

100 to 1200 A

➔ Function

SIRCO non fusible disconnect switches are heavy duty switches that break and make power circuits on and off load and provide safety isolation.

These switches are extremely durable and are tested and approved for use in the most demanding applications.

➔ General characteristics

- Fully visualised disconnection.
- High thermal and dynamic withstand.
- Severe utilisation categories.
- High electrical and mechanical endurance.

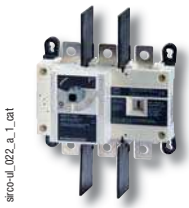
➔ Conformity to standards

- UL98, Guide WHTY, file E201138
- CSA Pending 22.2#4, Class 4652-04, file 703166
- IEC 60947-3

➔ Customized solutions (please consult us):

- Visible contacts from 30A to 400A.
- NFPA79 on non fusible disconnects.

➤ **References**




Rating (A)	No. of poles	Switch body	Direct handle	External handle	Shaft for external handle	Auxiliary contacts	Terminal protection screens	Terminal Lugs kits	
100 A	3 P	2700 3011	Black 2699 5052	S2 type Black 1, 3R, 12 142F 2111 ⁽¹⁾ Red/Yellow 1, 3R, 12 142G 2111 ⁽¹⁾ Black 4, 4X 142D 2111 ⁽¹⁾ Red/Yellow 4, 4X 142E 2111 ⁽¹⁾	200 mm 7.9 inches 1400 1020	1st contact NO/NC 2799 0021 2nd contact NO/NC 2799 0022	3 P 2798 3021 ⁽²⁾ 3 P 2798 8021 ⁽³⁾ 4 P 2798 4021 ⁽⁴⁾	3 P 3954 3020 ⁽⁴⁾ 4 P 3954 4020 ⁽⁴⁾	
	4 P	2700 4011							
200 A	3 P	2700 3021							
	4 P	2700 4021							
400 A	3 P	2700 3041							
	4 P	2700 4041							
600 A	3 P	2700 3060		Black 3799 6012	S3 type Black 4, 4X 143D 3111 ⁽¹⁾ Red/Yellow 4, 4X 143E 3111 ⁽¹⁾	200 mm 7.9 inches 1401 1520	Contact holder 3999 0720 ⁽⁵⁾ Contact NO 3999 0701 Contact NC 3999 0702	3 P 2798 3060 ⁽⁴⁾ 4 P 2798 4060 ⁽⁴⁾	3 P 3954 3060 4 P 3954 4060
	4 P	2700 4060							
800 A	3 P	2700 3080							
	4 P	2700 4080							
1000 A	3 P	2700 3100							
	4 P	2700 4100							
1200 A	3 P	2700 3120							
	4 P	2700 4120							

- (1) Defeatable handle.
 (2) Top.
 (3) Bottom.
 (4) Top or bottom.
 (5) Max. 4 ACs.


➤ **Accessories**

Direct handle



access_135_a_2_catt

H type handle



access_114_a_1_catt

B type handle

Rating (A)	Colour	Handle	Reference
100 ... 400	Black	B type	2699 5052
600 ... 1200	Black	H type	3799 6012

External handle



Use

The interlocking function of the front external handle prevents the user from opening the door of the enclosure when the switch is in the "ON" position or when the switch is padlocked in the "OFF" position (S1, S2, S3 and S4 type handles only).

Opening the door when the switch is in the "ON" position is possible by defeating the interlocking function with the use of a tool (authorized persons only). The interlocking function is restored when the door is re-closed.

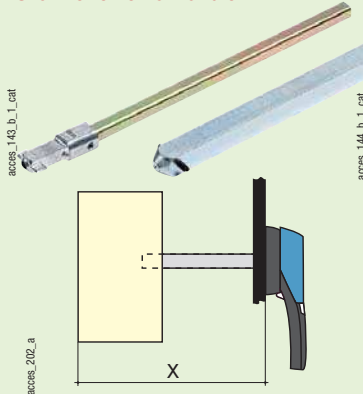
Front handle I - 0

Rating (A)	Handle	Colour	Nema type	Reference
100 ... 400	S2 type	Black	1, 3R, 12	142F 2111
100 ... 400	S2 type	Red/Yellow	1, 3R, 12	142G 2111
100 ... 400	S2 type	Black	4, 4X	142D 2111
100 ... 400	S2 type	Red/Yellow	4, 4X	142E 2111
600 ... 1200	S3 type	Black	4, 4X	143D 3111
600 ... 1200	S3 type	Red/Yellow	4, 4X	143E 3111
600 ... 1200	S4 type	Black	4, 4X	144D 3111
600 ... 1200	S4 type	Red/Yellow	4, 4X	144E 3111

