



## Fused loadbreak disconnectors

- Fulos 1 DIN - 250A**
- Fulos 2 DIN - 400A**
- Fulos 1 BS - 200A<sup>(1)</sup>**
- Fulos 2 BS - 400A**



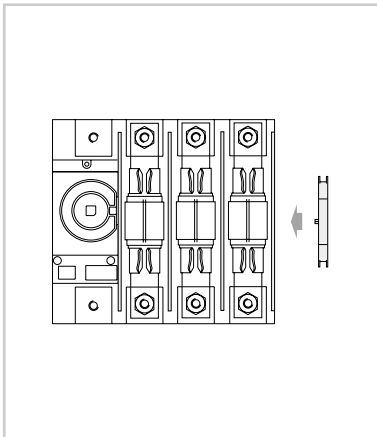
### Applications



### Approvals / Marking



### Add-on devices



### Performance

- Panel mounting
- Fused safety disconnector (main disconnector)
- Disconnect function
- Visible contact indication - transparent cover
- Quick make and quick break mechanism
- Independent opening and closing
- Positive contact indication (PCI)
- Very low power losses
- Fuse completely disconnected in "OFF"
- Defeat mechanism rotary handle
- Double knife contacts - high short-circuit resistance
- Number of poles 3P - 4P

### Standards

#### For disconnectors

IEC 60947-1 and IEC 60947-3, DIN VDE 0660 Teil 107, BS EN 60947-3, CEI 17-11 (Fasc. 1039), EN 60947-3, NBN EN 60947-3, NF C 63-130  
Safety disconnector (red/yellow) according to DIN VDE 0113 Teil 1

#### For fuses

IEC 60269-2-1, BS 88 Part 2 1988, DIN VDE 0636 Teil 1, NF EN 60269-1, NF C 63-211, NF C 63-210



### Technical data

	DIN 1/2	BS B1-B4
Rated thermal current	250A/400A	200A/400A
Rated operational voltage Ue	690V	690V
Rated insulation voltage Ui	1000V	1000V
Rated short-circuit current	100kA	100kA
Terminal capacity (Cu)	2x40x6	2x40x6

(1) BS A4 GTMF - 415V - 400A

- Technical data ● pg. C.6
- Installation facilities ● pg. D.6
- Dimensions ● pg. E.5




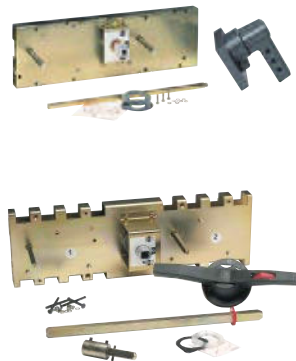
### Fulos 1 - Fused loadbreak disconnectors

According to DIN		Description	In (A)	Cat. no.	Ref. no.	Pack.
	3P	NH 1	250	D/062341-201	<b>730569</b>	1
	3P+N	NH 1	250	D/062441-201	<b>730585</b>	1
	3P+NF	NH 1 - Fixed neutral	250	D/062541-201	<b>730601</b>	1
According to BS		Description	In (A)	Cat. no.	Ref. no.	Pack.
	3P	BS B1-B2 (TC / TF Ø 33.7 - 690V)	200	D/062342-221	<b>730823</b>	1
		BS B4 (GTMF Ø 40.4 - 415V)	400	D/062342-222	<b>731931</b>	1
	3P+N	BS B1-B2 (TC / TF Ø 33.7 - 690V)	200	D/062442-221	<b>730835</b>	1
		BS B4 (GTMF Ø 40.4 - 415V)	400	D/062442-222	<b>731933</b>	1
	3P+NF	BS B1-B2 (TC / TF Ø 33.7 - 690V)	200	D/062542-221	<b>730847</b>	1
		BS B4 (GTMF Ø 40.4 - 415V) Fixed neutral	400	D/062542-222	<b>731935</b>	1

### Fulos 1 - Safety fused loadbreak disconnectors

According to DIN		Description	In (A)	Cat. no.	Ref. no.	Pack.
	3P	NH 1 - with yellow label, acc. DIN VDE 0113 Teil 1	250	D/062341-203	<b>730570</b>	1
	3P+N	NH 1 - with yellow label, acc. DIN VDE 0113 Teil 1	250	D/062441-203	<b>730586</b>	1

