Effective June 2014 Supersedes November 2008

Bussmann 36 kV Medium voltage fuse links



Product description

Bussmann's range of 36 kV DIN Medium voltage fuse links are suitable for transformer protection. These fuse links can be used even where there is no secondary LV protection, provided they are used with fuse switches fitted with instantaneous striker tripping.

Standard features

- Cool running, low watts loss and power dissipation thanks to the M-effect ensuring high levels of substation utilisation.
- Silver elements ensuring high conductivity and low power (revenue) loss.
- 100% X-ray, all our medium voltage fuse links are X-rayed ensuring the highest possible standards are maintained.

Bussmann

Bussmann 36 kV Medium voltage fuse links

- Catalogue symbol: • 36TDQSJ(amp)
- 36TFQSJ(amp)
- 36TXQEJ(amp)

Technical data:

- Volts: 36 kV
- Amps: 3.15 to 63 A
- Breaking capacity: 20 to 35.5 kA
- · Class of operation: Back-up as IEC 60282-1 (2005)
- Suitable for outdoor and indoor use
- RoHS compliant

Standards/Approvals:

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

Packaging:

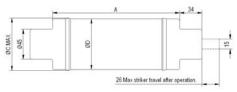
• MOQ 3

Dimensions - mm

EJ Outline



SJ Outline

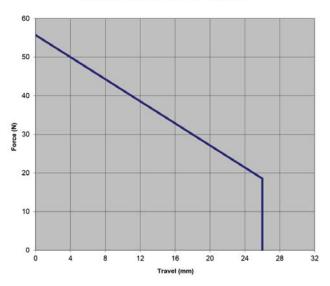


54 51	29
• • • •	2.3
80 76	6
88 88	6.5
8	0 76 8 88

Striker diagram

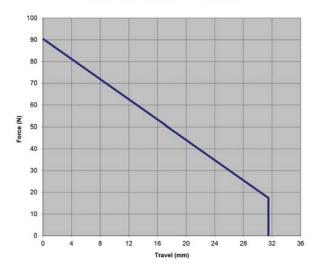
S = Spring striker 50N to DIN 43625 and IEC 60282-1 designation 'medium'

Force x Travel diagram for 50N DIN striker



E = Spring striker 80N to IEC 60282-1 designation 'medium'

Force x Travel diagram for 80N DIN striker



Bussmann 36 kV Medium voltage fuse links

Table 1. Part numbers

				Cold resistant loss in free a		Joule integral	(l²t)			
Part numbers	Current I _n (A)	Breaking capacity I ₁ (kA)	Minimum breaking current I ₃ (A)	mΩ	w	Minimum Pre-arcing	Maximum operating	Length mm	Diameter mm	Weight kg
36TDQSJ3.15	3.15	20	23	1455	18	2 x 10 ¹	2.4 x 10 ²	537	51	2.9
36TDQSJ6.3	6.3	35.5	23	684	34	1 x 10 ²	1.2 x 10 ³	537	51	2.9
36TDQSJ10	10	35.5	35	402	44	3.1 x 10 ²	3.6 x 10 ³	537	51	2.9
36TDQSJ16	16	35.5	70	165	52	4.6 x 10 ²	5.1 x 10 ³	537	51	2.9
36TDQSJ20	20	35.5	98	117	62	8.9 x 10 ²	8.2 x 10 ⁴	537	51	2.9
36TDQSJ25	25	35.5	112	98	85	1.2 x 10 ³	1.5 x 104	537	51	2.9
36TFQSJ31.5	31.5	35.5	116	73.4	96	2.1 x 10 ³	2.3 x 104	537	51	6
36TFQSJ40	40	35.5	178	52.4	116	4.1 x 10 ³	3.9 x 10 ⁴	537	76	6
36TFQSJ50	50	35.5	255	36.8	133	8.3 x 10 ³	8.1 x 10 ⁴	537	76	6
36TXQEJ63*	63	20	360	35	271	1.1 x 10 ⁴	6.2 x 10 ⁴	537	88	6.5

