

GRUPPEAFBRYDER > FOR DO-SIKRING

Generelt:**Anvendelse**

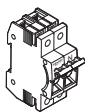
Gruppeafbryderen leveres med klemmerne åbne - klar til montering.

Konstruktion

Af hensyn til personsikkerheden kan udtrækning af sikringsskuffen kun foretages med udkoblet afbryder. Mekanismen sørger for, at denne funktion altid sker med fuldt kontaktryk. Afbryderhåndtaget hindrer udtagning af skuffen i indkoblet stilling, samtidig hindrer det indkobling, før skuffen er trykket helt på plads. Gruppeafbryderen er plomberbar i indstilling med- og uden sikring isat. Afbryderen har berøringssikre bøsningssklemmer.

Tekniske Data

Mærkedriftsspænding:	250/400 V 50/60Hz.
Kortslutningsholdbarhed:	50 kA.
Omgivelsestemperatur:	- 20 °C til + 55 °C.
Kapslingsklasse:	IP20.
Skruetype:	Kombikrydskærv pozidriv nr. 2.
Montageplan:	På DIN-skinne, vilkårlig plan.
Godkendelse:	DEMKO.

**1P+N DO1 10A**

Farve	Varenr. / El-nr.	Varegrp.	Pakning	EAN13
RAL 9003	MGN01610 10 18 021 025	18.50	1 stk.	 3 6 0 6 4 8 0 5 1 8 0 8 9

Anvendelse

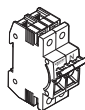
Anvendes sammen med DO1-sikringer til kortslutnings- og overbelastningsbeskyttelse af installationsledninger og elektriske anlæg.

Konstruktion

Afbryderen er opbygget over DO1-sikringssystemet.

Tekniske Data

Mærkestrøm:	10 A.
Driftskategori:	AC 22 A.
Kontakt levetid:	Min. 5.000 elektrisk og min. 10.000 mekaniske stillingsændringer.
Sikringstype:	DO1.
Tilslutningssklemmer:	Tilgang: Min. 1,5 mm ² til 6 mm ² Cu, maks. 2x6 mm ² Cu. Afgang: Min. 1,5 mm ² til 6 mm ² Cu, maks. 2x6 mm ² . 2 parallelle kabler skal have samme tværsnit eks. 2x4 mm ² .
Tilspændingsmoment:	2 Nm.
Modulbredde:	36 mm.
Egeneffekt:	2,5 W.
Standarder:	IEC/EN 60947-3, IEC 60269-3.



1P+N D01 13A

Farve	Varenr. / El-nr.	Varegrp.	Pakning	EAN13
RAL 9003	MGN01613 10 18 021 038	18.50	1 stk.	 36 06 460 518 096

Anvendelse

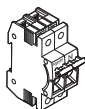
Anvendes sammen med DO1-sikringer til kortslutnings- og overbelastningsbeskyttelse af installationsledninger og elektriske anlæg.

Konstruktion

Afbryderen er opbygget over DO1-sikringssystemet.

Tekniske Data

Mærkestrøm:	13 A.
Driftskategori:	AC 22 A.
Kontakt levetid:	Min. 5.000 elektrisk og min. 10.000 mekaniske stillingsændringer.
Sikringstype:	DO1.
Tilslutningsklemmer:	Tilgang: Min. 1,5 mm ² til 6 mm ² Cu, maks. 2x6 mm ² Cu. Afgang: Min. 1,5 mm ² til 6 mm ² Cu, maks. 2x6 mm ² . 2 parallelle kabler skal have samme tværsnit eks. 2x4 mm ² .
Tilspændingsmoment:	2 Nm.
Modulbredde:	36 mm.
Egeneffekt:	2,5 W.
Standarder:	IEC/EN 60947-3, IEC 60269-3.



1P+N D01 16A

Farve	Varenr. / El-nr.	Varegrp.	Pakning	EAN13
RAL 9003	MGN01616 10 18 021 041	18.50	1 stk.	 36 06 460 518 102

Anvendelse

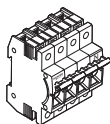
Anvendes sammen med DO1-sikringer til kortslutnings- og overbelastningsbeskyttelse af installationsledninger og elektriske anlæg.

Konstruktion

Afbryderen er opbygget over DO1-sikringssystemet.

Tekniske Data

Mærkestrøm:	16 A.
Driftskategori:	AC 22 A.
Kontakt levetid:	Min. 5.000 elektrisk og min. 10.000 mekaniske stillingsændringer.
Sikringstype:	DO1.
Tilslutningsklemmer:	Tilgang: Min. 1,5 mm ² til 6 mm ² Cu, maks. 2x6 mm ² Cu. Afgang: Min. 1,5 mm ² til 6 mm ² Cu, maks. 2x6 mm ² . 2 parallelle kabler skal have samme tværsnit eks. 2x4 mm ² .
Tilspændingsmoment:	2 Nm.
Modulbredde:	36 mm.
Egeneffekt:	2,5 W.
Standarder:	IEC/EN 60947-3, IEC 60269-3.