Front handle heavy duty I - 0 with metallic lever

Rating (A)	Handle	Colour	Nema type	Reference
100 ... 400	S2 type	Black	4, 4X	142D 2911
100 ... 400	S2 type	Red/Yellow	4, 4X	142E 2911
600 ... 1200	S3 type	Black	4, 4X	143D 3911
600 ... 1200	S3 type	Red/Yellow	4, 4X	143E 3911
600 ... 1200	S4 type	Black	4, 4X	144D 3911
600 ... 1200	S4 type	Red/Yellow	4, 4X	144E 3911

Shaft for external handle



Use

Standard lengths:
 - 7.9 in / 200 mm,
 - 12.6 in / 320 mm,
 - 15.7 in / 400 mm.

Other lengths: please consult us.

Rating (A)	Dimension X (in)	Dimension X (mm)	Handle	Length (inches)	Length (mm)	Reference
100 ... 400	5.31 ... 10.43	135 ... 265	S2 type	7.9	200	1400 1020
100 ... 400	5.31 ... 15.16	135 ... 385	S2 type	12.6	320	1400 1032
100 ... 400	5.31 ... 18.31	135 ... 465	S2 type	15.7	400	1400 1040
600 ... 1200	8.70 ... 13.50	221 ... 343	S3, S4 type	7.9	200	1401 1520
600 ... 1200	8.70 ... 18.23	221 ... 463	S3, S4 type	12.6	320	1401 1532
600 ... 1200	8.70 ... 21.38	221 ... 543	S3, S4 type	15.7	400	1401 1540

Alternative colour S type handle cover



Use

For single lever handles type S1, S2, S3 and double lever handle, type S4.
 Other colours: please consult us.

Handle colour	Pack qty	Handle	Reference
Light grey	50	S2, S3 type	1401 0001
Dark grey	50	S2, S3 type	1401 0011
Light grey	50	S4 type	1401 0031
Dark grey	50	S4 type	1401 0041

S type handle raiser



Use

Enables S type handles to be fitted in place of existing older style Socomec handles. Adapter can also be utilised as a spacer to increase the distance between the panel door and the handle lever.

Dimensions

Adds 12 mm to the depth.

Handle colour	Pack qty	Nema type	Reference
Black	10	1, 3R, 12	1493 0000

Shaft guide for external handle



Use

This accessory makes shaft introduction easier with up to 15 mm misalignment. Required for a shaft length over 400 mm.

Description	Reference
Shaft guide	1429 0000

Auxiliary Contacts

Use

Pre-break and signalling of positions 0 and I.

Electrical characteristics

A300 for 100 to 400 A.
 A600 for 600 to 1200 A.

NO/NC contact for 100 ... 400 A

Rating (A)	No. of AC	Reference
100 ... 400	1 st	2799 0021
100 ... 400	2 nd	2799 0022

Low level NO/NC contact for 100 ... 400 A

Rating (A)	No. of AC	Reference
100 ... 400	1 st	2799 0121
100 ... 400	2 nd	2699 0122

Auxiliary contact holder for 600 ... 1200 A

Rating (A)	Type	Reference
600 ... 1200	Holder	3999 0720 ⁽¹⁾
600 ... 1200	NO	3999 0701
600 ... 1200	NC	3999 0702

(1) Please order the holder.

Terminal screens

Use

Top or bottom protection against direct contact with terminals or connection parts.



Rating (A)	No. of poles	Position	Reference
100 ... 200	3 P	top	2798 3021
100 ... 200	3 P	bottom	2798 8021
100 ... 200	4 P	top / bottom	2798 4021
400	3 P	top	2798 3041
400	3 P	bottom	2798 8041
400	4 P	top / bottom	2798 4041
600	3 P	bottom	2798 3060 ⁽¹⁾
600	4 P	bottom	2798 4060 ⁽¹⁾
800 ... 1200	3 P	bottom	2798 3120 ⁽¹⁾
800 ... 1200	4 P	bottom	2798 4120 ⁽¹⁾

(1) Load side screen, the line side is included with the switch.

Terminal lugs

Use

Connection of bare copper cables onto the lugs (without lugs).



