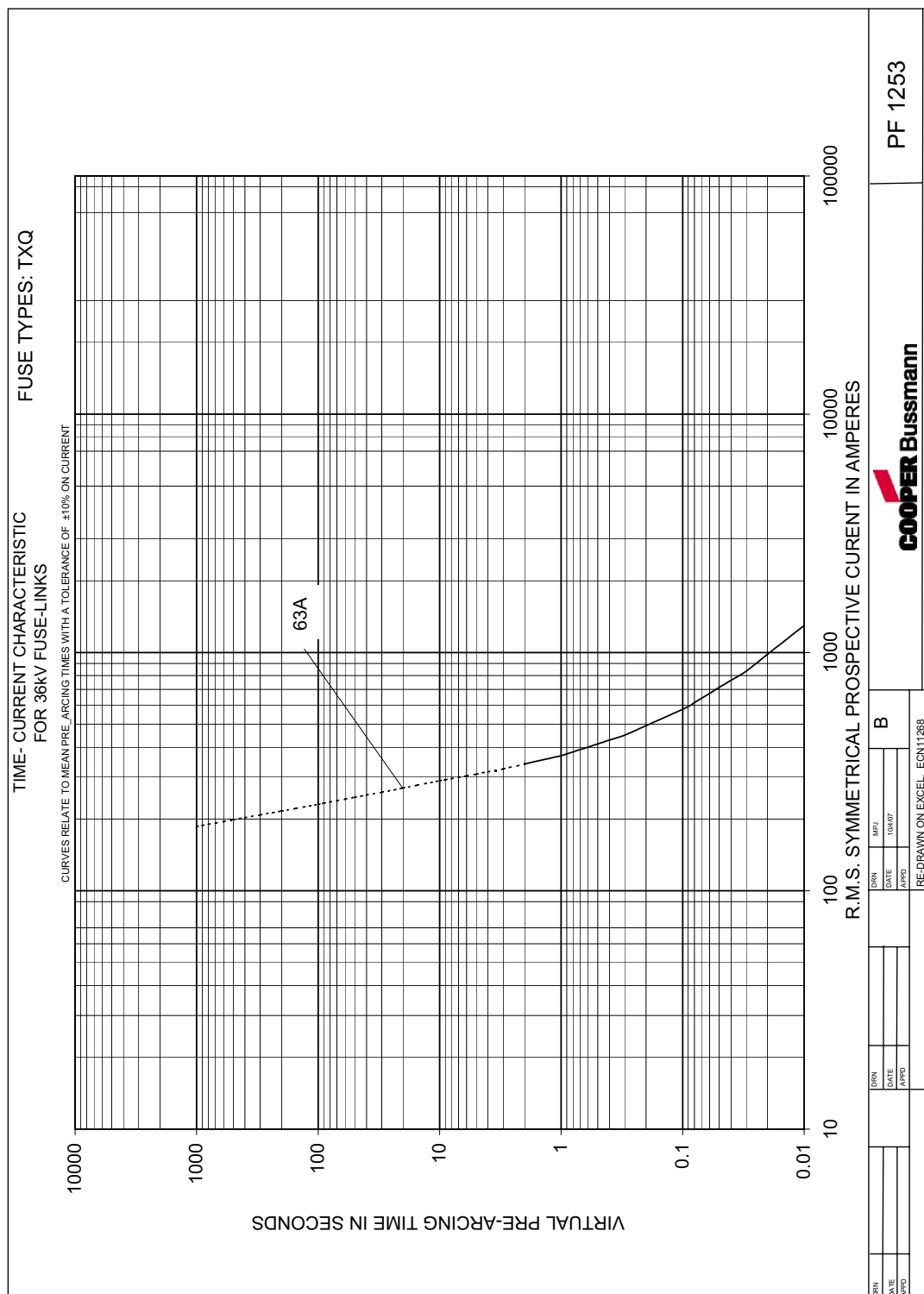


MEDIUM VOLTAGE DIN Fuse-Links

36kV, Current Limiting Back-Up Fuse-Links, 3.15 to 63 Amps

MV DIN

Time Current Curves



MEDIUM VOLTAGE DIN Fuse-Links

36kV, Current Limiting Back-Up Fuse-Links, 3.15 to 63 Amps

MV DIN

Cut-Off Curves

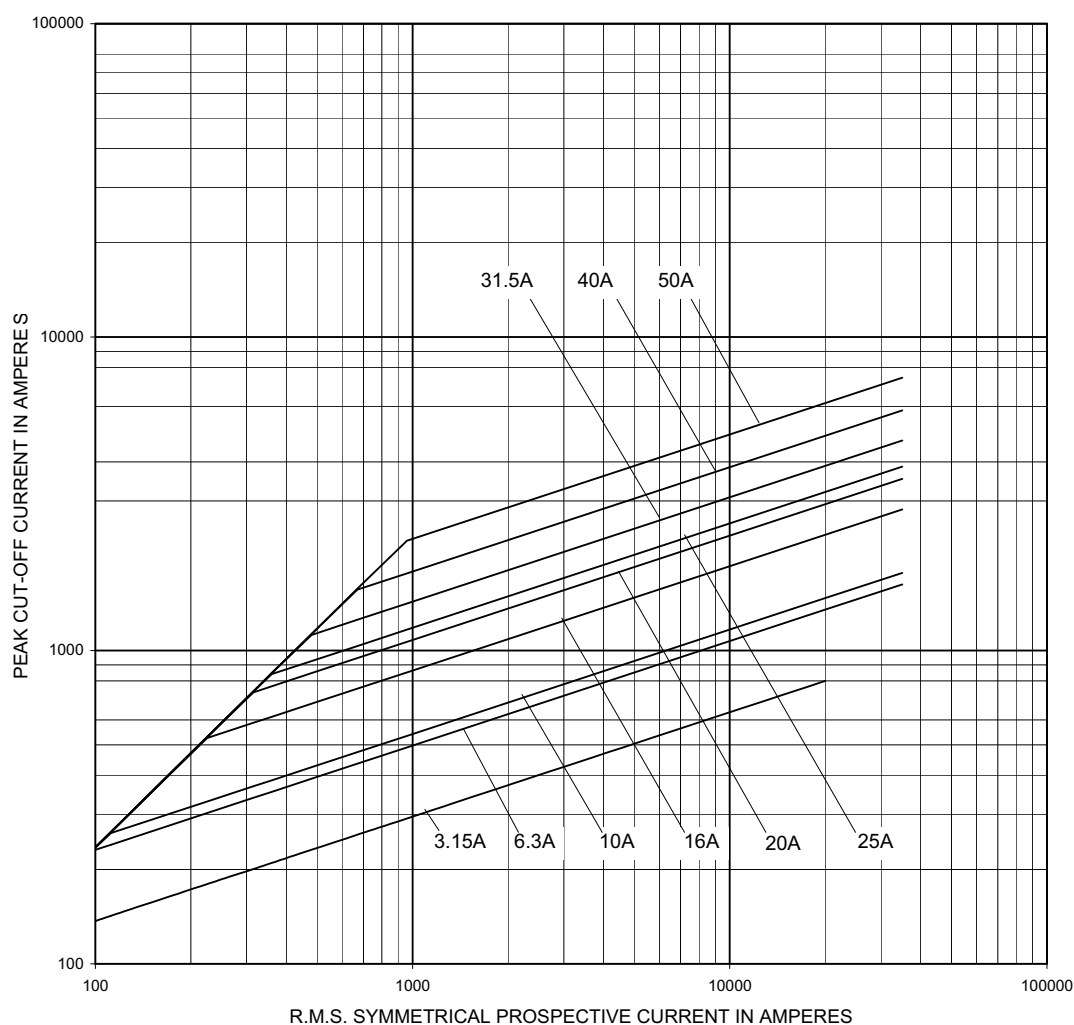
REF. No. PF 2046

**CUT-OFF CURRENT
CHARACTERISTIC
FOR 36kV FUSE-LINKS**

**FUSE TYPE
TDQ/TFQ**

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	MPJ	DRN	MPJ		
DATE		DATE	4/6/07	DATE	21/3/07		
APPD		APPD		APPD			
	F		E		D		
		3.15A ADDED MPJ. ECN11534		RE-DRAWN IN EXCEL MPJ. ECN11268		COOPER Bussmann	PF2046
BURTON-ON-THE-WOLDS, LEICS., LE12 5TH, U.K. TEL +44 (0) 1509 882600 FAX +44 (0) 1509 882788							