3P+N D01 13A

Farve	Varenr. / El-nr.	Varegrp.	Pakning	EAN13
RAL 9003	MGN01713 10 18 021 070	18.50	1 stk.	

Anvendelse

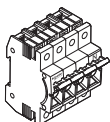
Anvendes sammen med DO1-sikringer til kortslutnings- og overbelastningsbeskyttelse af installationsledninger og elektriske anlæg.

Konstruktion

Afbryderen er opbygget over DO1-sikringssystemet.

Tekniske Data

Mærkestrøm:	13 A.
Driftskategori:	AC 22 A.
Kontakt levetid:	Min. 5.000 elektrisk og min. 10.000 mekaniske stillingsændringer.
Sikringstype:	DO1.
Tilslutningsklemmer:	Tilgang: Min. 1,5 mm ² til 6 mm ² Cu, maks. 2x6 mm ² Cu. Afgang: Min. 1,5 mm ² til 6 mm ² Cu, maks. 2x6 mm ² . 2 parallelle kabler skal have samme tværsnit eks. 2x4 mm ² .
Tilspændingsmoment:	2 Nm.
Modulbredde:	72 mm.
Egeneffekt:	7,5 W.
Standarder:	IEC/EN 60947-3, IEC 60269-3.



3P+N D01 16A

Farve	Varenr. / El-nr.	Varegrp.	Pakning	EAN13
RAL 9003	MGN01716 10 18 021 083	18.50	1 stk.	

Anvendelse

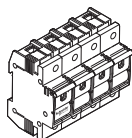
Anvendes sammen med DO1-sikringer til kortslutnings- og overbelastningsbeskyttelse af installationsledninger og elektriske anlæg.

Konstruktion

Afbryderen er opbygget over DO1-sikringssystemet.

Tekniske Data

Mærkestrøm:	16 A.
Driftskategori:	AC 22 A.
Kontakt levetid:	Min. 5.000 elektrisk og min. 10.000 mekaniske stillingsændringer.
Sikringstype:	DO1.
Tilslutningsklemmer:	Tilgang: Min. 1,5 mm ² til 6 mm ² Cu, maks. 2x6 mm ² Cu. Afgang: Min. 1,5 mm ² til 6 mm ² Cu, maks. 2x6 mm ² . 2 parallelle kabler skal have samme tværsnit eks. 2x4 mm ² .
Tilspændingsmoment:	2 Nm.
Modulbredde:	72 mm.
Egeneffekt:	7,5 W.
Standarder:	IEC/EN 60947-3, IEC 60269-3.

**3P+N DO2 63A**

Farve	Varenr. / El-nr.	Varegrp.	Pakning	EAN13
RAL 9003	MGN02763 10 18 021 135	18.50	1 stk.	

Anvendelse

Anvendes sammen med DO2-sikringer til kortslutnings- og overbelastningsbeskyttelse af installationsledninger og elektriske anlæg.

Konstruktion

Afbryderen er opbygget over DO2-sikringssystemet.

Tekniske Data

Mærkestrøm:	63 A.
Driftskategori:	AC 22.
Kontakt levetid:	Min. 8.000 (elektrisk) og min. 1.500 (mekanisk) stillingsændringer.
Sikringstype:	DO2.
Tilslutningsklemmer:	1,5 - 35 mm ² Cu eller maks. 25 mm ² Alu.
Tilspændingsmoment:	2,5 Nm.
Modulbredde:	107 mm.
Egeneffekt:	16,5 W.
Standarder:	VDE 0638. IEC/EN 60 947-3, DIN VDE 0113, DIN VDE 0110.

GRUPPEAFBRYDER > TILBEHØR**Generelt:****Anvendelse**

Pasringe til gruppeafbrydere 3- og 3P+N polet 63A DO2 skal anvendes, hvis en mindre sikring kræves.

Konstruktion

Pasringen indsættes i den åbne sikringsskuffe, for at begrænse den maks. tilladte sikring.

**Pasring for DO2 20 A - blå**

Farve	Varenr. / El-nr.	Varegrp.	Pakning	EAN13
Blå	MGN09120 10 18 021 148	18.99	1 stk.	

**Pasring for DO2 25 A - gul**

Farve	Varenr. / El-nr.	Varegrp.	Pakning	EAN13
Gul	MGN09125 10 18 021 151	18.99	1 stk.	

**Pasring for DO2 35 A - sort**

Farve	Varenr. / El-nr.	Varegrp.	Pakning	EAN13
Sort	MGN09135 10 18 021 164	18.99	1 stk.	

**Pasring for DO2 50 A - hvid**

Farve	Varenr. / El-nr.	Varegrp.	Pakning	EAN13
Hvid	MGN09150 10 18 021 177	18.99	1 stk.	



Emergency-off switch-disconnector fuse.