Rating max (A)	Wires range	No wires per lug	Lugs per kit	Wires	Reference
100 ... 200	6 - 300MCM	1	2	Cu / Al	3954 2020
100 ... 200	6 - 300MCM	1	3	Cu / Al	3954 3020
100 ... 200	6 - 300MCM	1	4	Cu / Al	3954 4020
400	2 - 600MCM	1	2	Cu / Al	3954 2040
400	2 - 600MCM	1	3	Cu / Al	3954 3040
400	2 - 600MCM	1	4	Cu / Al	3954 4040
400	2x (#6 - 350MCM)	2	2	Cu / Al	3954 2041
400	2x (#6 - 350MCM)	2	3	Cu / Al	3954 3041
400	2x (#6 - 350MCM)	2	4	Cu / Al	3954 4041
600	2x (#2 - 600MCM)	1	2	Cu / Al	3954 2060
600	2x (#2 - 600MCM)	2	3	Cu / Al	3954 3060
600	2x (#2 - 600MCM)	2	4	Cu / Al	3954 4060
800 ... 1200	4x (#2 - 600MCM)	2	6	Cu / Al	3954 6120
800 ... 1200	4x (#2 - 600MCM)	2	8	Cu / Al	3954 8120

➤ **SIRCO UL98 - Characteristics according to UL98/CSA22.2#4**

100 to 1200 A

General use rating (A)	100 A	200 A	400 A	600 A	800 A	1000 A	1200 A
Short circuit rating at 600 VAC (kA)	200	200	200	200	100	100	100
Type of fuse	J	J	J	J	L	L	L
Max. fuse rating (A)	100	200	400	600	800	1000	1200

Max. motor hp / FLA 3 ph motor max.

220-240 VAC	30 / 80	75 / 196	125 / 312	200 / 480	200 / 480	200 / 480	200 / 480
440-480 VAC	75 / 96	150 / 180	250 / 302	400 / 477	500 / 590	500 / 590	500 / 590
600 VAC	100 / 99	200 / 192	350 / 336	350 / 336	500 / 472	500 / 472	500 / 472

Max. motor hp / DC FLA motor max.

125 VDC ⁽¹⁾	10 / 76	15 / 112	20 / 148	20 / 148			
250 VDC ⁽²⁾	15 / 55	15 / 55	50 / 173	50 / 173			

Connection terminals

Min. connection section / AWG	#6	#6	#2	2x #2	4x #2	4x #2	4x #2
Max. connection section / AWG	300MCM	300MCM	600MCM	2x 600MCM	4x 600MCM	4x 600MCM	4x 600MCM

Mechanical characteristics

Endurance (number of operating cycles)	10000	8000	6000	6000	3500	3500	3500
Operating torque (lbs.in/Nm)	88.5/10	88.5/10	128.3/14.5	327.5/37	442.5/50	442.5/50	442.5/50

Auxiliary contacts

Electrical characteristics	A300	A300	A300	A600	A600	A600	A600
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(1) 2 pole in series.

(2) 3 pole in series.

➤ **Characteristics according to IEC 60947-3**

Thermal current I_{th} (40°C)	100 A	200 A	400 A	600 A	800 A	1000 A	1200 A
Rated insulation voltage U_i (V)	1000	1000	1000	1000	1000	1000	1000
Rated impulse withstand voltage U_{imp} (kV)	12	12	12	12	12	12	12

Rated operational currents I_o (A)

Rated voltage	Load duty category	A ⁽¹⁾	A ⁽¹⁾	A ⁽¹⁾	A ⁽¹⁾	A ⁽¹⁾	A ⁽¹⁾
400 VAC	AC-22 A	100	200	400	630	800	1000
400 VAC	AC-23 A	100	200	400	630	800	1000
690 VAC	AC-22 A	100	200	400	500	630	630
690 VAC	AC-23 A	100	200	315	200	400	400

Connection

Min. Cu cable cross section (mm ²)	35	70	185	2 x 150	2 x 185	2 x 240	
Min. Cu busbar section (mm ²)				2 x 30 x 5	2 x 40 x 5	2 x 50 x 5	2 x 60 x 5

Operational power in AC-23 (kW)

At 400 VAC without prebreaking AC in AC23 (kW) ⁽²⁾⁽³⁾	51	100	220	355	450	560	560
At 500 VAC without prebreaking AC in AC23 (kW) ⁽²⁾⁽³⁾	63	140	280	450	560	560	560
At 690 VAC without prebreaking AC in AC23 (kW) ⁽²⁾⁽³⁾	90	185	185	185	400	400	400

Overload capacity (U_o 415 VAC)

Rated short-circuit making capacity I_{cm} (kA peak) ⁽⁴⁾	17,6	32	48	48	75	48	75
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(1) Category with index A = frequent operation.

