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.



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:

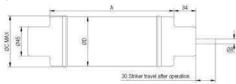
- DIN 43625
- VDE 0670 part 4 and 402
- IEC 60282-1 (2005)

Packaging:

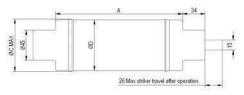
MOQ 3

Dimensions - mm

EJ Outline



SJ Outline

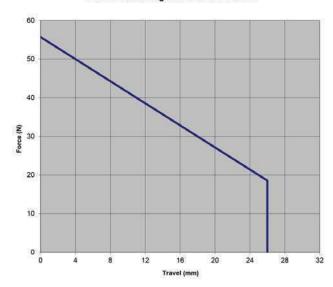


Fuse reference	Α	С	D	Weight (Kg)
TDQSJ	537	54	51	2.9
TFQSJ	537	80	76	6
TXQEJ	537	88	88	6.5

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

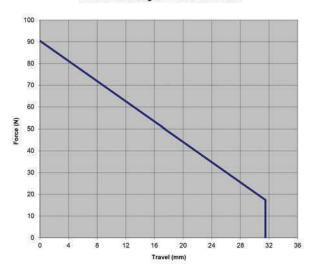


Table 1. Part numbers

				Cold resistance & Watts loss in free air Joule integral (I²t)		l (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	3.6×10^3	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 10 ⁴	537	51	2.9
36TFQSJ31.5	31.5	35.5	116	73.4	96	2.1 x 10 ³	2.3 x 10 ⁴	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