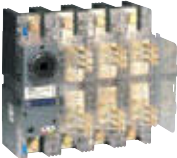

### Accessories

	<b>Direct handles</b>					
	D/062930-251	<b>731420</b>	1			
	Low grey					
	D/062930-253	<b>731421</b>	1			
	Low red					
	<b>Handles for inner door</b>					
	IP65 - With extension shaft 300 mm					
	Reduced height 55 mm - Padlockable					
	D/062947-202	<b>731352</b>	1			
	Black					
	D/062947-203	<b>731353</b>	1			
	Red/yellow					
	<b>Handles for cover or hinged door</b>					
	IP54 - Defeat - Padlockable					
	With extension shaft 300 mm (14/14)					
	D/062940-241	<b>730667</b>	1			
	Grey					
	D/062940-243	<b>730668</b>	1			
	Red/yellow					
	D/062940-281	<b>730855</b>	1			
	Special set for disconnector with neutral on the right - grey					
	<b>Changeover system (I-O-II)</b>					
	With extension shaft 300 mm, padlockable handle, gasket, flange and template					
	Padlockable					
	D/062940-265	<b>730669</b>	1			
	With handle IP54 - Defeat mechanism					
	As above but with handle 55 mm height - for inner door					
	D/062947-265	<b>731457</b>	1			
	With black handle IP65					

**Accessories Fulos 1 (continued)**

	<b>Standard auxiliary contacts</b> To be added on the right side	<table border="1"> <tr> <td>D/061901-001</td> <td><b>730252</b></td> <td>1</td> </tr> <tr> <td colspan="3">1PCO</td> </tr> <tr> <td>D/061901-002</td> <td><b>730253</b></td> <td>1</td> </tr> <tr> <td colspan="3">2PCO</td> </tr> <tr> <td colspan="3">Max. current rating for AC 15 and DC 13</td> </tr> <tr> <td>AC</td> <td colspan="2">3A at 380V</td> </tr> <tr> <td></td> <td colspan="2">5A at 220V</td> </tr> <tr> <td>DC</td> <td colspan="2">0.5A at 220V</td> </tr> <tr> <td></td> <td colspan="2">0.7A at 110V</td> </tr> <tr> <td></td> <td colspan="2">1A at 60V</td> </tr> <tr> <td></td> <td colspan="2">2A at 48V</td> </tr> <tr> <td></td> <td colspan="2">4A at 24V</td> </tr> </table>	D/061901-001	<b>730252</b>	1	1PCO			D/061901-002	<b>730253</b>	1	2PCO			Max. current rating for AC 15 and DC 13			AC	3A at 380V			5A at 220V		DC	0.5A at 220V			0.7A at 110V			1A at 60V			2A at 48V			4A at 24V		<b>Fuse protection cover</b> <table border="1"> <tr> <td>D/062942-225</td> <td><b>730620</b></td> <td>1</td> </tr> <tr> <td colspan="3">3P</td> </tr> </table>	D/062942-225	<b>730620</b>	1	3P			
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D/062942-254	<b>730636</b>	1																																												
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**Fulos 2 - Fused loadbreak disconnectors**

According to DIN		Description	In (A)	Cat. no.	Ref. no.	Pack.
	<b>3P</b>	NH 2	400	D/062351-201	<b>730572</b>	1
	<b>3P+N</b>	NH 2	400	D/062451-201	<b>730588</b>	1
	<b>3P+NF</b>	NH 2	400	D/062551-201	<b>730604</b>	1
According to BS		Description	In (A)	Cat. no.	Ref. no.	Pack.
	<b>3P</b>	BS B3-B4 (TKF / TMF - 690V)	400	D/062352-241	<b>730824</b>	1
	<b>3P+N</b>	BS B3-B4 (TKF / TMF - 690V)	400	D/062452-241	<b>730836</b>	1
	<b>3P+NF</b>	BS B3-B4 (TKF / TMF - 690V)	400	D/062552-241	<b>730848</b>	1

Accessories Fulos 2



<b>Direct handles</b>		
D/062930-251	<b>731420</b>	1
Low grey		

**Handles for cover or hinged door**  
IP54 - Defeat - Padlockable  
With extension shaft 300 mm (14/14)



D/062940-241	<b>730667</b>	1
Grey		
D/062940-281	<b>730855</b>	1
Special set for disconnectors with neutral on the right - grey		

**Handles for inner door**  
IP65 - Padlockable



D/062947-202	<b>731352</b>	1
Black, reduced height 55 mm		
With extension shaft 300 mm		

**Standard auxiliary contacts**  
To be added on the right side



D/061901-001	<b>730252</b>	1
1P CO		
D/061901-002	<b>730253</b>	1
2P CO		
Max. current rating for AC 15 and DC 13		
AC	3A at 380V	
	5A at 220V	
DC	0.5A at 220V	
	0.7A at 110V	
	1A at 60V	
	2A at 48V	
	4A at 24V	

**Anticipated auxiliary contacts**  
(early make and early break)  
To be mounted inside



P9B10VN	<b>187002</b>	1
1P NO		
P9B01VR	<b>187003</b>	1
1P NC		

**Fuse protection cover**  
D/062942-225 **730620** 1  
3P



**Changeover system (I-O-II)**  
With extension shaft 300 mm,  
padlockable handle, gasket,  
flange and template  
Padlockable

D/062940-265	<b>730669</b>	1
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With handle IP54 - defeat  
  
