

MV DIN



36TDQSJ(amp) **Catalogue Symbol:**

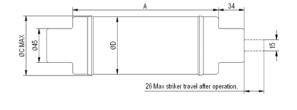
36TFQSJ(amp) 3TXQEJ(amp)

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

Dimensional Data:

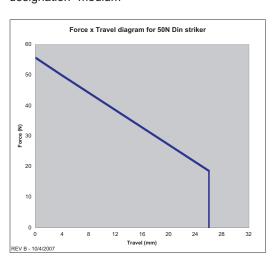
Fuse Reference	Α	С	D	Weight (Kg)	
TDQSJ	537	54	51	2.9	
TFQSJ	537	80	76	6.0	
TXQEJ	537	88	88	6.5	

SJ Outline



Striker Diagram:

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



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

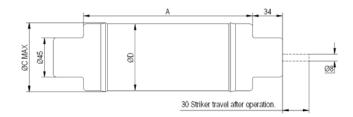
Technical Data:

DIN fuse-links

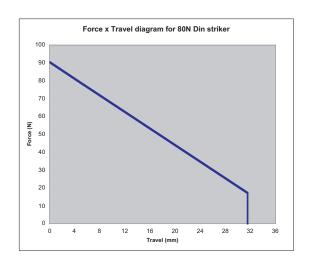
17.5kV - 36kV Rated voltage: Amps: 3.15A to 63A Rated breaking capacity: 20kA to 35.5kA Rated frequency: 50Hz - 60Hz Suitable for outdoor and indoor use

RoHS compliant

EJ Outline



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







MV DIN

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	Breaking Capacity	Minimum Breaking Capacity	Cold Resistance & Watts Loss in Free Air		1		Length	Diameter	Weight
		I ₁ (kA)	I ₃ (A)	mΩ	W	Minimum Pre- Arcing	Maximum Operating	mm	mm	kg
36TDQSJ3.15	3.15	20	23	1455	18	2.0 X 10 ¹	2.4 X 10 ²	537	51	2.9
36TDQSJ6.3	6.3	35.5	23	684	34	1.0 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 X10 ⁴	537	51	2.9
36TDQSJ25	25	35.5	112	98.0	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	6.0
36TFQSJ40	40	35.5	178	52.4	116	4.1 X 10 ³	3.9 X 10 ⁴	537	76	6.0
36TFQSJ50	50	35.5	255	36.8	133	8.3 X 10 ³	8.1 X 10 ⁴	537	76	6.0
36TXQEJ63*	63	20	360	35.0	271	1.1 X10 ⁴	6.2 X 10 ⁴	537	88	6.5

^{*} Not compliant with VDE 0670 part 402

Cross-Reference

Bussmann	EFEN@	SIBA	MESA	31	41	Merlin Gerin	@elim/an	INAEL	ABB
				(80N Striker)	(50N Striker)				
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

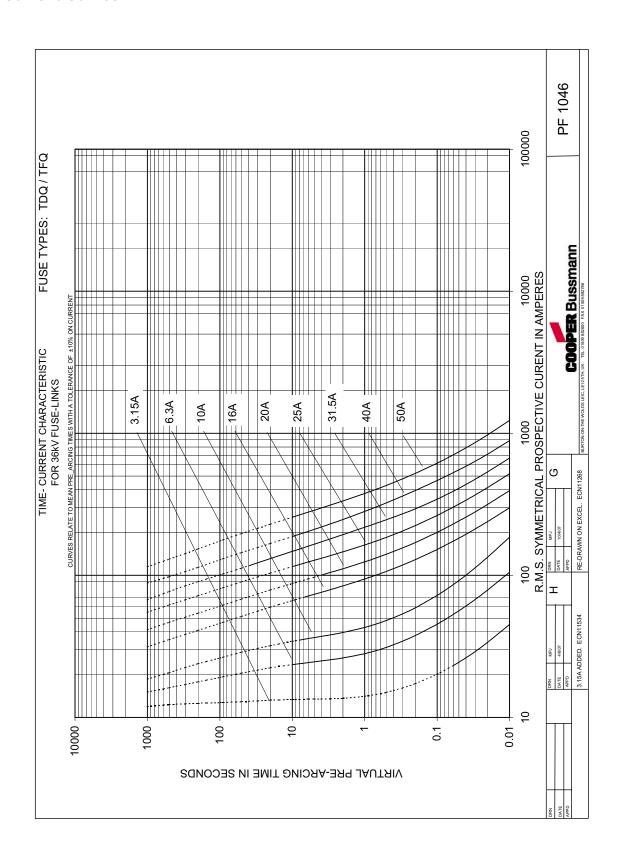
Bussmann Part Number	Bussmann Watts Loss	EFEN @ Watts Loss	SIBA Watts Loss	MESA Watts loss	Watts Loss	Mertin Gerin Watts Loss	© elim/on Watts Loss	Watts Loss	ABB Watts Loss
36TDQSJ3.15	-			-		-	-	-	-
36TDQSJ6.3	34	39	42	39	41	39	54	32	137
36TDQSJ10	44	65	70	50	27	50	48	55	93
36TDQSJ16	52	67	79	98	46	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	-