Emergency-off (safety) switch-disconnector fuses

The Fupact switch-disconnector fuses can be used as emergency-off devices. For this application, it must be easily visible, accessible and identifiable (see standards and rules concerning the safety of machines: VDE 0660,VDE 0113, CNOMO...).

For easy identification, the emergency-off switch-disconnector fuses use special colours stipulated by the standards and different from those of the standard version:

- yellow for the front face of the device or the control plate
- red for the handle.

The performance characteristics of the Fupact emergency-off switch-disconnector fuse are the same as those of the standard version.

The emergency-off switch-disconnector fuses are available:

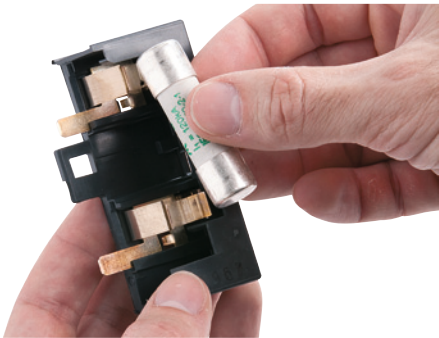
- for extended handle versions:
 - on the front for the entire range
 - at the side for ratings < 200 A
- for direct front control models from INF●200 to INF●800.

Compatible fuse-links

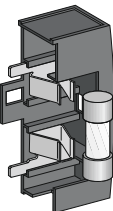
Fupact switch-disconnector fuses can be used with all fuse-links found on IEC markets (NFC, DIN, BS).

Switch-disconnector fuse	Type of fuse-link		
	NFC	DIN	BS
INF●32	■	-	■
INF●40 to INF●63	■	■	■
INF●100 to 160	■ (1)	■	■
INF●200 to 800	-	■	■

(1) Up to 125 A.

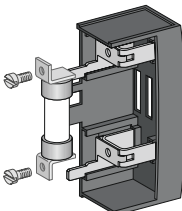


NFC

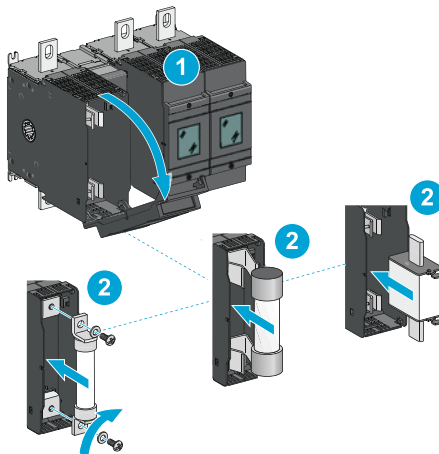


Fuse-carrier for INFC32.

BS



Fuse-carrier for INFB32.



INFD40 to INF●800.

Note: for ratings ≤ 63 A, the fuse-carriers are different for each type of fuse-link. For ratings ≥ 100 A, the switch-disconnector fuses are different for each type of fuse-link.

Total user safety

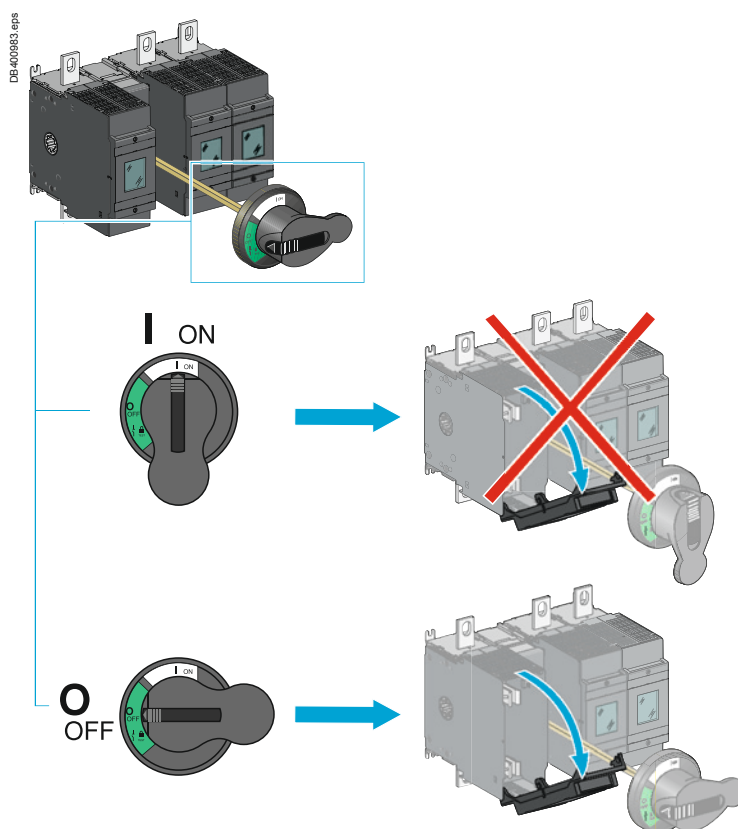
Switch-disconnector fuses equipped with terminal shields offer IP20 protection. They are totally protected against accidental direct contact.