As above but with handle 55 mm height  
for inner door

D/062947-265	<b>731457</b>	1
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With black handle IP65



**Terminals (Cu or Al 240 mm<sup>2</sup>)**

D/062942-213	<b>730633</b>	1
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Set of 3 box terminals with cover

D/062942-214	<b>730634</b>	1
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Set of 4 box terminals with cover



**Rear connections with cover**

D/062942-253	<b>730635</b>	1
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Set of 3 pieces

D/062942-254	<b>730636</b>	1
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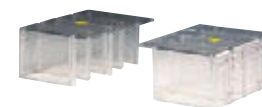
Set of 4 pieces



**Terminal covers - 4P**

D/062942-220	<b>730618</b>	1
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Set of 2 long box terminal covers



D/062942-226	<b>731461</b>	1
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Set of 2 short box terminal covers

IP20 - sealable



D/062942-221	<b>730619</b>	1
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Set of 2 connection bolt covers



Fulos 2

A

B

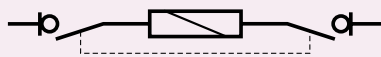
C

D

E

X

**Fulos - Fused loadbreak disconnectors for wall mounting**



			Fulos 000 NF 14 x 51	Fulos 000 NF 22 x 58	Fulos 000 DIN 00	Fulos 000 DIN 00	Fulos 000 DIN 00	Fulos 00 DIN 00	Fulos 1 DIN 1
Conventional thermal current Ith	(A)		50	100	32	63	100	160	250
Conventional enclosed thermal current Ithe	(A)		50	100	32	63	100	160	250
Number of poles			3/3+N	3/3+N	3/3+N	3/3+N	3/3+N	3/3+N	3/3+N
Frequency	(Hz)		50/60	50/60	50/60	50/60	50/60	50/60	50/60
Rated thermal current at	40°C	(A)	50	125	32	63	125	160	250
	50°C	(A)	50	112	32	63	112	160	250
	60°C	(A)	50	100	32	63	100	160	250
Power loss per pole (switch only)	(W)		1.6	8.5	0.65	2.5	6.5	5.2	6.5
Power loss per pole (fuse only)	(W)		5	7.5	7.5	7.5	7.5	15	32
Terminal capacity (Cu)	minimum	(mm <sup>2</sup> )	6	6	6	6	6	Cu-rail	Cu-rail
	maximum	(mm <sup>2</sup> )	50	50	50	50	50	30x6	2x40x6
Maximum torque on terminals	(Nm)		12	12	12	12	12	12	60
Rated operational voltage Ue	(V)		690	690	690	690	690	690	690
Rated insulation voltage Uimp	(V)		1000	1000	1000	1000	1000	1000	1000
Rated impulse withstand voltage (2000m) Uimp	(kV)		8	8	8	8	8	8	8
Impulse test voltage at sea level	(kV)		12.3	12.3	12.3	12.3	12.3	12.3	12.3
Rated operational current Ie <sup>(1)</sup>	Ue=400V	(A)	50	125	32	63	125	160	250
	AC21A up to 250A Ue=415V	(A)	50	125	32	63	125	160	250
	AC21B from 315A Ue=500V	(A)	50	125	32	63	125	160	250
	Ue=690V	(A)	50	125	32	63	125	160	250
Rated operational current Ie <sup>(1)</sup>	Ue=400V	(A)	50	125	32	63	125	160	250
	AC22A up to 250A Ue=415V	(A)	50	125	32	63	125	160	250
	AC22B from 315A Ue=500V	(A)	50	125	32	63	125	160	250
	Ue=690V	(A)	50	125	32	63	125	160	250
Rated operational current Ie <sup>(1)</sup>	Ue=400V	(A)	50	125	32	63	125	160	250
	AC23A up to 250A Ue=415V	(A)	50	125	32	63	125	160	250
	AC23B from 315A Ue=500V	(A)	50	100	32	63	125	160	250
	Ue=690V	(A)	50	80	32	50	50	125	250
Maximum rated operational power at rated duty AC23	Ue=400V	(kW)	25	69	16	30	69	88	135
	Ue=415V	(kW)	27	72	18	33	72	92	140
	Ue=500V	(kW)	36	86	23	44	86	110	175
	Ue=690V	(kW)	45	45	29	45	45	115	238
Rated making and breaking capacity at 500V AC23A	making	(A)	1000	1000	1000	1000	1000	1600	2500
	breaking	(A)	800	800	800	800	800	1280	2000
Rated conditional short-circuit current with back-up protection featuring the same current rating as the switch (kA rms)	400V	(kA)	50	100	50	50	100	100	100
	415V	(kA)	50	100	50	50	100	100	100
	500V	(kA)	50	100	50	50	100	100	100
	690V	(kA)	33	33	33	33	33	100	100
Rated capacity power at 400V	(kVAR)		24	60	16	30	60	77	120
Rated operational current DC23A	2P in series 110V	(A)	50	100	32	63	100	160	250
	2P in series 220V	(A)	50	63	32	63	-	100	160
	4P in series 220V	(A)	-	100	-	-	100	160	250
Operating torque	(Nm)		8	8	8	8	8	12	40
Force	(N)		80	80	80	80	80	120	333
Durability (number of operational cycles)	electrical		4000	3000	5000	3000	1500	1000	1000
	mechanical (min)		10000	10000	10000	10000	10000	10000	5000
Weight	3P	(kg)	1.20	1.20	1.27	1.27	1.27	3.05	10.60
	4P	(kg)	1.27	1.27	1.35	1.35	1.35	3.21	11.20