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Time Current Curves

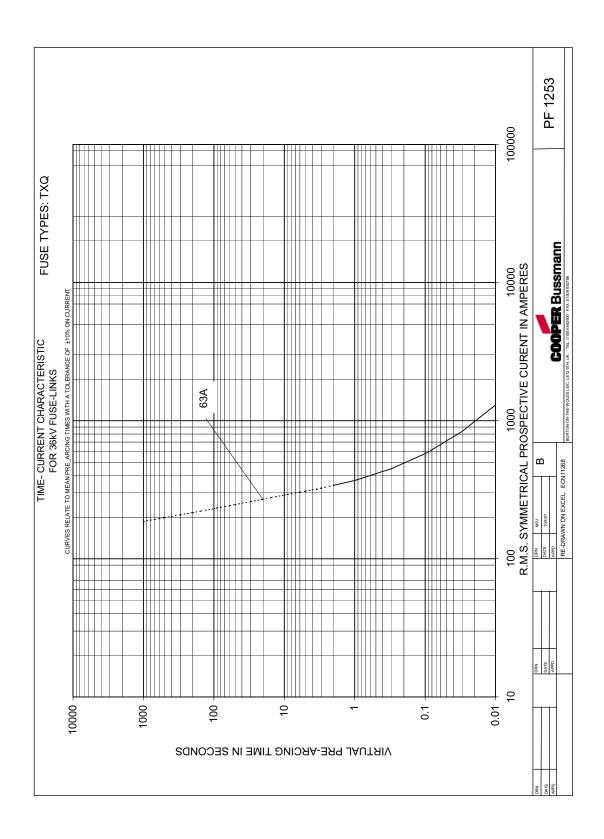






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Time Current Curves







MV DIN

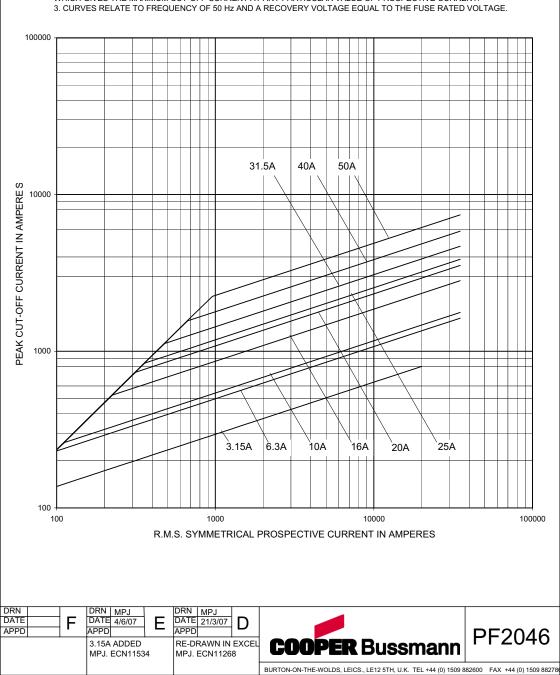
Cut-Off Curves

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-OFFCURRENT. FOR LOW VALUES OF PROSPECTIVE CURRENT, WHERE THERE IS LITTLE OR NO CURRENT LIMITATION, AN ASYMMETRICAL FAULT PASSES THE HIGHEST PEAKCURRENT. THE CURVES ARE THEREFORE BASED ON THE DEGREE OF ASYMMETRY WHICH GIVES THE MAXIMUM CUT-OFF CURRENT AT ANY PARTICULAR VALUE OF PROSPECTIVE CURRENT.