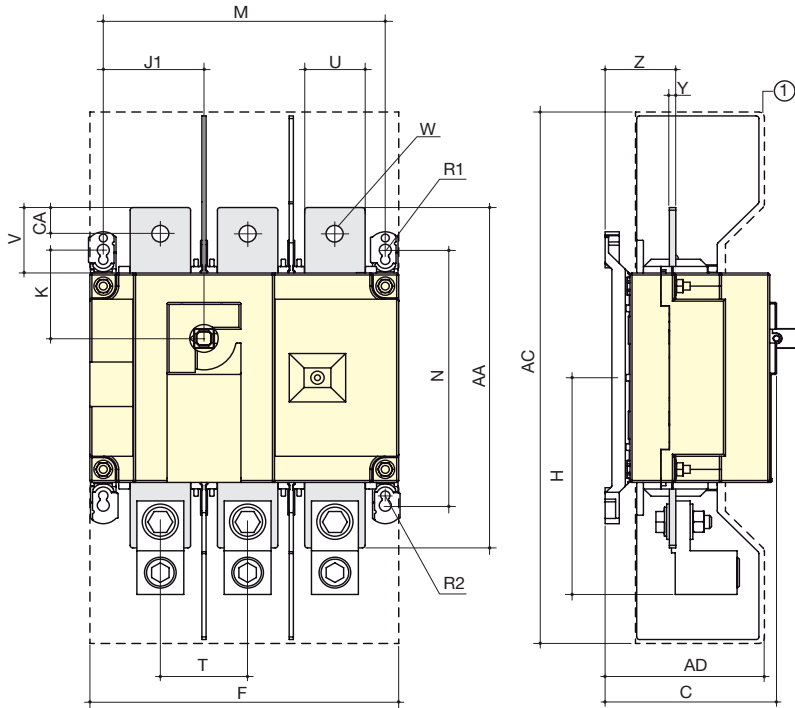
(2) A/B: Category with index A = frequent operation - Category with index B = infrequent operation.

(3) The power value is given for information only, the current values vary from one manufacturer to another.

(4) For a rated operating voltage $U_o = 400$ VAC.