MEDIUM VOLTAGE DIN Fuse-Links

36kV, Current Limiting Back-Up Fuse-Links, 3.15 to 63 Amps

MV DIN

Cut-Off Curves 36kV

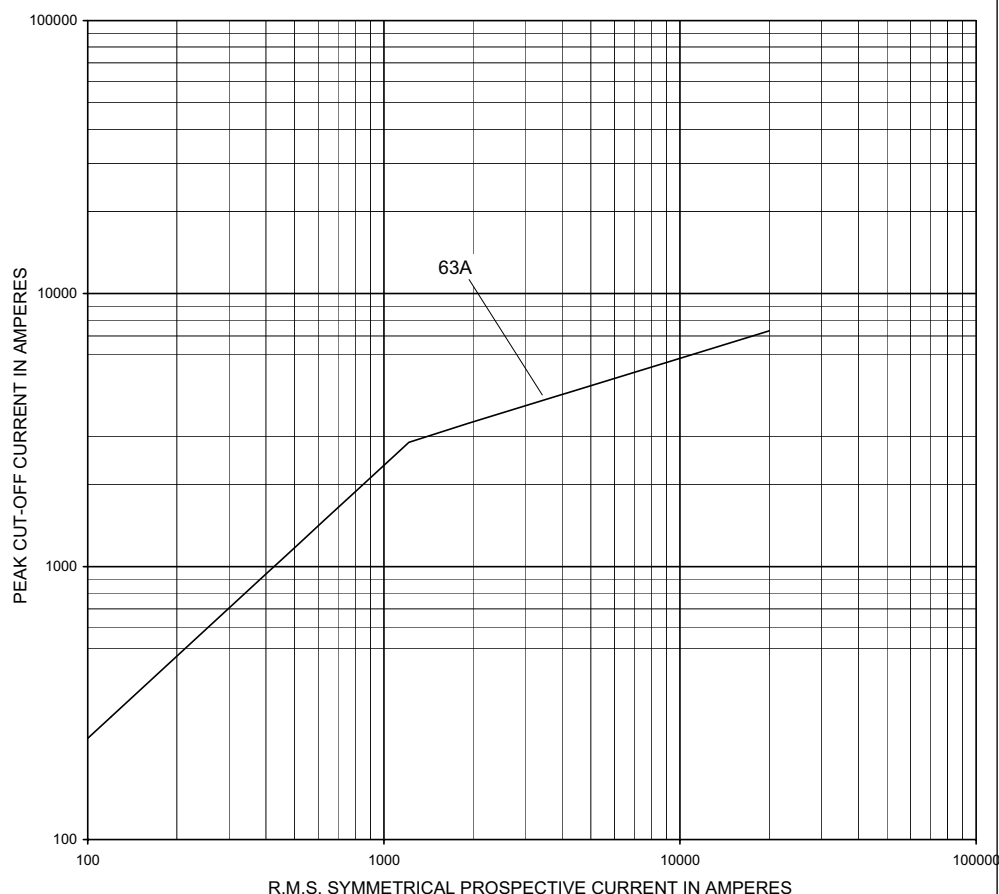
REF. No. PF 2253

CUT-OFF CURRENT
CHARACTERISTIC
FOR 36kV FUSE-LINKS

FUSE TYPE
TXQ

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		
DATE		DATE		DATE	20/4/07		A
APPD	C	APPD	B	APPD			
				1st ISSUE MPJ ECN11268		COOPER Bussmann	
				BURTON-ON-THE-WOLDS, LEICS., LE12 5TH, U.K. TEL +44 (0) 1509 882600 FAX +44 (0) 1509 882786		PF2253	

MEDIUM VOLTAGE DIN Fuse-Links

36kV, Current Limiting Back-Up Fuse-Links, 3.15 to 63 Amps

MV DIN

KEMA Certificate

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

Certificate no. 2708-79

CERTIFICATE OF COMPLIANCE WITH IEC PUBLICATION 282-1, 1974
WITH RESPECT TO BREAKING TESTS.

APPARATUS High-voltage fuses.

DESIGNATION SFQDJ.
 Rated Voltage 36 kV Rated Normal Current 31.5 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 30th and 31st October 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 IEC Publication 282-1, 1974 Section Four Type Tests, clause 13.

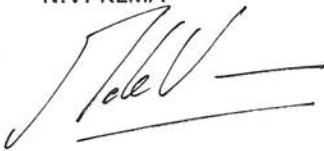
THE RESULTS ARE SHOWN IN THE RECORD OF PROVING TESTS AND THE OSCILLOGRAMS ATTACHED HERETO. THE VALUES OBTAINED AND THE GENERAL PERFORMANCE ARE CONSIDERED TO COMPLY WITH THE ABOVE STANDARD AND TO JUSTIFY THE RATINGS ASSIGNED BY THE MANUFACTURER AS LISTED ON PAGE 1.

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.: 2708-79-01 to 2708-79-04 incl.
Electromagnetic oscillogram Nos.: 791031-2052-2053.
Cathode-ray oscillogram Nos.: -
Drawing Nos.: 2A 4423/B.
 Nos.: -
Photograph Nos.: 790156.