* Not compliant with VDE 0670 part 402

Table 2. Cross reference

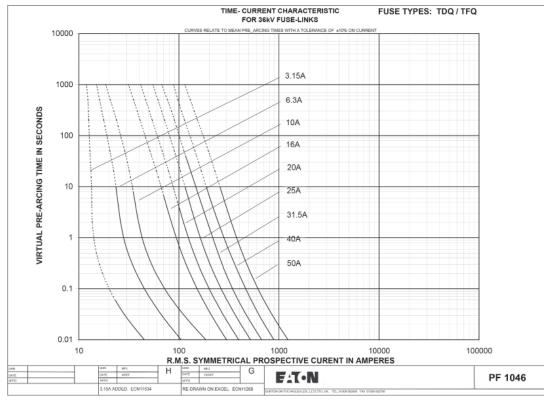
Bussmann	EFEN	SIBA	MESA	ETI 80N Striker	ETI 50N Striker	Merlin Gerin	INAEL	ABB
36TDQSJ3.15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
36TDQSJ6.3	67150.0060	3000813	CF-36/6.3	4266005	4265005	51006 549 M0	IB-D1	1YMB531006M0001
36TDQSJ10	67150.0100	3000813	CF-36/10	4266006	4265006	51006 550 M0	IB-D1	1YMB531006M0002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

Table 3. Watts loss comparison

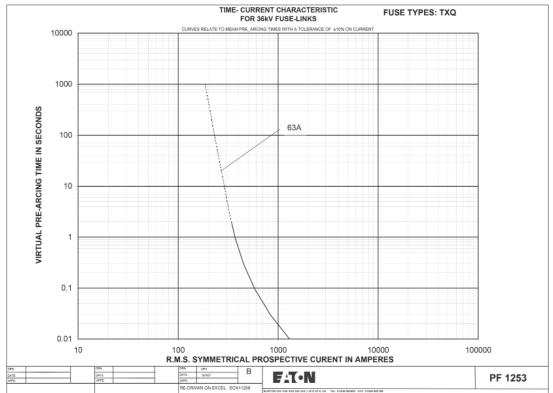
Bussmann	Bussmann	EFEN	SIBA	MESA	ETI	Merlin Gerin	INAEL	ABB
36TDQSJ3.15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
36TDQSJ6.3	34	39	42	39	41	39	32	137
36TDQSJ10	44	65	70	50	27	50	55	93
36TDQSJ16	52	67	79	98	46	98	82	109
36TDQSJ20	62	84	66	120	66	120	85	N/A
36TDQSJ25	85	100	87	133	85	133	87	144
36TFQSJ31.5	96	119	102	171	113	171	125	N/A
36TFQSJ40	116	176	144	207	134	207	164	176
36TFQSJ50	133	183	186	198	112	198	195	N/A
36TXQEJ63	271	271	224	240	175	240	235	N/A