Access to the fuses is:

- blocked when INF•32 to INF•800 switch-disconnector fuses are in the ON position (the fuse-carriers and the fuse-covers INF•40 to INF•800 are maintained)
- only possible when the handle is in the OFF position.
- when product is in the ON position with door closed, nevertheless, it's possible to unlock best with a specific tool (please refer to your support sales).

The double-isolation feature of the switch-disconnector fuse ensures isolation of the fuse-link and, if necessary, its replacement without any risk.

The switch-disconnector fuses have high making and breaking capacities (see page A-6). The operating mechanism (opening and closing) features is independent from a manual operation (speed and force independent of operator action).



Protection against access to live fuses.

Switch-disconnector fuse
selection
Fupact INF●32 to INF●160



INF32.



INF63.



INF160.

Switch-disconnector fuses		
Number of poles / type of fuse-link	3 poles / 3 fuse-links	
	4 poles / 3 fuse-links + switched neutral	
	4 poles / 4 fuse-links	
Electrical characteristics as defined by IEC 60947-1 / IEC 60947-3 and EN 60947-1 / EN 60947-3		
Conventional thermal current (A)	In free air	I_{th} at 40 °C
	Maximum fuse power dissipation (W)	
	In enclosure	I_{the} at 40 °C
	Maximum fuse power dissipation (W)	
Rated insulation voltage (V)	U_i	AC 50/60 Hz / DC
Rated impulse withstand voltage (kV)	U_{imp}	
Rated operational voltage (V)	U_e	AC 50/60 Hz
		DC
Rated operational voltage AC20 and DC20 (V)	U_e	
Rated operational current (A)	I_e	AC 50/60 Hz
		220/240 V
		380/415 V
		440/480 V ⁽¹⁾
		500/525 V
		660/690 V
		DC/poles in series
		250 V/nbr of poles
		440 V/nbr of poles
		750 V/nbr of poles
Rated operational power (kW) ⁽³⁾ (motor power given for direct on-line starting)	AC	220/240 V
		380/400 V
		415 V
		500/525 V
		660/690 V
Rated duties	Uninterrupted duty	
	Intermittent duty	
Rated short-circuit making capacity (kA peak) Switch-disconnector without fuse (refer to single-phase fuse limitation curves)	I_{cm}	415 V
		500 V
		690 V
Rated short-circuit breaking capacity (kA rms) / Rated short-circuit making capacity (kA peak) ⁽⁴⁾	I_{cn} / I_{cm}	415 V (BS)
		500 V (DIN)
		690 V (DIN)
Rated short-time withstand current (A rms)	I_{cw}	1 s
		3 s
		20 s
		30 s
Endurance (category A) (CO cycles)	Mechanical	
	Electrical AC	AC22A 500 V
		AC22A 690 V
		AC23A 500 V
		AC23A 690 V
Suitability for isolation		
Positive contact indication		
Pollution degree		
Control		
Direct front rotary handle		
Extended front rotary handle		
Extended lateral rotary handle		
Locking by padlocks		
Operating torque (typical for 3-pole switch-disconnector fuses) (Nm)		
Indication auxiliaries		
Auxiliary contacts		
Blown-fuse indicator		
Fuse monitor		
Auxiliary contact test position		

⁽¹⁾ Suitable for 480 V NEMA.
⁽²⁾ AC23B.
⁽³⁾ Some fuse-links limit these values. Motor starting current must be considered separately.
⁽⁴⁾ Switch-disconnector combined with fuses.

