



3-pole + N

U_e/U_i [V]	I_{max} [A]	Code No.	Indicator	Adapter	Weight [g]	Packaging [pcs]
400	20	002520005	-		252	3/27
		002520015	L-LED		254	
		002520025	I-NEON		254	
		002520305	-	✓	273	
		002520315	L-LED	✓	274	
		002520325	I-NEON	✓	274	
		*002520008	-		252	
		*002520018	L-LED		254	
		*002520028	I-NEON		254	
		*002520308	-	✓	273	
		*002520318	L-LED	✓	274	
		*002520328	I-NEON	✓	274	

*N pole on left "French version"

Fuse-switch disconnecter EFD 10

Rated current
max. 32 A

Rated operational voltage
690 V

Utilization category
AC 22B

For fuse-links size
10x38



1-pole

U_e/U_i [V]	I_{max} [A]	Code No.	Indicator	Adapter	Weight [g]	Packaging [pcs]
690	32	002540001	-		63	12/108
		002540011	L-LED		64	
		002540021	I-NEON		64	
		002540301	-	✓	68	
		002540311	L-LED	✓	69	
		002540321	I-NEON	✓	69	

1-pole + N

U_e/U_i [V]	I_{max} [A]	Code No.	Indicator	Adapter	Weight [g]	Packaging [pcs]
400/690	32	002540002	-		128	6/54
		002540012	L-LED		129	
		002540022	I-NEON		129	
		002540302	-	✓	138	
		002540312	L-LED	✓	139	
		002540322	I-NEON	✓	139	
		*002540007	-		128	
		*002540017	L-LED		129	
		*002540027	I-NEON		129	
		*002540307	-	✓	138	
		*002540317	L-LED	✓	139	
		*002540327	I-NEON	✓	139	

*N pole on left "French version"



2-pole

U_e/U_i [V]	I_{max} [A]	Code No.	Indicator	Adapter	Weight [g]	Packaging [pcs]
690	32	002540003	-		123	6/54
		002540013	L-LED		125	
		002540023	I-NEON		125	
		002540303	-	✓	134	
		002540313	L-LED	✓	135	
		002540323	I-NEON	✓	135	

Fuse-switch disconnectors for cylindrical fuse-links

3-pole

U_e/U_i [V]	I_{max} [A]	Code No.	Indicator	Adapter	Weight [g]	Packaging [pcs]
690	32	002540004	-		184	4/36
		002540014	L-LED		186	
		002540024	I-NEON		186	
		002540304	-	✓	200	
		002540314	L-LED	✓	201	
		002540324	I-NEON	✓	201	

3-pole + N

U_e/U_i [V]	I_{max} [A]	Code No.	Indicator	Adapter	Weight [g]	Packaging [pcs]
690	32	002540005	-		252	3/27
		002540015	L-LED		254	
		002540025	I-NEON		254	
		002540305	-	✓	273	
		002540315	L-LED	✓	274	
		002540325	I-NEON	✓	274	
		*002540008	-		252	
		*002540018	L-LED		254	
		*002540028	I-NEON		254	
		*002540308	-	✓	273	
		*002540318	L-LED	✓	274	
		*002540328	I-NEON	✓	274	

* N pole on left "French version"



Fuse-switch disconnector EFD CC

Rated current
max. 30 A

Rated operational voltage
600 V

For fuse-links
Class CC acc to UL4248-4

1-pole

U_e/U_i [V]	I_{max} [A]	Code No.	Indicator	Adapter	Weight [g]	Packaging [pcs]
600	30	002540101	-		63	12/108
		002540111	L-LED		64	
		002540401	-	✓	68	
		002540411	L-LED	✓	69	

2-pole

U_e/U_i [V]	I_{max} [A]	Code No.	Indicator	Adapter	Weight [g]	Packaging [pcs]
600	30	002540103	-		123	6/54
		002540113	L-LED		125	
		002540403	-	✓	134	
		002540413	L-LED	✓	135	

3-pole

U_e/U_i [V]	I_{max} [A]	Code No.	Indicator	Adapter	Weight [g]	Packaging [pcs]
600	30	002540104	-		184	4/36
		002540114	L-LED		186	
		002540404	-	✓	199	
		002540414	L-LED	✓	201	