MV DIN

Cut-Off Curves 36kV

CUT-OFF CURRENT FUSE TYPE REF. No. PF 2253 CHARACTERISTIC CXT FOR 36kV FUSE-LINKS 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-OFFCURRENT. FOR LOW VALUES OF PROSPECTIVE CURRENT, WHERE THERE IS LITTLE OR NO CURRENT LIMITATION, AN ASYMMETRICAL FAULT PASSES THE HIGHEST PEAKCURRENT. 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. 100000 63A PEAK CUT-OFF CURRENT IN AMPERES 1000 100 100 1000 10000 100000 R.M.S. SYMMETRICAL PROSPECTIVE CURRENT IN AMPERES В PF2253 APPD APPD 1st ISSUE MPJ ECN11268 **COOPER** Bussmann

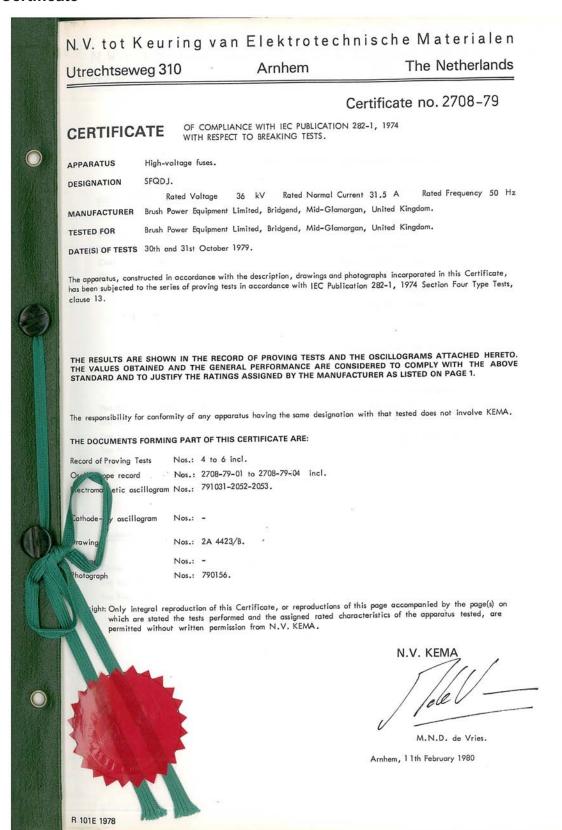


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KEMA Certificate

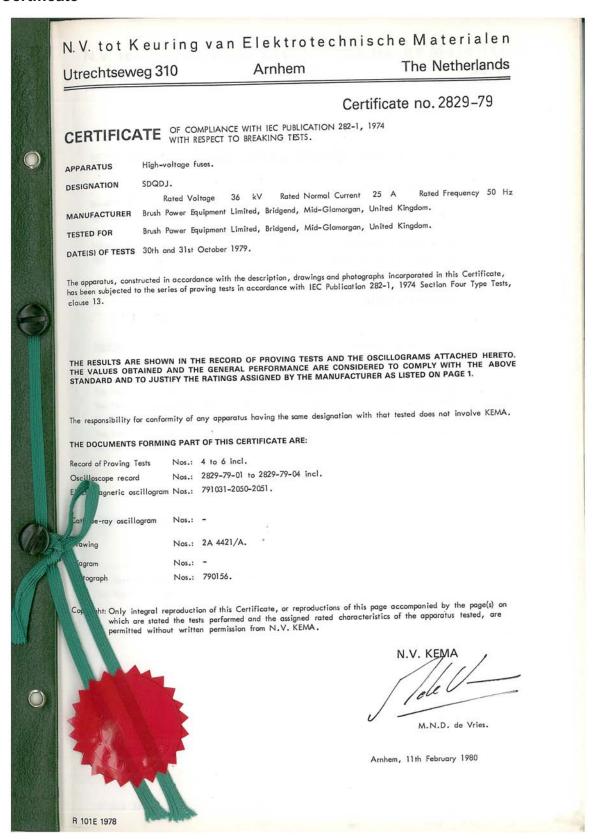


This certificate refers to <u>S</u>FQDJ 36kV fuse-links, which are electrically identical to the new T range, other than the fuses are sealed for outdoor use, have a brown ceramic body and use a 50N striker.