Technical Data **720107** Effective June 2014

Time current curve - Fuse types TDQ/TFQ

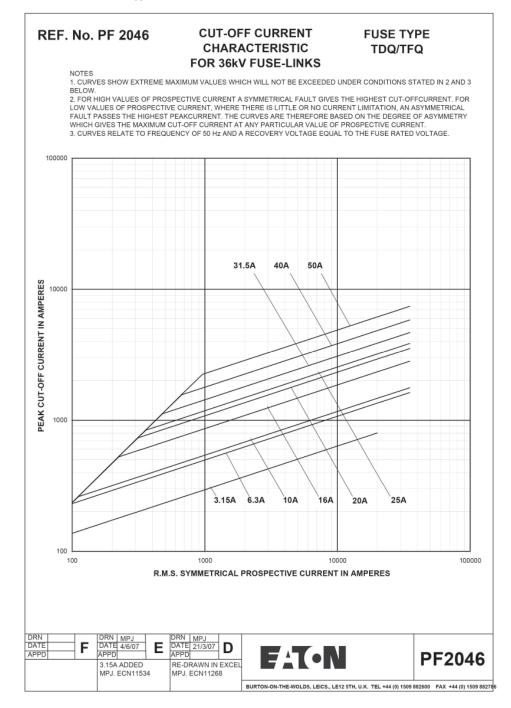


Time current curve - Fuse type TXQ

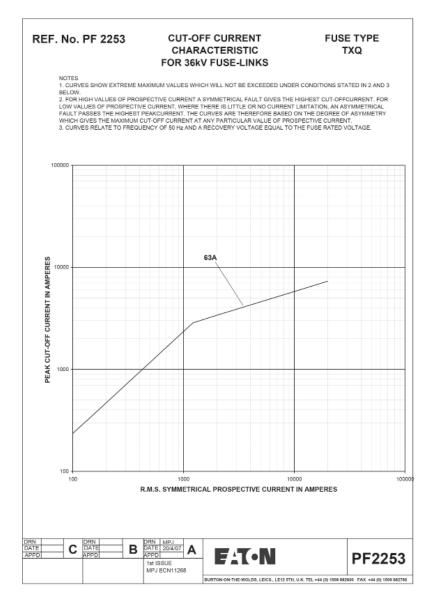


4

Cut-off curve - Fuse types TDQ/TFQ



Cut-off curve - Fuse type TXQ



KEMA certificate

Utrechtseweg 3	10	Arnhem	The Netherlar
			Certificate no. 2708-79
CERTIFICATE		ANCE WITH IEC PUBLIC T TO BREAKING TESTS	
APPARATUS High-v	oltage fuses.		
DESIGNATION SEQUE			
	lated Voltage		mal Current 31.5 A Rated Frequency 5
MANUFACTURER Brush	Power Equipment	Limited, Bridgend, Mid-	-Glamorgan, United Kingdom.
TESTED FOR Brush	Pawer Equipment	Limited, Bridgend, Mid-	-Glamorgan, United Kingdom.
DATEISI OF TESTS 30th o	nd 31st October	1979.	
The apparatus, constructed in has been subjected to the ser clause 13.	n accordance with ies of proving test	the description, drawing is in accordance with IEC	gs and photographs incorporated in this Certifice Publication 282-1, 1974 Section Four Type 1
			S AND THE OSCILLOGRAMS ATTACHED HE RE CONSIDERED TO COMPLY WITH THE A MANUFACTURER AS LISTED ON PAGE 1.
The responsibility for confor	mity of any appar	ratus having the same de	signation with that tested does not involve KE
THE DOCUMENTS FORMIN	G PART OF THIS	CERTIFICATE ARE:	
Record of Proving Tests	Nos.: 4 to 6 i	ncl.	
Our ope record	Nos.: 2708-79-	-01 to 2708-79-04 incl	l.
ectroma etic oscillogram	Nos.: 791031-2	2052-2053.	
Cathode- 17 ascillogram	Nos.1 -		
	Nos.: 2A 4423	/8. +	
	Nos.: -		
Photograph	Nos.: - Nos.: 790156.		
ight: Only integral re which are stated	the tests perform	Cartificate, or reproduc ned and the assigned ra sion from N.V. KEMA.	ctions of this page accompanied by the page(s) ted characteristics of the apparatus tested, a
			N.V. KEMA
-	1		The -
ASS ST	-		1-
2 3 1 1 1	-		M.N.D. de Vries.
- Ann			Arnhem, 11th February 1980

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.