	INF●32		INF40		INF●63		INFB100		INFC125		INF●160	
	NFC-BS		DIN		NFC-DIN-BS		BS		NFC		DIN-BS	
	NFC-BS		DIN		NFC-DIN-BS		BS		NFC		DIN-BS	
	NFC		DIN		NFC-DIN		-		NFC		DIN	
	32		40		63		100		125		160	
	3.5		7.5		7.5		12		12		12	
	32		40		63		100		125		160	135
	3.5		7.5		7.5		12		12		10	12
	1000		1000		1000		1000		1000		1000	
	12		12		12		12		12		12	
	690		690		690		690		690		690	
	250		440		440		440		440		440	
	690		1000		1000		1000		1000		1000	
	AC22A	AC23A	AC22A	AC23A	AC22A	AC23A	AC22A	AC23A	AC22A	AC23A	AC22A	AC23A
	32	32	40	40	63	63	100	100	125	125	160	160
	32	32	40	40	63	63	100	100	125	125	160	160
	32	32	40	40	63	63	100	100	125	125	160	160
	32	32	40	40	63	63	100	100	125	125	160	160
	32	32	40	40	63	63 ⁽²⁾	100	100 ⁽²⁾	125	125 ⁽²⁾	160	160 ⁽²⁾
	DC22A	DC23A	DC21B	DC23B	DC21B	DC23B	DC21B	DC23B	DC21B	DC23B	DC21B	DC23B
	32/2	32/2	40/2	40/2	63/2	63/2	100/2	100/2	125/2	125/2	125/2	125/2
	32/4	32/4	40/4	-	50/4	-	100/4	-	125/2	-	125/2	-
	-	-	-	-	-	-	-	-	-	-	-	-
	8		18.5		18.5		30		37		45	
	14		30		30		55		55		75	
	15		30		30		55		55		75	
	18		37		37		55		55		90	
	25		55		55		90		90		132	
	■		■		■		■		■		■	
	class 120-60 %		class 120-60 %		class 120-60 %		class 120-60 %		class 120-60 %		class 120-60 %	
	9		17		17		23		29		29	
	7.5		17		17		22		22		22	
	6		13		13		16		16		16	
	80/176		80/176		80/176		80/176		80/176		80/176	
	100/220		100/220		100/220		100/220		100/220		100/220	
	50/105		50/105		50/105		50/105		50/105		50/105	
	1000		2500		2500		5000		5000		5000	
	570		1440		1440		2900		2900		2900	
	220		560		560		1150		1150		1150	
	180		460		460		950		950		950	
	10000		10000		10000		10000		10000		10000	
	1500		1500		1500		1500		1500		1500	
	1500		1500		1500		1500		1500		1500	
	1500		1500		1500		1500		1500		1500	
	1500		1500		1500		1500		1500		1500	
	■		■		■		■		■		■	
	■		yes		yes		yes		yes		yes	
	3		3		3		3		3		3	
	■		■		■		■		■		■	
	■		■		■		■		■		■	
	■		■		■		■		■		■	
	■		■		■		■		■		■	
	3		5		5		7		7		7	
	■		■		■		■		■		■	
	■		■		■		■		■		■	
	■		■		■		■		■		■	
	■		■		■		■		■		■	

Switch-disconnector fuse
selection
Fupact INF●32 to INF●160



INF32.



INFC63.



INF160.

Switch-disconnector fuses		
Type of fuse-link		
NFC	10 x 38	
	14 x 51	
	22 x 58	
DIN (NH)	NH000	
	NH00	
BS (fixing centres in mm) ⁽²⁾	A1 (44.5)	
	A2 (73.0)	
	A3 (73.0)	
	A4 (93.7)	
Installation and connection		
Fixed front connection		
Terminal tightening torque (Nm)		
Fuse-link bolt tightening torque (Nm)		
Installation and connection accessories		
Bare cable connectors		
Terminals		
Neutral link		
Terminal shields		
Dimensions and weight		
Overall dimensions H x W x D (mm)	3P	
Front DIN/NFC version	4P	
Overall dimensions H x W x D (mm)	3P	
Lateral DIN/NFC version	4P	
Overall dimensions H x W x D (mm)	3P	
Front BS version	4P	
Overall dimensions H x W x D (mm)	3P	
Lateral BS version	4P	
Approximate weight without fuse	3P	
and without accessory (kg)	4P	
Enclosure dimensions for lthe		
	H x W x D (mm)	
Temperature derating ^{(3) (4)}		
"Vertical mounting" fuse-links in vertical position	lth (A)	40 °C
		45 °C
		50 °C
		55 °C
		60 °C
		65 °C
		70 °C
"Horizontal mounting" fuse-links in horizontal position	lthe (A)	35 °C
		40 °C
		45 °C
		50 °C
		55 °C
		60 °C
		65 °C
		70 °C

⁽¹⁾ Maximum fuse body diameter: Ø32 mm.
⁽²⁾ A: fuse-link with centre bolted tags.
⁽³⁾ Derating data is based on:
- the maximum rating for fuse-links intended for the device
- maximum power dissipation.
⁽⁴⁾ For installation on a ceiling, derate an additional 10 %.