Fuse-switch disconnecter EFD 14

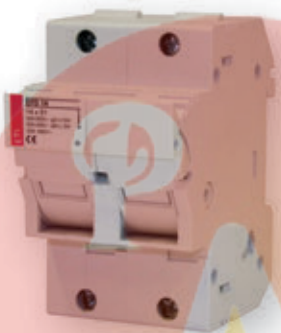
Rated current
max. 50 ARated operational voltage
690 VUtilization category
AC 22BFor fuse-links size
14x51**1-pole**

U_e/U_i [V]	I_{max} [A]	Code No.	Indicator	Weight [g]	Packaging [pcs]
690	50	002560001	-	102	12/96
		002560011	L-LED	103	

1-pole + N

U_e/U_i [V]	I_{max} [A]	Code No.	Indicator	Weight [g]	Packaging [pcs]
690	50	002560002	-	226	6/48
		002560012	L-LED	227	
		*002560007	-	226	
		*002560017	L-LED	227	

*N pole on left "French version"

**2-pole**

U_e/U_i [V]	I_{max} [A]	Code No.	Indicator	Weight [g]	Packaging [pcs]
690	50	002560003	-	206	6/48
		002560013	L-LED	208	

3-pole

U_e/U_i [V]	I_{max} [A]	Code No.	Indicator	Weight [g]	Packaging [pcs]
690	50	002560004	-	310	4/32
		002560014	L-LED	313	

3-pole + N

U_e/U_i [V]	I_{max} [A]	Code No.	Indicator	Weight [g]	Packaging [pcs]
690	50	002560005	-	434	3/24
		002560015	L-LED	437	
		*002560008	-	434	
		*002560018	L-LED	437	

*N pole on left "French version"



Fuse-switch disconnecter EFD 22

Rated current
max. 100 ARated operational voltage
690 VUtilization category
AC 21BFor fuse-links size
22x58**1-pole**

U_e/U_i [V]	I_{max} [A]	Code No.	Indicator	Weight [g]	Packaging [pcs]
690	100	002570001	-	156	3/105
		002570011	L-LED	158	

Fuse-switch disconnectors for cylindrical fuse-links

1-pole + N

U_e/U_i [V]	I_{max} [A]	Code No.	Indicator	Weight [g]	Packaging [pcs]
690	100	002570002	-	351	2/48
		002570012	L-LED	353	
		*002570007	-	351	
		*002570017	L-LED	353	

*N pole on left "French version"

2-pole

U_e/U_i [V]	I_{max} [A]	Code No.	Indicator	Weight [g]	Packaging [pcs]
690	100	002570003	-	317	2/48
		002570013	L-LED	321	

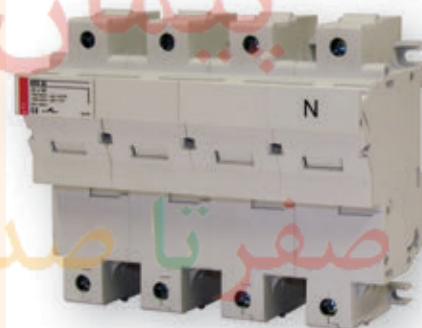
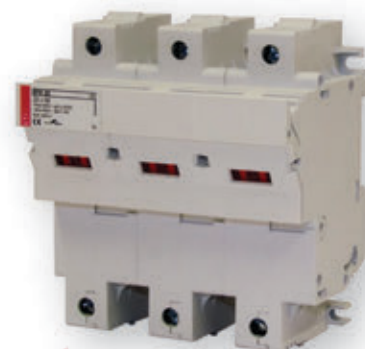
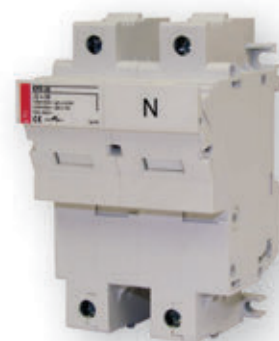
3-pole