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KEMA Certificate



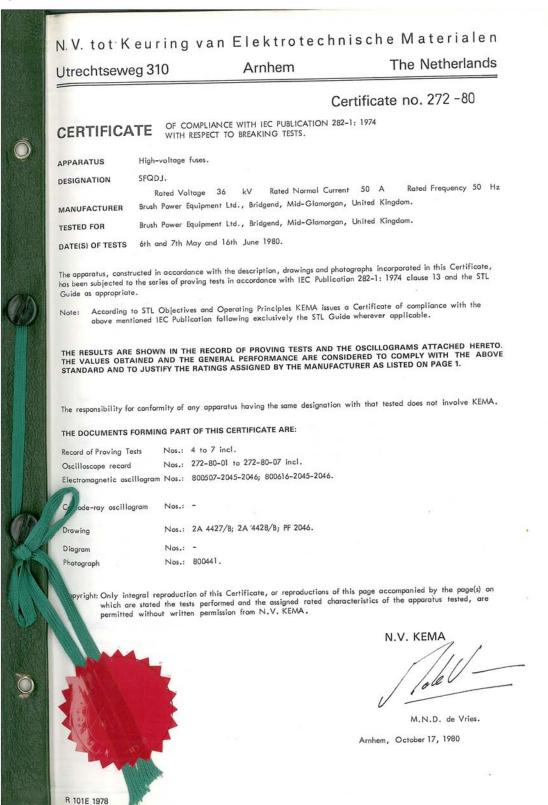
This certificate refers to <u>SDQDJ</u> 36kV fuse-links, which are electrically identical to the new T range, other than the fuses are sealed for outdoor use, have a brown ceramic body and use a 50N striker.





MV DIN

KEMA Report



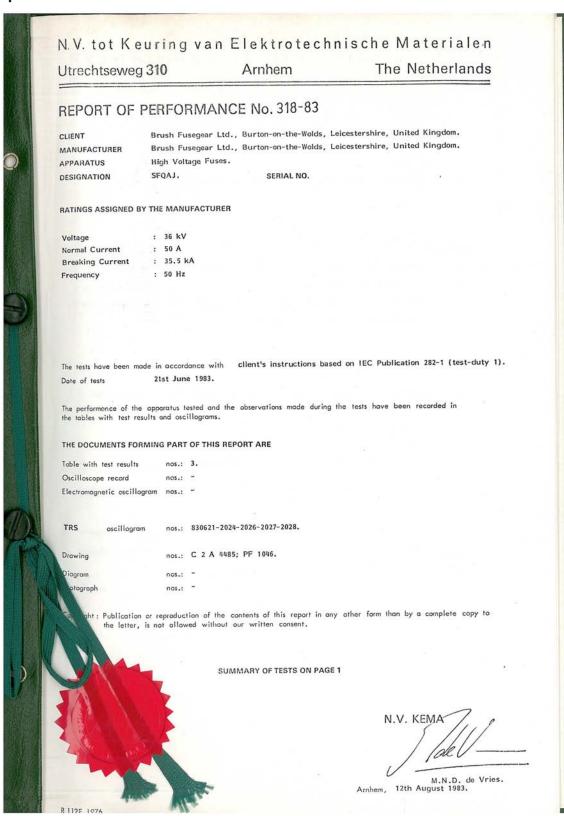
This certificate refers to <u>S</u>FQDJ 36kV fuse-links, which are electrically identical to the new T range, other than the fuses are sealed for outdoor use, have a brown ceramic body and use a 50N striker.





MV DIN

KEMA Report



This certificate refers to <u>S</u>FQAJ 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.