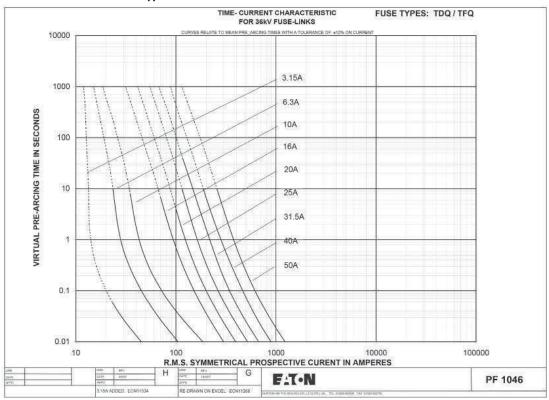
Table 2. Cross reference

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

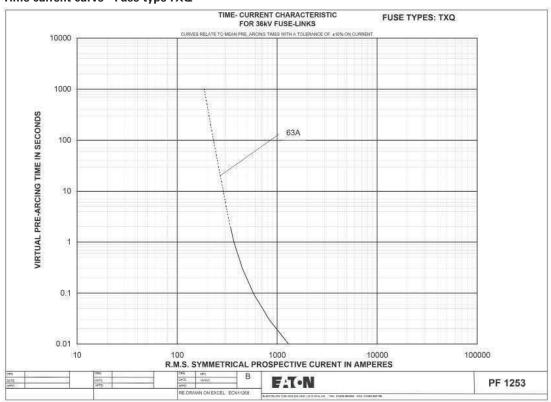
Table 3. Watts loss comparison

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

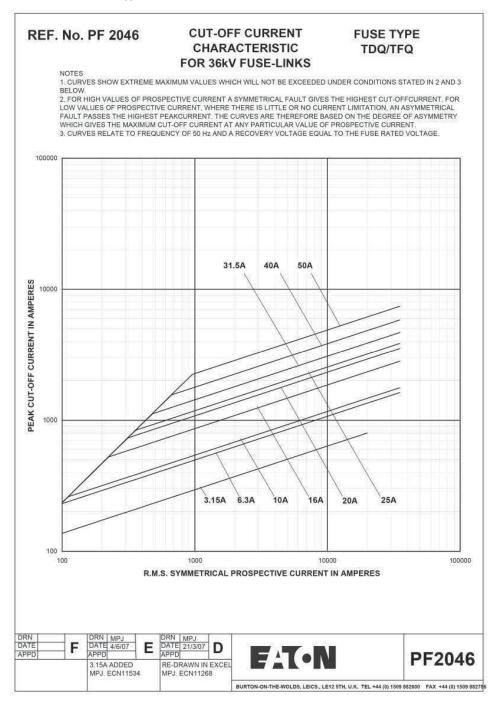
Time current curve - Fuse types TDQ/TFQ



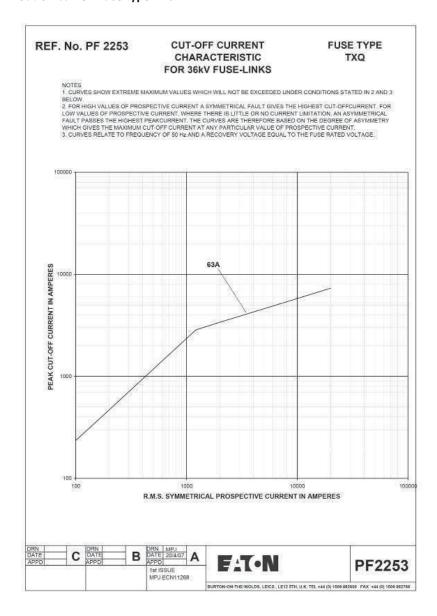
Time current curve - Fuse type TXQ



Cut-off curve - Fuse types TDQ/TFQ



Cut-off curve - Fuse type TXQ

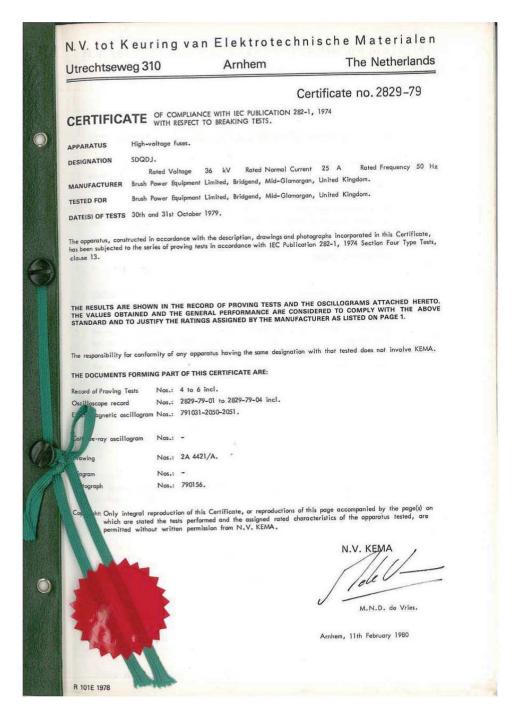


KEMA certificate



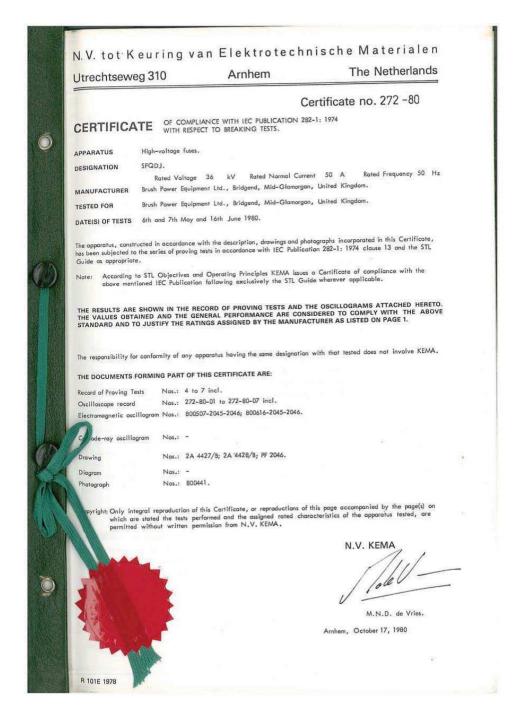
This certificate refers to SFQDJ 36kV fuse links, which are electrically identical to the new T range, other than the fuses are sealed for outdoor use, have a brown ceramic body and use a 50N striker.

KEMA certificate



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



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



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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