KEMA certificate

Certificate no. 2829-99 CERTIFICATE OF COMPLIANCE WITH IEC PUBLICATION 282-1, 1974 MITH RESPECT TO BRAKING TEST. APPARATUS High-voltage face. Distribution SODD. Mathy Actuation	trechtseweg 31	0	Arnhem	The Ne	therlands
CERTIFICATE OF COMPLIANCE WITH IEC PUBLICATION 282-1, 1974 MANUMACTURE High-woltage fues. DESIGNATION SOQDJ. MANUFACTURER Brade Voltage 56 kV Bated Normal Current 25 A Bated Frequency 50 MANUFACTURER Brade Power Equipment Limited, Bridgend, Mid-Glomorgan, United Kingdom. TSTED FOR Brade Power Equipment Limited, Bridgend, Mid-Glomorgan, United Kingdom. TAILSI OF TESTS 30th and 31st October 1979. The apportune, constructed in accordance with the description, drawings and photographs Incorporated in this Certificate to the series of proving tests in accordance with IEC Publication 282-1, 1974 Section Four Type Tr clause 13. THE RESULTS ARE SHOWN IN THE RECORD OF PROVING TESTS AND THE OSCILLOGRAMS ATTACHED HERE THE VALUES ORTAINED AND THE GENERAL PERFORMANCE ARE CONSIDERED TO COMPANY WITH THE THE ATINGS ASSIGNED BY THE MANUFACTURER AS LISTED ON PAGE 1. THE RESULTS ARE SHOWN IN THE RECORD OF PROVING TESTS AND THE OSCILLOGRAMS ATTACHED HERE THE AUGUS ORTAINED AND THE GENERAL PERFORMANCE ARE CONSIDERED TO COMPANY WITH THE THE ATINGS 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 KEI THE DOCUMENTS FORMING PART OF THIS CERTIFICATE ARE: Record of Proving Tests Nos.: 2 Toware roy oscillogram Nos.: 791031-2030-2031. Darme roy oscillogram Nos.: 7				Certificate no. 28	329-79
CERTIFICATE WITH REPECT TO BREAKING TEST. APPARATUS High-woltage fuest. DESIGNATION SDQDJ. Rated Voltage 36 KV Rated Normal Current 25 A Rated Frequency 50 MANUFACTURER Brach Power Epulpment Limited, Bridgend, Mid-Glamorgan, United Kingdom. TESTED FOR Brach Power Epulpment Limited, Bridgend, Mid-Glamorgan, United Kingdom. DATEISI OF TESTS 30h and 31st October 1979. The opportunt, constructed in occordance with the description, drawings and photographs Incorporated in this Certification been subjected to the series of proving tests in accordance with IEC Publication 202-1, 1974 Section Four Type Tr claue 13. THE RESULTS ARE SHOWN IN THE RECORD OF PROVING TESTS AND THE OSCILLOGRAMS ATTACHED HER THE VALUES OBTAINED AND THE GENERAL PERFORMANCE ARE CONSIDERED TO COMPLY WITH THE AT STANDARD AND TO JUSTIFY THE RATINGS ASSIGNED BY THE MANUFACTURER AS LISTED ON PAGE 1. THE responsibility for conformity of any opporatus having the same designation with that tested does not involve KEP THE DOCUMENTS FORMING PART OF THIS CERTIFICATE ARE: Record of Proving Tests Nox.: 4 to 6 Incl. Objection collogram Nox.: 701031-2030-2031. Carlier-ray oscillogram Nox.: 701031-2030-2031. Carlier-ray cocillogram Nox.: 701031-2030-2031. Carlier-ray cocillogram Nox.:					
DESIGNATION SDODJ. Rated Voltage 36 kV Rated Normal Current 25 A Rated Frequency 30 MANUFACTURER Brush Power Equipment Limited, Bridgend, Mid-Glamorgan, United Kingdom. DESIGNATION Brush Power Equipment Limited, Bridgend, Mid-Glamorgan, United Kingdom. DATEISI OF TESTS 30th and 31st October 1979. The apparatus, constructed in accordance with the description, drawings and photographs Incorporated in his Certification been subjected to the series of proving tests in accordance with IEC Publication 282-1, 1974 Section Four Type Triclose 13. THE RESULTS ARE SHOWN IN THE RECORD OF PROVING TESTS AND THE OSCILLOGRAMS ATTACHED HER THE VALUES OBTAINED AND THE GENERAL PERFORMANCE ARE CONSIDERED TO COMPLY WITH THE AND 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 KEP THE DOLUMENTS FORMING PART OF THIS CERTIFICATE ARE: Record of Proving Tests Nos: 220-79-00 to 2829-79-04 incl. Extra graphic ascillagram Nos: 220-2001. Call me-ray ascillagram Nos: 24 4421/A. Brann Nos: 3 Tograph Nos: 70103- Columbit: Only integral reproduction of this Certifficate, or reproductions of this page accom	ERTIFICATE	OF COMPLIANCE V WITH RESPECT TO E	WITH IEC PUBLICATION REAKING TESTS.	1 282-1, 1974	