	INF●32	INF40	INF●63	INFB100	INFC125	INF●160
	■	-	-	-	-	-
	■	-	■ (50 A)	-	-	-
	-	-	■	-	■	-
	-	■	■	-	-	■
	-	-	■	-	-	■
	■	-	-	-	-	-
	■	-	■	■	-	■
	-	-	■	■	-	■
	-	-	-	■ ⁽¹⁾	-	■ ⁽¹⁾
	■	■	■	■	■	■
	2	4	4	M8 x 25	M8 x 25	M8 x 25
	2	3.5	3.5	M5: 3.5 M8: 5	M5: 3.5 M8: 5	M5: 3.5 M8: 5
	■ (standard)	■ (standard)	■ (standard)	■ (optional)	■ (optional)	■ (optional)
	-	-	-	■	■	■
	■	■	■	■	■	■
	-	-	-	■	■	■
	97 x 106 x 105	100 x 114.5 x 120.5	100 x 114.5 x 120.5	140 x 148 x 130	140 x 148 x 130	140 x 148 x 130
	97 x 142 x 105	100 x 138 x 120.5	100 x 138 x 120.5	140 x 183 x 130	140 x 183 x 130	140 x 183 x 130
	97 x 129 x 105	100 x 146.5 x 132.5	100 x 146.5 x 132.5	140 x 181.5 x 142	140 x 181.5 x 142	140 x 181.5 x 142
	97 x 165 x 105	100 x 170 x 132.5	100 x 170 x 132.5	140 x 216.5 x 142	140 x 216.5 x 142	140 x 216.5 x 142
	97 x 106 x 105	100 x 114.5 x 105.5	100 x 114.5 x 105.5	140 x 148 x 114.5	140 x 148 x 114.5	140 x 148 x 114.5
	97 x 142 x 105	100 x 138 x 105.5	100 x 138 x 105.5	140 x 183 x 114.5	140 x 183 x 114.5	140 x 183 x 114.5
	97 x 129 x 105	100 x 146.5 x 120.5	100 x 146.5 x 120.5	140 x 181.5 x 126.5	140 x 181.5 x 126.5	140 x 181.5 x 126.5
	97 x 165 x 105	100 x 170 x 120.5	100 x 170 x 120.5	140 x 216.5 x 126.5	140 x 216.5 x 126.5	140 x 216.5 x 126.5
	0.7	1.1	1.1	1.4	1.4	1.4
	0.9	1.3	1.3	1.8	1.8	1.8
	300 x 350 x 200					
	NFC-BS	DIN	NFC-DIN-BS	BS	NFC	DIN-BS
	32	63	63	100	125	160
	30.4	58	58	93	116	148
	28.8	56	56	89	111	142
	27.2	53	53	85	106	135
	25.6	51	51	80	100	128
	25	48	48	76	95	121
	24.4	45	45	71	88	113
	31	63	63	100	125	160
	29.5	61	61	96	120	154
	28	58	58	93	116	148
	26.5	56	56	89	111	142
	25	53	53	85	106	135
	23.5	51	51	80	100	128
	22	48	48	76	94	121
	20.5	45	45	71	88	113

Switch-disconnector fuse
selection
Fupact INF●200 to INF●800



INF200.



INF400.



INF800.

Switch-disconnector fuses			
Number of poles / type of fuse-link	3 poles / 3 fuse-links		
	4 poles / 3 fuse-links + switched neutral		
	4 poles / 4 fuse-links		
Electrical characteristics as defined by IEC 60947-1 / IEC 60947-3 and EN 60947-1 / EN 60947-3			
Conventional thermal current (A)	In free air	I_{th} at 40 °C	
	Maximum fuse power dissipation (W)		
	In enclosure	I_{the} at 40 °C	
Maximum fuse power dissipation (W)			
Rated insulation voltage (V)	U_i	AC 50/60 Hz / DC	
Rated impulse withstand voltage (kV)	U_{imp}		
Rated operational voltage (V)	U_e	AC 50/60 Hz	
		DC	
Rated operational voltage AC20 and DC20 (V)	U_e		
Rated operational current (A)	I_e	AC 50/60 Hz	
		220/240 V	
		380/415 V	
		440/480 V ⁽¹⁾	
		500/525 V	
		660/690 V	
		DC/poles in series	
		125 V/nbr of poles	
		250 V/nbr of poles	
		500 V/nbr of poles	
750 V/nbr of poles			
Rated operational power (kW) ⁽²⁾ (motor power given for direct on-line starting)	AC	220/240 V	
		380/400 V	
		415 V	
		500/525 V	
		660/690 V	
Rated duties		Uninterrupted duty Intermittent duty	
Rated short-circuit making capacity (kA peak) Switch-disconnector without fuse (refer to single-phase fuse limitation curves)	I_{cm}	415 V 500 V 690 V	
Rated short-circuit breaking capacity (kA rms) / Rated short-circuit making capacity (kA peak) ⁽³⁾		I_{cn} / I_{cm}	415 V (BS) 500 V (DIN) 690 V (DIN)
Rated short-time withstand current (A rms)	I_{cw}	1 s 3 s 20 s 30 s	
Endurance (category A) (CO cycles)	Mechanical Electrical AC	AC22A 500 V AC22A 690 V AC23A 500 V AC23A 690 V	
Suitability for isolation			
Positive contact indication			
Pollution degree			
Control			
Direct front rotary handle			
Extended front rotary handle			
Extended lateral rotary handle			
Locking by padlocks			
Operating torque (typical for 3-pole switch-disconnector fuses) (Nm)			
Indication auxiliaries			
Auxiliary contacts			
Blown-fuse indicator			
Fuse monitor			
Auxiliary contact test position			

⁽¹⁾ Suitable for 480 V NEMA.
⁽²⁾ Some fuse-links limit these values.
Motor starting current must be considered separately.
⁽³⁾ Switch-disconnector combined with fuses.
⁽⁴⁾ Category B.
⁽⁵⁾ Only for DIN fuse-links.