(1) NF 125A AC21..23B  
DIN 125A AC21..23B

Technical data

A

B

C

D

E

X



Fulos 2 DIN 2	Fulos 3S DIN 3	Fulos 4 DIN 4	Fulos 000 BS A2	Fulos 000 BS A3	Fulos 000 BS A3	Fulos 00 BS A4	Fulos 00 BS A4	Fulos 1 BS B1-B2	Fulos 1 BS B4	Fulos 2 BS B3-B4	Fulos 3S BS C1-C2	Fulos 3S BS C3	Fulos 4 BS D1
400	630	1000	32	63	100	100	200	200	400	400	630	800	1250
400	630	1000	32	63	100	100	200	200	400	400	630	800	1250
3/3+N	3/3+N	3/3+N	3/3+N	3/3+N	3/3+N	3/3+N	3/3+N	3/3+N	3/3+N	3/3+N	3/3+N	3/3+N	3/3+N
50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
400	630	1000	32	63	100	100	200	200	400	400	630	800	1250
400	567	900	32	63	100	100	200	200	400	400	567	720	1125
400	504	800	32	63	100	100	200	200	400	400	504	640	1000
16			2.5	2.5	6.5	2	4.8	3.6	15	15	-	-	-
45	50	125	7.5	7.5	7.5	16	32	32	45	45	50	75	195
Cu-rail	Cu-rail	Cu-rail	6	6	6	Cu-rail	Cu-rail	Cu-rail	Cu-rail	Cu-rail	Cu-rail	Cu-rail	Cu-rail
2x40x6	2x40x6	2x50x10	50	50	50	30x6	30x6	2x40x6	2x40x6	2x40x6	2x40x6	2x40x6	2x60x10
60	35	35	12	12	12	12	12	60	60	60	35	35	35
690	1000	690	690	690	690	690	690	690	690	690	1000	1000	690
1000	1500	1000	1000	1000	1000	1000	1000	1000	1000	1000	1500	1500	1000
8	8	8	8	8	8	8	8	8	8	8	8	8	8
12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
400	630	1000	32	63	100	100	200	200	400	400	630	800	1250
400	630	1000	32	63	100	100	200	200	400	400	630	800	1250
400	630	1000	32	63	100	100	200	200	400	400	630	800	1250
400	630	1000	32	63	100	100	200	200	400	400	630	800	1250
400	630	1000	32	63	100	100	200	200	400	400	630	800	1250
400	630	1000	32	63	100	100	200	200	400	400	630	800	1250
400	630	1000	32	63	100	100	200	200	400	400	630	800	1250
400	630	1000	32	63	100	100	200	200	400	400	630	800	1250
400	630	1000	32	63	100	100	200	200	400	400	630	800	1250
400	630	1000	32	63	100	100	200	200	400	400	630	800	1250
300	630	1000	32	50	80	100	200	200	300	300	630	800	1250
218	-	-	16	30	50	50	88	100	218	218	330	330	-
230	-	-	18	33	55	55	92	110	230	230	-	-	-
295	-	-	23	44	72	72	175	140	295	295	-	-	-
290	-	-	29	45	45	90	190	190	290	290	-	-	-
4000	6300	10000	1000	1000	1000	1600	2400	3200	4000	4000	6300	8000	12500
3200	5040	8000	800	800	800	1000	2000	2800	3200	3200	5040	6400	10000
100	50	100	50	50	65	100	100	100	100	100	50	50	100
100	50	100	50	50	65	100	100	100	100	100	50	50	100
100	-	-	50	50	-	100	100	100	100	100	-	-	-
100	-	-	50	33	-	100	80	100	100	100	-	-	-
193	300	475	16	30	48	48	97	97	193	193	300	380	600
400	500	1000	32	63	100	100	200	200	400	400	500	500	1000
-	-	1000	32	63	-	63	160	160	-	-	-	-	1000
400	-	-	-	-	100	100	200	200	400	400	-	-	-
40	45	80	8	8	8	12	12	40	40	40	45	45	80
333	160	174	80	80	80	120	120	333	333	333	160	160	174
700	1000	1000	3000	3000	3000	1500	1000	1000	700	700	1000	1000	1000
5000	4000	4000	15000	15000	15000	10000	10000	5000	5000	5000	4000	4000	4000
10.60	13.00	33.00	1.22	1.22	1.27	3.11	3.11	11.20	11.20	11.20	13.00	13.00	33.00
11.20	14.50	42.00	1.29	1.29	1.35	3.27	3.27	11.80	11.80	11.80	14.50	14.50	42.00