U_e/U_i [V]	I_{max} [A]	Code No.	Indicator	Weight [g]	Packaging [pcs]
690	100	002570004	-	476	1/35
		002570014	L-LED	485	

3-pole + N

U_e/U_i [V]	I_{max} [A]	Code No.	Indicator	Weight [g]	Packaging [pcs]
690	100	002570005	-	671	1/24
		002570015	L-LED	677	
		*002570008	-	671	
		*002570018	L-LED	677	

*N pole on left "French version"



Fuse-switch disconnector EFD J30

Rated current
max. 30 ARated operational voltage
600 VFor fuse-links
Class J acc to UL4248-8

1-pole

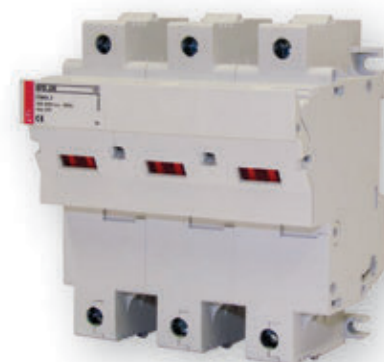
U_e/U_i [V]	I_{max} [A]	Code No.	Indicator	Weight [g]	Packaging [pcs]
600	30	002570101	-	156	3/105
		002570111	L-LED	158	

2-pole

U_e/U_i [V]	I_{max} [A]	Code No.	Indicator	Weight [g]	Packaging [pcs]
600	30	002570103	-	317	2/48
		002570113	L-LED	321	

3-pole

U_e/U_i [V]	I_{max} [A]	Code No.	Indicator	Weight [g]	Packaging [pcs]
600	30	002570104	-	476	1/35
		002570114	L-LED	485	