Reted Voltage 36 kV Rated Narmal Current 25 A Rated Frequency 50 MANUFACTURER Bruk Power Equipment Limited, Bridgend, Mid-Glamorgan, United Kingdom. TESTED FOR Bruk Power Equipment Limited, Bridgend, Mid-Glamorgan, United Kingdom. DATEISI OF TESTS 30th and 31st Octaber 1979. The apparatus, constructed in accordance with the description, drawings and photographs incorporated in this Certifications been subjected to the series of proving tests in accordance with IEC Publication 282-1, 1974 Section Four Type Tr claue 13. The RESULTS ARE SHOWN IN THE RECORD OF PROVING TESTS AND THE OSCILLOORAMS ATTACHED MER THE VALUES OBTAINED AND THE GENERAL PERFORMANCE ARE CONSIDERED TO COMPLY WITH THE AN STANDARD AND TO JUSTIPY 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 KEP THE DOCUMENTS FORMING PART OF THIS CERTIFICATE ARE: Record of Proving Tests Nos.: 4 to 6 incl. Orcilloscope record Nos.: 2829-79-04 incl. Effect lognetic oscillogram Nos.: 791031-2050-2051. Cantue-ray oscillogram Nos.: 791031-2050-2051. Cantue-ray oscillogram Nos.: 790156. Content: Only integral reproduction of this Certificate, or reproductions of this page accompanied by the page(s) which are stated the tests performed and the correctentistics of the opparatus tested, or permitted without written permission from N.V. KEMA. N.V. KEMA M.N.D. do Vries.	PARATUS High-ve	oltage fuses.			
Rated Voltage 36 kV Rated Namel Current 25 A Rated Frequency 30 MANUFACTURER Brush Power Equipment Limited, Bridgend, Mid-Glamorgon, United Kingdom. TESTED FOR Brush Power Equipment Limited, Bridgend, Mid-Glamorgon, United Kingdom. DATEISI OF TESTS 30th and 31st October 1979. The apportus, constructed in accordance with the description, drawings and photographs incorporated in this Certification been subjected to the series of proving tests in accordance with IEC Publication 262-1, 1974 Section Four Type Tr claxe 13. THE RESULTS ARE SHOWN IN THE RECORD OF PROVING TESTS AND THE OSCILLOGRAMS ATTACHED HER THE VALUES OBTAINED AND THE GENERAL PERFORMANCE ARE CONSIDERED TO COMPLY WITH THE AS STANDARD AND TO JUSTIPY 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 KEP THE DOCUMENTS FORMING PART OF THIS CERTIFICATE ARE: Record of Proving Tests Nos.: 2629-79-01 incl. 2629-79-04 incl. EFF Ingreeiric oscillogram Nos.: 2629-79-01 incl. 2629-79-04 incl. EFF Ingreeiric oscillogram Nos.: 2629-79-01 incl. 2629-79-04 incl. EFF Ingreeiric oscillogram Nos.: 2629-79-04 incl. EFF Ingreeiric oscillogram Nos.: 791031-2050-2051. Cature-roy oscillogram Nos.: 790156. </td <td>SIGNATION SDQDJ</td> <td></td> <td></td> <td></td> <td></td>	SIGNATION SDQDJ				
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The VALUES OBTAINED AND THE GENERAL PERFORMANCE ARE CONSIDENCE OF VALUES OBTAINED AND TO JUSTIFY THE RATINGS ASSIGNED BY THE MANUFACTURER AS LISTED ON PAGE 1. The responsibility for conformity of any opparatus having the same designation with that tested does not involve KEP 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. Evel bagnetic oscillogram Nos.: 71031-2050-2051. Latin se-ray oscillogram Nos.: - Nos.: 24 4421/A. Tagraph Nos.: 2010 Nos.: 790156. Contribution of this Certificate, or reproductions of this page accompanied by the page(s) which are stated the tests performed and the assigned rated characteristics of the apparatus tested, or permitted without written permission from N.V. KEMA. N.V. KEMA M.N.D. de Vries.					
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Control oscillagram Nos.: - Nowing Nos.: 2A 4421/A. Iagram Nos.: - Tograph Nos.: 790156. Control to Only integral reproduction of this Certificate, or reproductions of this page accompanied by the page(s) which are stated the tests performed and the assigned rated characteristics of the apparatus tested, and permitted without written permission from N.V. KEMA. N.V. KEMA N.V. KEMA M.N.D. de Vries.	Scilloscope record	Nos . 791031-2050	-2051.		
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Con whit Only integral reproduction of this Certificate, or reproductions of this page accompanied by the page(s) which are stated the tests performed and the asigned rated characteristics of the apparatus tested, an permitted without written permission from N.V. KEMA.	agram	Nos.: -			
which are stated the tests performed and the assigned rated chaldcarding of the opportunity of the opportuni	tograph	Nos.: 790156.			
N.V. KEMA	which are stated	the tests performed	and the assigned rated	ns of this page accompanied by characteristics of the apparate	the page(s) on is tested, are
Ann.D. de Vries.				NV KEM	Δ .
				N.V. KLU	./
	Mr. and			///	1/
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Action 11th Entropy 1980				M.N.D.	de Vries.
Amnem, The fedduly root	A			Arnhem, 11th Februa	ry 1980