A

B

C

D

E

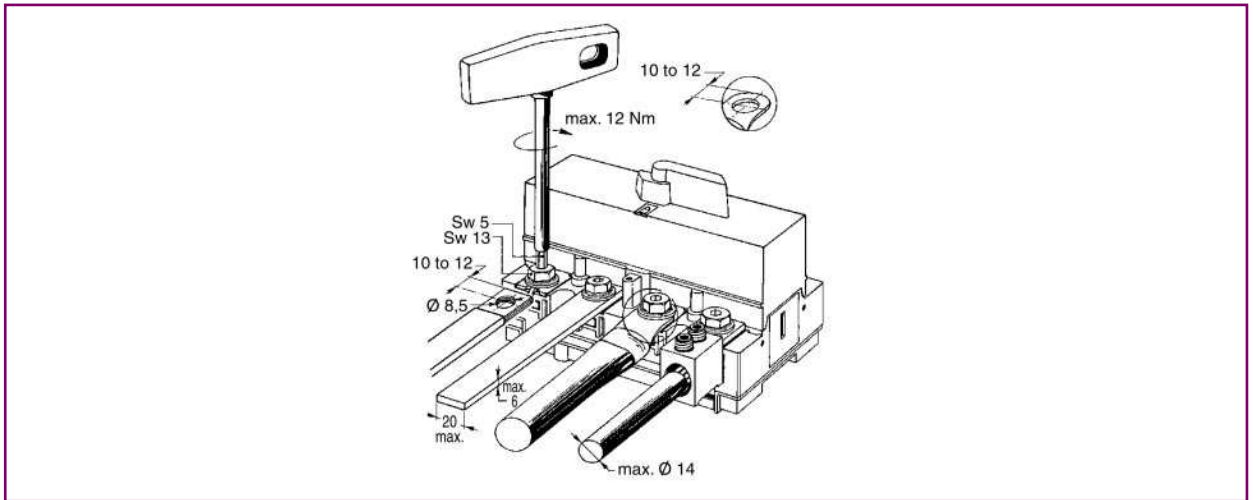
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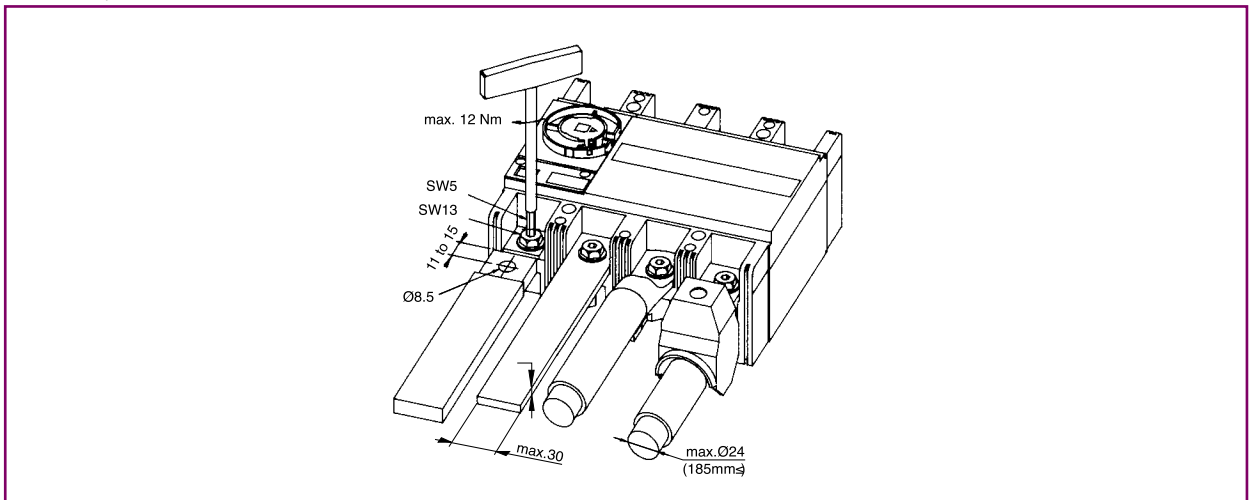