Fuse-switch disconnectors for cylindrical fuse-links EFD

Technical data EFD

	EFD 8		EFD 10		EFD CC		EFD 14		EFD 22		EFD J30		
Fuse type	CH 8x32		CH 10x38		Class CC		CH 14x51		CH 22x58		Class J, size J30		
	IEC		IEC	UL	UL		IEC	UL	IEC	UL	UL		
Versions	Without indicator/LED indicator/NEON indicator		Without indicator / LED indicator										
Number of poles	1p, 1p+N, 2p, 3p, 3p+N		1p, 2p, 3p		1p, 1p+N, 2p, 3p, 3p+N		1p, 2p, 3p	1p, 1p+N, 2p, 3p, 3p+N		1p, 2p, 3p			
Rated operational voltage U _e	400V a.c.		690V a.c.		600V a.c./d.c.	600V a.c./d.c.	690V a.c.		600V a.c./d.c.	690V a.c.		600V a.c./d.c.	600V a.c./d.c.
Rated operational current I _e	20A		32A		30A	30A	50A		50A	100A		100A	30A
Maximum rated current of fuselinks	690V		10A gG				25A gG 25A aM			50A gG 50A aM			
500V			25A gG 16A aM				50A gG			100A gG			
400V		20A gG 10A aM	32A gG				50A aM			100A aM			
Rated frequency	50Hz		50Hz		60Hz	60Hz	50Hz		60Hz	50Hz		60Hz	60Hz
Rated short-time withstand current I _{cw}	240A		300A/1s				600A/1s			1200A/1s			
Conventional free air thermal current I _{th}							50A			100A			
Rated conditional short-circuit current	50kA		100kA/400V		100kA	200kA	gG: 120kA/500V (50A gG) aM: 50kA/400V (50A aM)		100kA	gG: 120kA/500V (100A gG) aM: 50kA/400V (100A aM)		100kA	200kA
Rated insulation voltage U _i	400V		690V				690V			690V			
Rated imp. withstand voltage U _{imp}	8kV		8kV				8kV			8kV			
Overvoltage category (according to Table H.1 in IEC 60947-1 and according to IEC 60099-1)	III		III				III			III			
Max power dissipation of the fuse-link (W)	gG: 2,5W aM: 0,9W		gG: 3W aM: 1,2W		3W		gG: 5W aM: 3W			gG: 9,5W aM: 7W		6W	
LED indicator operating range	50V-690V a.c.		50V - 600V a.c. 80V - 600V d.c.		50V-690V a.c.		50V - 600V a.c. 80V - 600V d.c.	50V-690V a.c.		50V - 600V a.c. 80V - 600V d.c.			
NEON indicator operating range	100V-750V a.c.		100V-750V a.c.										
Utilization category	AC-22B		AC-22B		Do not operate under load		AC-22B at 690V/50A		Do not operate under load	AC-21B at 690V/100A		Do not operate under load	
Operational performance (cycles with current)	300		300				300			300			
Operational performance (cycles without current)	1700		1700				1700			1700			
Humidity													
Operating ambient temperature	-5°C ... +40°C						-5°C ... +40°C			-5°C ... +40°C			
Store ambient temperature	-25°C ... +55°C						-25°C ... +55°C			-25°C ... +55°C			
Degree of protection (IEC 60529)	IP 20		IP 20				IP 20			IP 20			
Terminal capacity	1-25mm ²		1-25mm ²		AWG 18-8 solid&stranded Cu only		1,5-35mm ² rigid or flexible		AWG 16-6 solid&stranded Cu only	4-50mm ² rigid or flexible		AWG 12-2 solid&stranded Cu only	
Screw	PZ M5		PZ M5		PZ M5	PZ M5	PZ M5		PZ M5	PZ M6		PZ M6	PZ M6
Torque	2Nm		2Nm		2Nm; 17,7 lb-in		2,5-3Nm		2Nm; 17,7 lb-in	3Nm		3Nm; 26,6 lb-in	
Mounting on EN 60715 rail	35mm rail												
Sealing possibility	ON and OFF												
Standards - fuse links	IEC/EN 60269-2		IEC/EN 60269-2	IEC/EN 60269-2	UL 248-4 IEC/EN 60269-2	IEC/EN 60269-2		IEC/EN 60269-2	IEC/EN 60269-2		IEC/EN 60269-2	UL 248-8 IEC/EN 60269-2	
Standards - Fuse-switch disconnectors/fuse holders	IEC 60947-1 IEC 60947-3		UL 4248-1 UL 4248-4 UL 486E		IEC 60947-1 IEC 60947-3		UL 4248-1 UL 486E		IEC 60947-1 IEC 60947-3		UL 4248-1 UL 486E		UL 4248-1 UL 4248-8 UL 486E
Test reports	CCA/CB		CCA/CB		UL	UL	CCA/CB		UL	CCA/CB		UL	UL
Certificates					UL _{US}	UL _{US}	UL _{US}			UL _{US}			UL _{US}

Technical data EFD

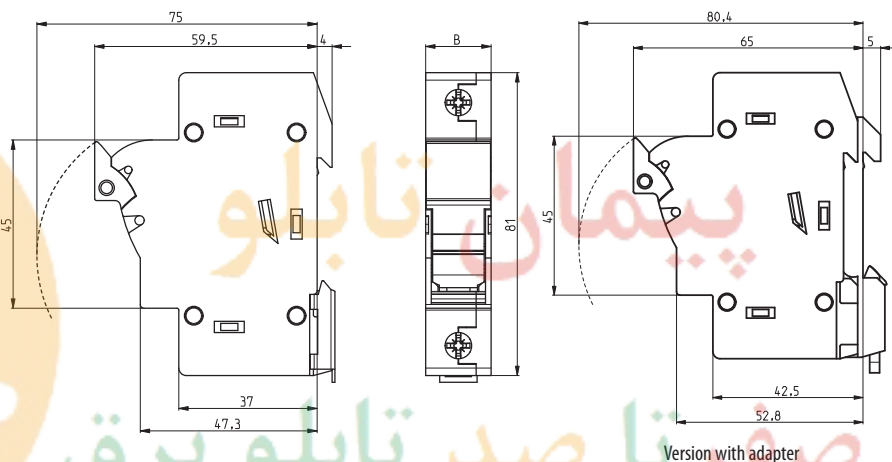
		EFD 8	EFD 10		EFD CC	EFD 14		EFD 22		EFD J30
Fuse type		CH 8x32	CH 10x38		Class CC	CH 14x51		CH 22x58		Class J, size J30
		IEC	IEC	UL	UL	IEC	UL	IEC	UL	UL
Derating factor of current I_n for different ambient temperatures	20°	1								
	30°	0,95								
	40°	0,9								
	50°	0,8								
	60°	0,7								
	70°	0,5								
Derating factor of current I_n for side by side mounting fuse holders (nr. of poles)	1-4	1								
	5-6	0,8								
	7-9	0,7								
	≥10	0,6								