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N.V. KEMA

M.N.D. de Vries.
Arnhem, 11th February 1980

R 101E 1978

This certificate refers to SFQDJ 36kV 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

36kV, Current Limiting Back-Up Fuse-Links, 3.15 to 63 Amps

MV DIN

KEMA Certificate

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

Certificate no. 2829-79

CERTIFICATE OF COMPLIANCE WITH IEC PUBLICATION 282-1, 1974
WITH RESPECT TO BREAKING TESTS.

APPARATUS High-voltage fuses.

DESIGNATION SDQDJ.
Rated Voltage 36 kV Rated Normal Current 25 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 30th and 31st October 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 IEC Publication 282-1, 1974 Section Four Type Tests, clause 13.

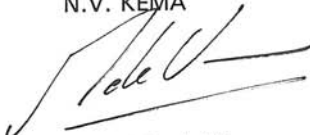
THE RESULTS ARE SHOWN IN THE RECORD OF PROVING TESTS AND THE OSCILLOGRAMS ATTACHED HERETO. THE VALUES OBTAINED AND THE GENERAL PERFORMANCE ARE CONSIDERED TO COMPLY WITH THE ABOVE STANDARD AND TO JUSTIFY THE RATINGS ASSIGNED BY THE MANUFACTURER AS LISTED ON PAGE 1.

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.: 2829-79-01 to 2829-79-04 incl.
Electromagnetic oscillogram	Nos.: 791031-2050-2051.
Cathode-ray oscillogram	Nos.: -
Drawing	Nos.: 2A 4421/A.
Diagram	Nos.: -
Photograph	Nos.: 790156.

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N.V. KEMA

M.N.D. de Vries.

Arnhem, 11th February 1980

R 101E 1978

This certificate refers to SDQDJ 36kV 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

36kV, Current Limiting Back-Up Fuse-Links, 3.15 to 63 Amps

MV DIN

KEMA Report

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

Certificate no. 272 -80

CERTIFICATE OF COMPLIANCE WITH IEC PUBLICATION 282-1: 1974
WITH RESPECT TO BREAKING TESTS.

APPARATUS High-voltage fuses.

DESIGNATION SFQDJ.
Rated Voltage 36 kV Rated Normal Current 50 A Rated Frequency 50 Hz

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

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

DATE(S) OF TESTS 6th and 7th May and 16th June 1980.

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 Publication 282-1: 1974 clause 13 and the STL Guide as appropriate.

Note: According to STL Objectives and Operating Principles KEMA issues a Certificate of compliance with the above mentioned IEC Publication following exclusively the STL Guide wherever applicable.

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 7 incl.
Oscilloscope record Nos.: 272-80-01 to 272-80-07 incl.
Electromagnetic oscillogram Nos.: 800507-2045-2046; 800616-2045-2046.

Cathode-ray oscillogram Nos.: -

Drawing Nos.: 2A 4427/B; 2A 4428/B; PF 2046.

Diagram Nos.: -

Photograph Nos.: 800441.

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N.V. KEMA



M.N.D. de Vries.

Arnhem, October 17, 1980

R 101E 1978

This certificate refers to SFQDJ 36kV 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

36kV, Current Limiting Back-Up Fuse-Links, 3.15 to 63 Amps

MV DIN

KEMA Report

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

REPORT OF PERFORMANCE No. 318-83

CLIENT	Brush Fusegear Ltd., Burton-on-the-Wolds, Leicestershire, United Kingdom.	
MANUFACTURER	Brush Fusegear Ltd., Burton-on-the-Wolds, Leicestershire, United Kingdom.	
APPARATUS	High Voltage Fuses.	
DESIGNATION	SFQAJ.	SERIAL NO.

RATINGS ASSIGNED BY THE MANUFACTURER

Voltage	: 36 kV
Normal Current	: 50 A
Breaking Current	: 35.5 kA
Frequency	: 50 Hz

The tests have been made in accordance with client's instructions based on IEC Publication 282-1 (test-duty 1).
Date of tests 21st June 1983.

The performance of the apparatus tested and the observations made during the tests have been recorded in the tables with test results and oscillograms.

THE DOCUMENTS FORMING PART OF THIS REPORT ARE

Table with test results	nos.: 3.
Oscilloscope record	nos.: -
Electromagnetic oscillogram	nos.: -
TRS oscillogram	nos.: 830621-2024-2026-2027-2028.
Drawing	nos.: C 2 A 4485; PF 1046.
Diagram	nos.: -
Photograph	nos.: -

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SUMMARY OF TESTS ON PAGE 1

N.V. KEMA

M.N.D. de Vries

M.N.D. de Vries.
Arnhem, 12th August 1983.

R 112F 107A

This certificate refers to SFQAJ 36kV 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.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

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