Connection possibilities

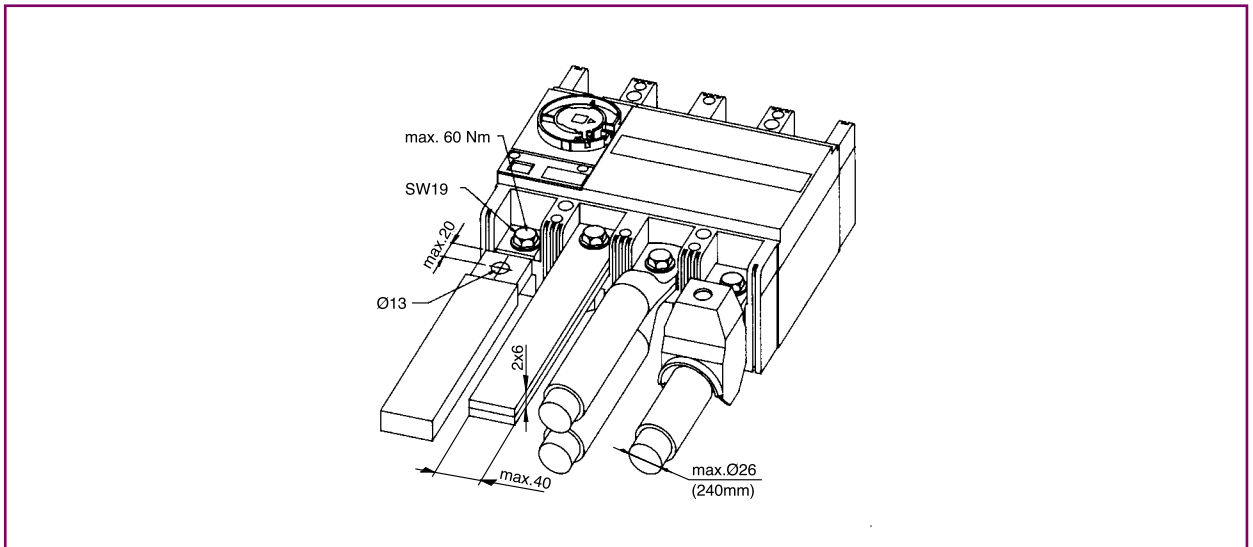
Dilos 2



Dilos 3 / Fulos 00



Dilos 4 / Fulos 1 / Fulos 2



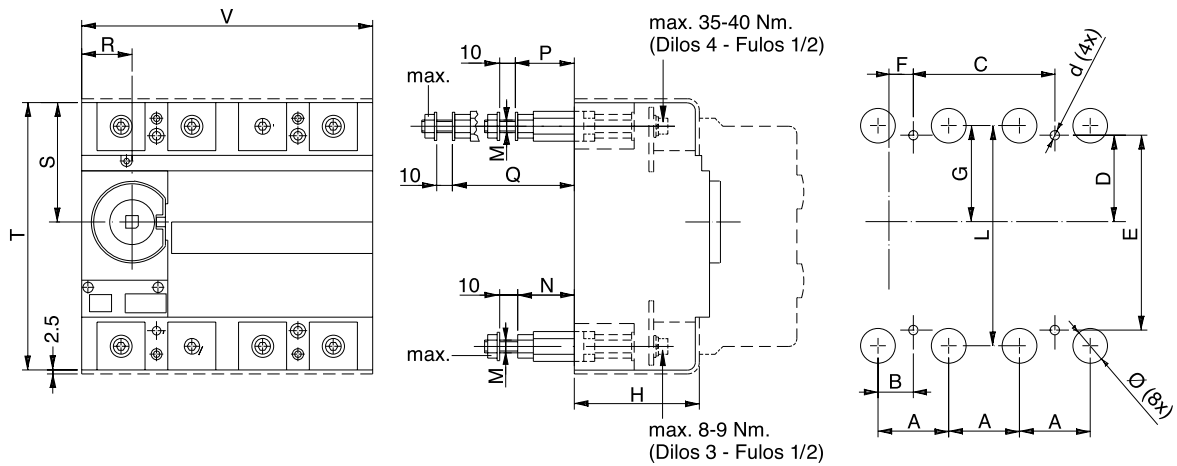






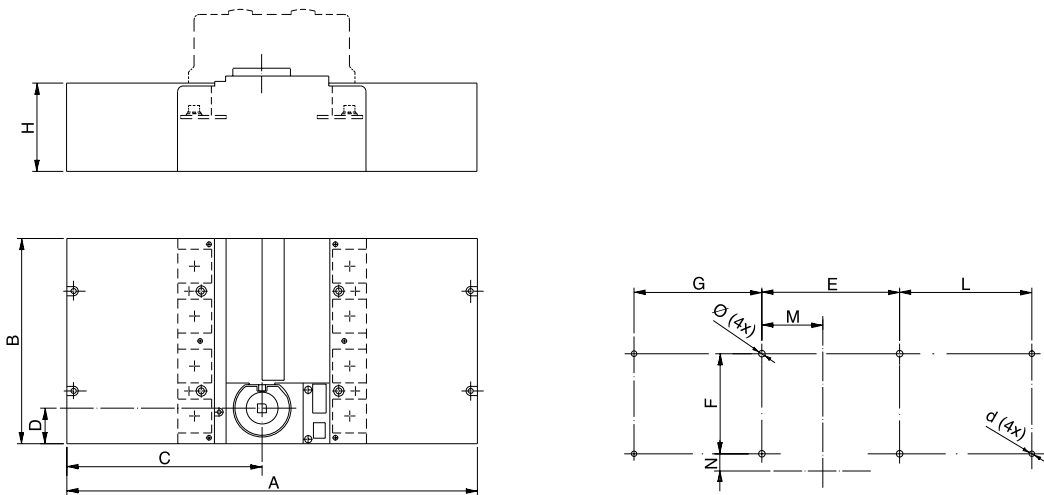
Dimensions

Rear terminals - Dilos 3 / 4 - Fulos 00 / 1 / 2



Dimensions		A	B	C	D	E	F	G	H	L	M	N	Ø	d	MAX.	P	Q	R	S	T	V
Dilos 3 - Fulos 00		45	22.5	90	55	124	15.5	61	80	140	M8	36	22	6	6Nm	-	-	32	76	170	185
Dilos 4 - Fulos 1 / 2		65	32.5	130	68.5	220	30	63.5	110	210	M14	-	30	7	19Nm	51	98	35	85	253	260

Terminal covers - Dilos 3 / 4 - Fulos 00 / 1 / 2



Dimensions		A	B	C	D	E	F	G	H	L	M	N	Ø	d
Dilos 3 - Fulos 00 Long		370	185	176	32	124	90	115	80	119	55	15.5	6	5
Dilos 4 - Fulos 1 / 2 Long		433	260	175	35	220	130	100.5	109	100.5	68.5	30	7	5
Dilos 3 - Fulos 00 Short		250	185	116	32	124	90	55	80	59	65	15.5	6	5
Dilos 4 - Fulos 1 / 2 Short		363	260	140	35	220	130	73	109	65.5	68.5	30	7	5