Fuse-switch disconnecter EFD 8, EFD 10

type	dimension
EFD 8, 10 1p	17,5
EFD 8, 10 1p+N	35
EFD 8, 10 2p	35
EFD 8, 10 3p	52,5
EFD 8, 10 3p+N	70

Fuse-switch disconnecter EFD CC

type	dimension
EFD CC 1p	17,5
EFD CC 2p	35
EFD CC 3p	52,5



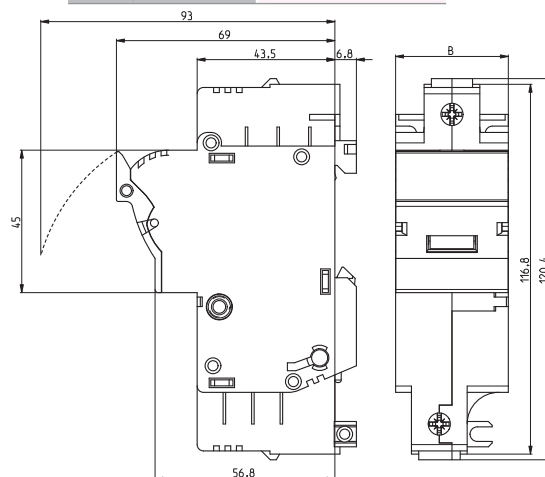
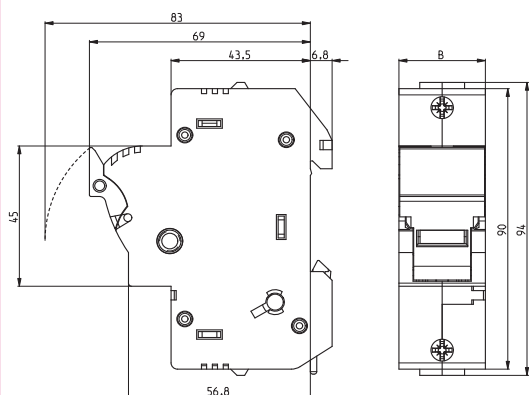
Version with adapter

Fuse-switch disconnecter EFD 14

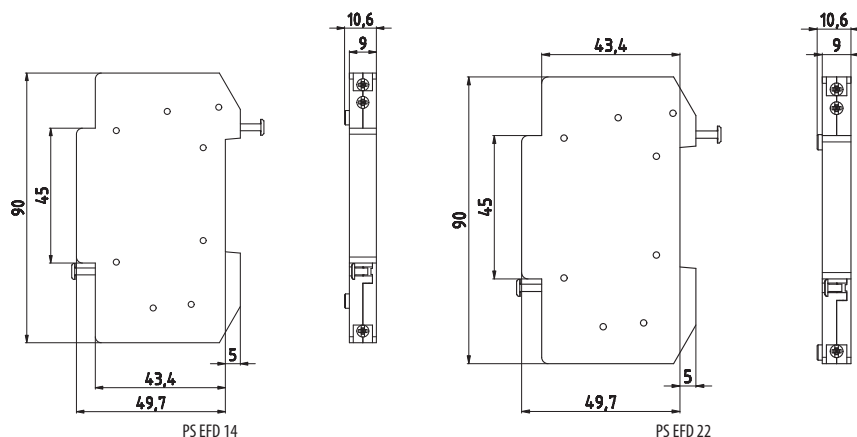
type	dimension B
EFD 14 1p	27
EFD 14 1p+N	54
EFD 14 2p	54
EFD 14 3p	81
EFD 14 3p+N	108