	INF●200		INF●250		INF●400		INF●630		INF●800	
	DIN-BS		DIN-BS		DIN-BS		DIN-BS		DIN-BS	
	DIN-BS		DIN-BS		DIN-BS		DIN-BS		DIN-BS	
	DIN		DIN		DIN		DIN		DIN	
	200		250		400		630		800	
	17		23		45		60		65	
	200	180	250	230	400	360	570		720	
	15	18	20	27	30	37	50		55	
	1000		1000		1000		1000		1000	
	12		12		12		12		12	
	690		690		690		690		690	
	750		750		750		750		750	
	1000		1000		1000		1000		1000	
	AC22A	AC23A	AC22A	AC23A	AC22A	AC23A	AC22A	AC23A	AC22A	AC23A
	200	200	250	250	400	400	630	630	800	800
	200	200	250	250	400	400	630	630	800	800
	200	200	250	250	400	400	630	630	800	800
	200	200	250	250	400	400	630	630	800	800
	200	200	250	250	400	400	630	630	800	800
	DC22A	DC23A	DC22A	DC23A	DC22A	DC23A	DC22A	DC23A	DC22A	DC23A
	200/1	200/1	250/1	250/1	400/2	400/2	630/1	630/1	800/1	800/1
	200/2	200/2	250/2	250/2	400/3	400/3	630/2 ⁽⁴⁾	630/2 ⁽⁴⁾	800/2 ⁽⁴⁾	800/2 ⁽⁴⁾
	200/3	200/3	250/3	250/3	400/4 ⁽⁴⁾	400/4 ⁽⁴⁾	630/3 ⁽⁴⁾	630/3 ⁽⁴⁾	720/3 ⁽⁴⁾	720/3 ⁽⁴⁾
	180/4	180/4	230/4	230/4	400/4 ⁽⁴⁾	400/4 ⁽⁴⁾	630/4 ⁽⁴⁾	630/4 ⁽⁴⁾	720/4 ⁽⁴⁾	720/4 ⁽⁴⁾
	60		75		132		200		250	
	110		140		220		355		450	
	110		145		230		355		450	
	132		170		280		450		560	
	200		250		400		630		710	
	■		■		■		■		■	
	class 120-60 %		class 120-60 %		class 120-60 %		class 120-60 %		class 120-60 %	
	35		40.5		59		77		77	
	37.5		37.5		63.5		83		83	
	28		28		48		55		55	
	80/176		80/176		80/176		80/176		80/176	
	100/220		100/220		100/220		100/220		100/220	
	80/176		80/176		80/176		80/176		80/176	
	8000		8000		14000		18000		18000	
	4620		4620		8080		10400		10400	
	1790		1790		3130		4000		4000	
	1460		1460		2550		3300		3300	
	10000		10000		8000		5000		5000	
	1000		1000		1000		1000		500	
	1000		1000		1000		1000		500	
	1000		1000		1000		1000		500	
	1000		1000		1000		1000		500	
	■		■		■		■		■	
	■		■		■		■		■	
	3		3		3		3		3	
	■		■		■		■		■	
	■		■		■		■		■	
	-		-		-		-		-	
	■		■		■		■		■	
	7		7		19		38		38	
	■		■		■		■		■	
	■ ⁽⁵⁾		■ ⁽⁵⁾		■ ⁽⁵⁾		■ ⁽⁵⁾		■ ⁽⁵⁾	
	■		■		■		■		■	
	■		■		■		■		■	

Switch-disconnector fuse
selection
Fupact INF●200 to INF●800



INF200.



INF400.



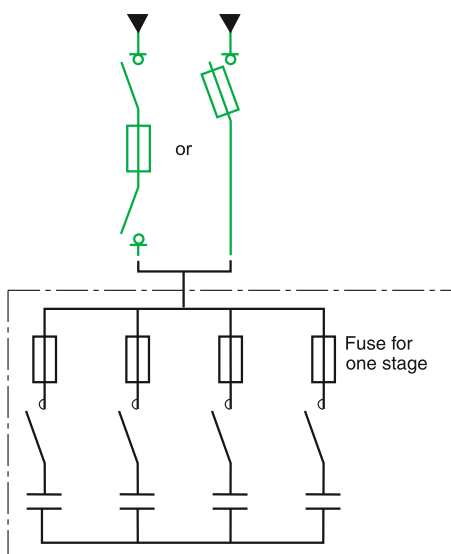
INF800.