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.

KEMA certificate

Utrechtseweg	310	Arnhem	The Netherlands
			Certificate no. 272 -80
	OF COMPLU	ANCE WITH IEC PUBLICATIO	N 282-1: 1974
CERTIFICATE	E WITH RESPEC	T TO BREAKING TESTS.	
APPARATUS Hi	gh-voltage fuses.		
	QDJ.		
DESIGNATION SF	Rated Voltage	36 kV Rated Normal	Current 50 A Rated Frequency 50 Hz
MANUFACTURER Bro	ush Power Equipme	ent Ltd., Bridgend, Mid-Gla	morgan, United Kingdom.
	ush Power Equipme	ent Ltd., Bridgend, Mid-Gla	morgan, United Kingdom.
		d 16th June 1980.	
DATEIO			
has been subjected to the Guide as appropriate.	series of proving for	ests in accordance with TEC 1	nd photographs incorporated in this Certificate, ublication 282–1: 1974 clause 13 and the STL
Note: According to S' above mentione	TL Objectives and d IEC Publication	Operating Principles KEMA following exclusively the ST	issues a Certificate of compliance with the L Guide wherever applicable.
THE RESULTS ARE SH THE VALUES OBTAINE STANDARD AND TO JU	OWN IN THE REC D AND THE GEN USTIFY THE RATIF	CORD OF PROVING TESTS A IERAL PERFORMANCE ARE NGS ASSIGNED BY THE MAI	ND THE OSCILLOGRAMS ATTACHED HERETO CONSIDERED TO COMPLY WITH THE ABOV NUFACTURER AS LISTED ON PAGE 1.
The responsibility for cor	nformity of any ap	paratus having the same desig	nation with that tested does not involve KEMA.
THE DOCUMENTS FOR	MING PART OF TH	IS CERTIFICATE ARE:	
Record of Proving Tests	Nos.: 4 to 7	incl.	
Oscilloscope record		0-01 to 272-80-07 incl.	
Electromagnetic oscillog	ram Nos.: 80050	7-2045-2046; 800616-2045-2	246.
n	Nos.: -		
C ode-ray oscillogram	Nos.: -		
Drawing	Nos.: 2A 44	27/B; 2A '4428/B; PF 2046.	
Diagram	Nos.: -		
Photograph	Nos.: 80044	1.	
which are ste	sted the tests nert	his Certificate, or reproductio ormed and the assigned rates nission from N.V. KEMA.	ans of this page accompanied by the page(s) on a characteristics of the apparatus tested, are
			N.V. KEMA
			1.1
	-		////_
ANNE -			1 lolev
AXE: A			V
			M.N.D. de Vries.
Mar .	100		Arnhem, October 17, 1980
14 10			Annen, October 17, 1750
- Aller			

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.

KEMA report

Utrechtseweg	310	Arnhem	The Netherlands
REPORT OF	PERFORM	ANCE No. 318-83	8 - 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
CLIENT	Brush Fusege	ar Ltd., Burton-on-the-Wolds,	Leicestershire, United Kingdom,
MANUFACTURER	Brush Fusege High Voltage		Leicestershire, United Kingdom.
DESIGNATION	SFQAJ.	SERIAL NO.	- 125 y 1
RATINGS ASSIGNED B	IY THE MANUFAC	TURER	
Voltage	1 36 kV		
Normal Current	: 50 A		
Breaking Current	: 35.5 kA		
Frequency	: 50 Hz		
The tests have been m			sed on IEC Publication 282-1 (test-duty 1).
Date of tests	Zist June 198	53.	
The performance of the tables with test re	e opparatus tested isults and ascillage	and the observations mode during ame.	g the tests have been recorded in
THE DOCUMENTS FOR	RMING PART OF T	HIS REPORT ARE	
Table with test results			
Oscilloscope record	nos.t -		
Electromognetic oscilla	ogram nos.t ~		
TRS escillogra	m net.: \$300	521-2024-2026-2027-2028.	
Drawing		A 4485; PF 1046.	
Disgram	nos.: -		
the letter,	n or reproduction o , is not allowed w	of the contents of this report in a without our written consent.	ny other form than by a complete copy to
N.			
		SUMMARY OF TESTS ON PAG	· · · · · · · · · · · · · · · · · · ·
			N.V. KEMA
AR ALL			5/11/
24			1 /0//
-			1/1000
			M.N.D. de Vries.

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.

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