Fuse-switch disconnecter EFD 22 & EFD J30

type	dimension B
EFD 22, J30 1p	35,6
EFD 22 1p+N	71,2
EFD 22, J30 2p	71,2
EFD 22, J30 3p	106,8
EFD 22 3p+N	142,4



Auxiliary switch EFD



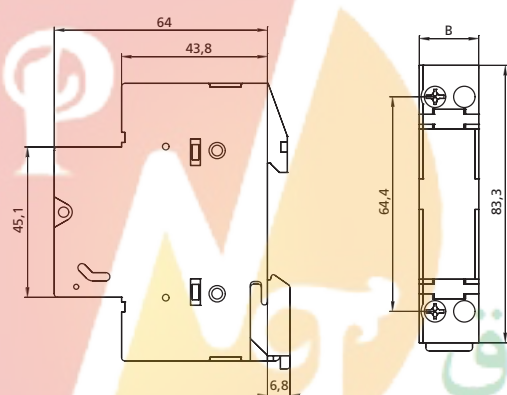
Fuse-switch disconnectors for cylindrical fuse-links PCF

Technical data PCF

	PCF 8	PCF 10	PCF CC
Fuse type	CH 8x32	CH 10x38	Class CC
	IEC	IEC	UL
Versions	Without indicator / LED indicator		
Number of poles	1p, 1p+N, 2p, 3p, 3p+N		1p, 2p, 3p
Rated operational voltage U _e	400V a.c.	690V a.c.	600V a.c./d.c.
Rated operational current I _e	20A	32A	30A
Maximum rated current of fuselinks	690V 500V 400V	10A gG 25A gG, 16A aM 32A gG	30A
Rated frequency	50Hz	50Hz	60Hz
Rated short-time withstand current I _{cw}	240A	300A	200kA
Rated conditional short-circuit current	50kA	100kA	200kA
Rated insulation voltage U _i	400V	690V	
Rated imp. withstand voltage U _{imp}	4kV	4kV	
Overvoltage category	III	III	
Max power dissipation of the fuse-link (W)	gG: 2,5W / aM: 0,9W	gG: 3W / aM: 1,2W	
LED indicator operating range	50V-690V a.c.		50V-600V a.c., 80V-600V d.c.
Utilization category	AC-22B	AC-22B	Do not operate under load
Operational performance (cycles with current)	300	300	
Operational performance (cycles without current)	1700	1700	
Humidity	90% at 20°C		
Operating ambient temperature	-5°C ... +40°C		
Store ambient temperature	-25°C ... +55°C		
Degree of protection (IEC 60529)	IP 20	IP 20	
Terminal capacity	0,5-10mm ² , Double connection		20-10 stranded, Cu only
Screw	PZ M4	PZ M4	PZ M4
Torque	1,2Nm	1,2Nm	1,2Nm
Mounting on EN 60715 rail	35mm rail		
Sealing possibility	ON and OFF		
Standards - fuse links	IEC/EN 60269-2		UL 248-4, IEC/EN 60269-2
Standards - Fuse-switch disconnectors/fuse holders	IEC 60947-1, IEC 60947-3		UL 4248-1, UL 4248-4
Test reports	Int.	CCA/CB	UL
Certificates			UL

Technical data

Technical data PCF					
		PCF 8	PCF 10		PCF CC
Fuse type		CH 8x32	CH 10x38		Class CC
		IEC	IEC	UL	UL
Derating factor of current I_n for different ambient temperatures	20º	1			
	30º	0,95			
	40º	0,9			
	50º	0,8			
	60º	0,7			
	70º	0,5			
Derating factor of current I_n for side by side mounting fuse holders (nr. of poles)	1-4	1			
	5-6	0,8			
	7-9	0,7			
	≥10	0,6			



Fuse-switch disconnecter PCF 8, PCF 10, PCF CC

type	dimension B
PCF 8, 10, CC 1p	17,8
PCF 8, 10 1p+N	17,8
PCF 8, 10, CC 2p	35,6
PCF 8, 10, CC 3p	53,4
PCF 8, 10 3p+N	53,4

Auxiliary switch PS PCF