Dimensions

A

B

C

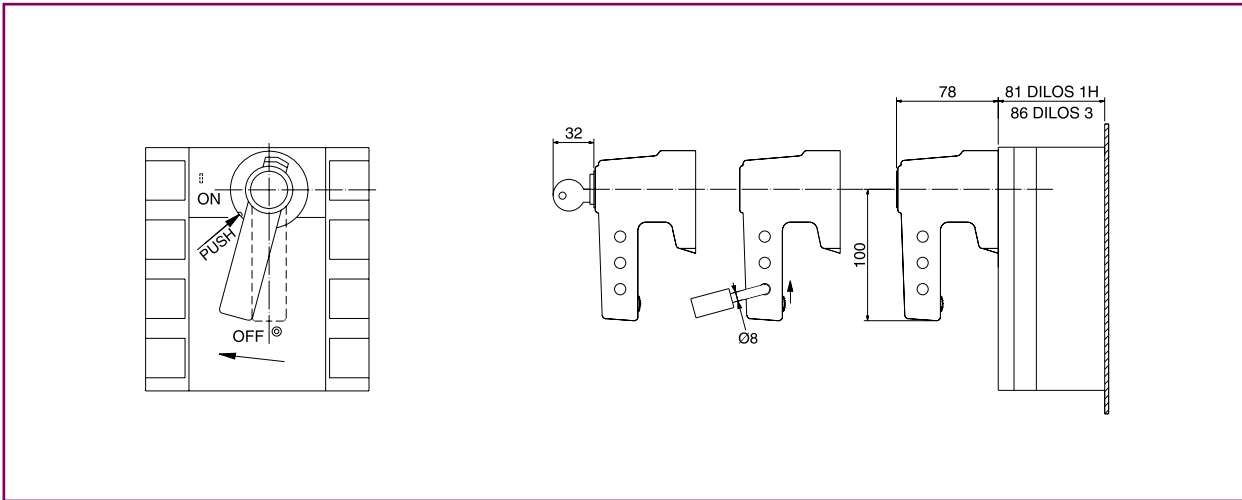
D

E

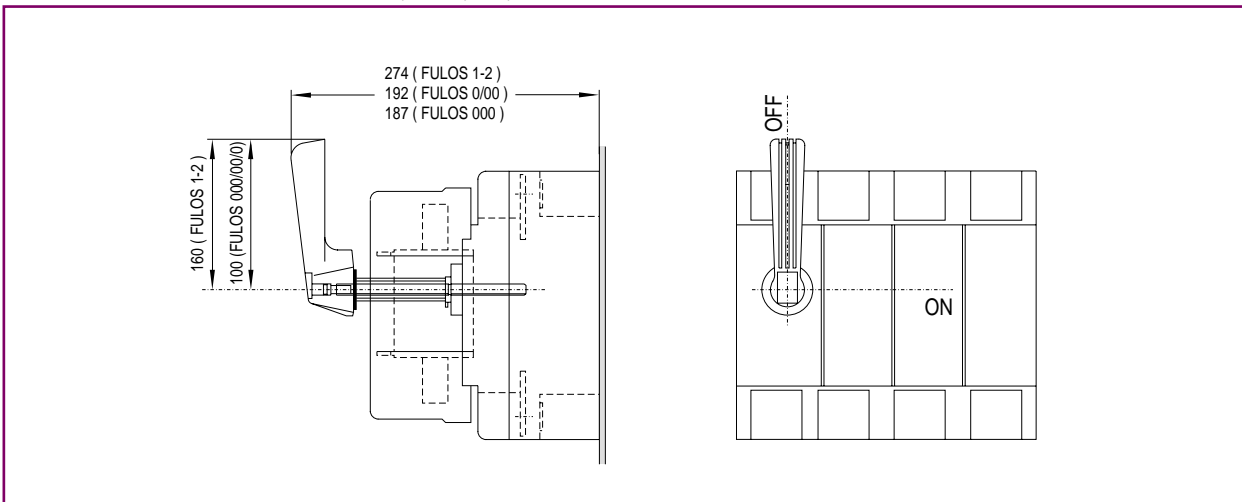
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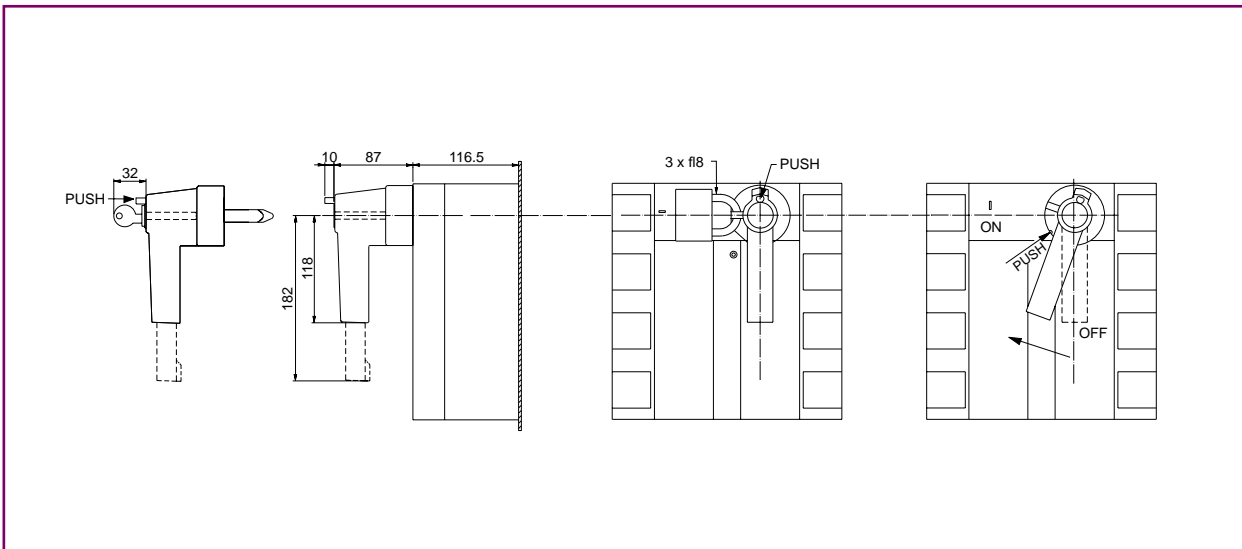
**Direct handles for Dilos 1H and Dilos 3**



**Direct handles for Fulos 000 / 00 / 1 / 2**



**Direct handles for Dilos 4**



A

B

C

D

E

X

Dimensions

Handles for cover or hinged door - Dilos 1H / 3 - Fulos 000 / 00

Dimensions				
	L		C	D
	Min.	Max.		
Dilos 1H	137	396	89	68
Fulos 000	148	396	89	68
Dilos 3	142	401	94	73
Fulos 00	160	401	95	73

Direct handles for Dilos 4 - Fulos 1 / 2

Dimensions				
	L		C	D
	Min.	Max.		
Dilos 4	186	458	98	93.5
Fulos 1 / 2	232	458	98	93.5

Dimensions

A

B

C

D

E

X



**Handles for inner door (reduced depth) - Dilos 1H / 3 - Fulos 000 / 00**

Dimensions				
	Dilos 1H	Dilos 3	Fulos 000	Fulos 00
b min	20	20	60	66
b max	290	290	290	290

**Handles for inner door (reduced depth) - Dilos 4 - Fulos 1 / 2**

Dimensions			
	Dilos 4	Fulos 1	Fulos 2
b min	59	94	94
b max	330	330	330

Dilos/Fulos

A

B

C

D

E

X