Switch-disconnector fuses		
Type of fuse-link		
DIN (NH)	NH (0)	
	NH (0, 1)	
	NH (0, 1, 2)	
	NH (3)	
	NH (6)	
BS (fixing centres in mm) ⁽¹⁾	B1 (111)	
	B2 (111)	
	B3 (111)	
	B4 (111)	
	C1 (133)	
	C2 (133)	
	C3 (133)	
Installation and connection		
Fixed front connection		
Terminal tightening torque (Nm)		
Fuse-link bolt tightening torque (Nm)		
Installation and connection accessories		
Bare cable connectors		
Terminals		
Neutral link		
Terminal shields		
Dimensions and weight		
Overall dimensions H x W x D (mm)	3P (DIN)	
	3P (BS)	
	4P (DIN)	
	4P (BS)	
Approximate weight without fuses (kg)	3P	
	4P	
Enclosure dimensions for lthe		
	H x W x D (mm)	
Temperature derating ^{(2) (3)}		
"Vertical mounting" fuse-links in vertical position	lth (A)	40 °C
		45 °C
		50 °C
		55 °C
		60 °C
		65 °C
		70 °C
"Horizontal mounting" fuse-links in horizontal position	lth (A)	35 °C
		40 °C
		45 °C
		50 °C
		55 °C
		60 °C
		65 °C
		70 °C

(1) B: fuse-link with offset bolted tags.
(2) Derating data is based on:
- the maximum rating for fuse-links intended for the device
- maximum power dissipation.
(3) For installation on a ceiling, derate an additional 10 %.
(4) Maximum fuse body diameter: Ø 52 mm.
(5) Maximum fuse body diameter: Ø 62 mm.

	INF●200	INF●250	INF●400	INF●630	INF●800
	■	-	-	-	-
	-	■	-	-	-
	-	-	■	-	-
	-	-	-	■	■
	■	■	■	-	-
	■	■	■	-	-
	-	■ ⁽⁴⁾	■	-	-
	-	-	■ ⁽⁵⁾	-	-
	-	-	-	■	■
	-	-	-	■	■
	-	-	-	-	■
	■	■	■	■	■
	15-22	30-44	30-44	50-75	50-75
	4	5	20	M10 : 30 M12 : 40	M10 : 30 M12 : 40
	■ (optional)	■ (optional)	■ (optional)	■ (optional)	■ (optional)
	■	■	■	■	■
	■	■	■	■	■
	■	■	■	■	■
	199 x 175.5 x 149	193 x 206 x 154	230 x 254 x 193	306 x 341 x 233	306 x 341 x 233
	199 x 175.5 x 130		230 x 254 x 176		
	199 x 219 x 149	193 x 260 x 154	230 x 318 x 193	306 x 429 x 233	306 x 429 x 233
	199 x 219 x 130		230 x 318 x 176		
	2.6	3.1	5.7	11.5	11.5
	3.6	4.1	7.7	14.4	14.4
	600 x 350 x 300	800 x 400 x 330	610 x 508 x 254	800 x 1000 x 330	800 x 1000 x 330
	DIN-BS	DIN-BS	DIN-BS	DIN-BS	DIN-BS
	200	250	400	630	800
	185	232	370	583	741
	177	222	355	558	709
	169	211	338	532	676
	160	200	321	505	641
	151	189	302	476	605
	141	177	283	446	566
	200	250	400	570	720
	193	241	385	549	694
	185	231	370	528	667
	177	222	355	505	638
	169	211	338	482	609
	160	200	321	457	577
	151	189	302	431	544
	141	177	283	403	509

DB115216.eps



Capacitor-bank protection.

056639A-30.eps



Rectimat 2 capacitor bank.

Protection of capacitors

It is necessary to take into account:

- permissible variations in the fundamental voltage and in harmonic content
The increase in the current rating for the protection device may reach 30 %.

- variations due to capacitor tolerances.

The increase in the current rating for the protection device may reach 15 % (but only 5 % for Rectiphase capacitors).

Given the above, the generally required correction factor ranges from 1.6 to 2.

For Rectiphase capacitor banks, an optimised factor of only 1.4 may be used for standard banks.

Protection table for fixed or automatic capacitor banks

400/415 V		
Capacitor (kVAR)	gG fuse-link rating	Fupact
10 kVAR	20 A	INF●32 / INF40
20 kVAR	40 A	INF●63 / INF40
30 kVAR	63 A	INF●63
50 kVAR	100 A	INF●125
60 kVAR	125 A	INF●125
80 kVAR	160 A	INF●250
105 kVAR	250 A	INF●250
150 kVAR	315 A	INF●400
210 kVAR	450 A	INF●630
315 kVAR	670 A	INF●800

690 V		
Capacitor (kVAR)	gG fuse-link rating	Fupact
10 kVAR	16 A	INF●32 / INF40
20 kVAR	32 A	INF●32 / INF40
30 kVAR	40 A	INF●63 / INF40
50 kVAR	63 A	INF●63
60 kVAR	80 A	INF●125
80 kVAR	100 A	INF●125
105 kVAR	125 A	INF●160
150 kVAR	200 A	INF●250
210 kVAR	250 A	INF●400
315 kVAR	400 A	INF●400
405 kVAR	500 A	INF●630
450 kVAR	560 A	INF●630
495 kVAR	630 A	INF●800
540 kVAR	670 A	INF●800