➔ **Dimensions (in / mm)**

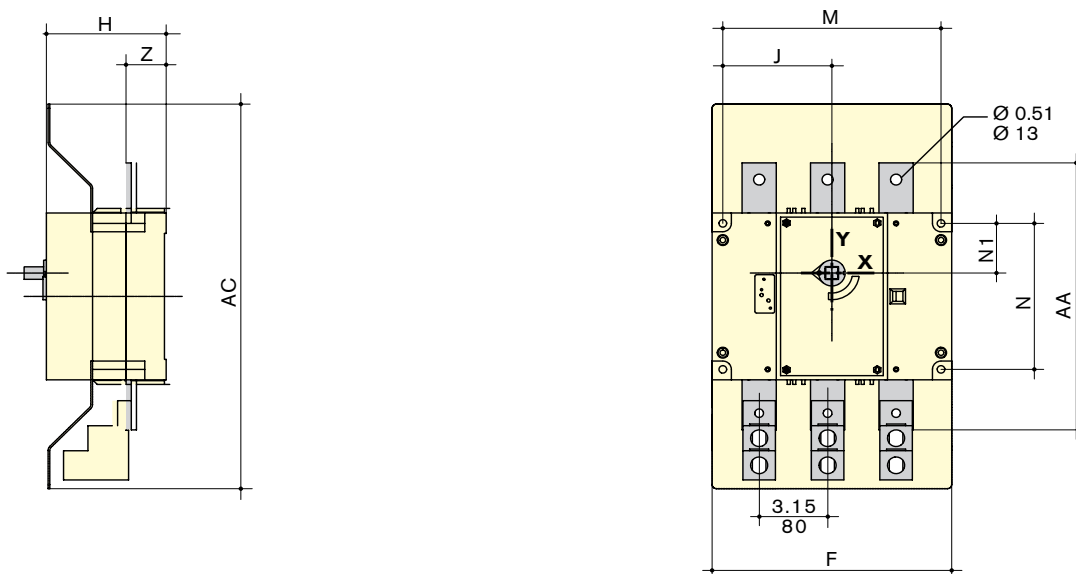
100 to 400 A



1. Terminal shrouds

Rating (A)	Unit	Overall dimensions		Terminal shrouds		Switch body					Switch mounting					Connection							
		C	AC	AD	F 3p.	F 4p.	H	J1 3p.	J1 4p.	K	M 3p.	M 4p.	N	R1	R2	T	U	V	W	Y	Z	AA	AC
100	in	3.72	10.1	3.05	7.09	9.06	4.22	2.17	4.13	1.8	6.3	8.7	5.31	0.35	0.27	1.97	0.98	1.18	0.43	0.14	1.35	6.3	0.6
	mm	94.6	256	77.5	180	230	107	55	105	45.6	160	210	135	9	7	50	25	30	11	3.5	34.4	160	15
200	in	3.72	10.1	3.05	7.09	9.06	4.22	2.17	4.13	1.8	6.3	8.27	5.31	0.35	0.27	1.97	0.98	1.18	0.43	0.14	1.35	6.3	0.6
	mm	94.6	256	77.5	180	230	107	55	105	45.6	160	210	135	9	7	50	25	30	11	3.5	34.4	160	15
400	in	4.92	16	4.15	9.05	11.4	6.53	2.95	5.31	2.65	8.26	10.6	7.67	0.35	0.27	2.56	1.77	1.97	0.43	0.2	2.08	10.2	0.8
	mm	128	406	115	230	290	166	75	135	67.5	210	270	195	9	7	65	45	50	13	5	53	260	20

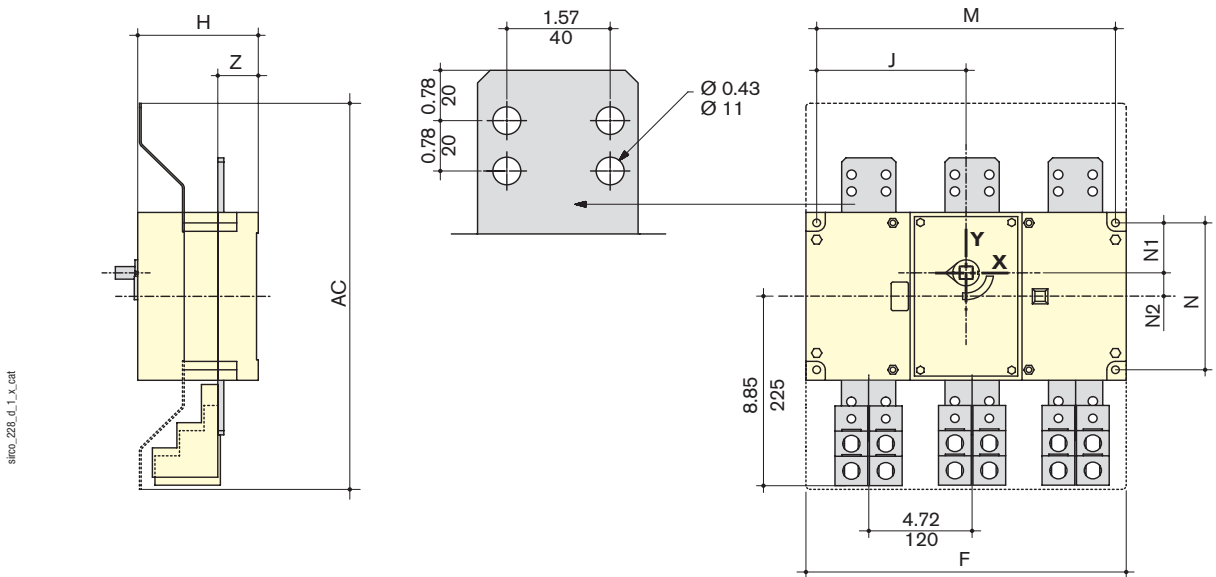
600 A



Rating (A)	Unit	Terminal shrouds		Switch body			Switch mounting				Connection		
		AC	F 3p.	F 4p.	H	J 3p.	J 4p.	M 3p.	M 4p.	N	N1	AA	Z
600	in	18.12	11	14.17	5.5	5	6.59	10.03	13.19	6.88	2.34	12.6	1.85
	mm	460	280	360	140	127.5	167.5	255	335	175	59.5	320	47

➔ SIRCO UL98 - Dimensions (continued)

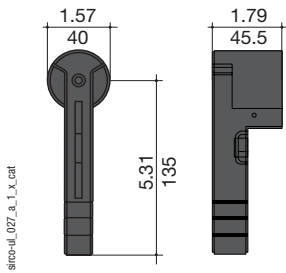
800 to 1200 A



Rating (A)	Unit	Terminal shrouds AC	Switch body					Switch mounting				Connection	
			F 3p.	F 4p.	H	J 3p.	J 4p.	M 3p.	M 4p.	N	N1	AA	Z
800	in	18.12	14.64	19.37	5.5	6.83	9.19	13.66	18.38	6.88	2.34	1.10	1.85
	mm	460	372	492	140	173.5	233.5	347	467	175	59.5	28	47
1 000	in	18.12	14.64	19.37	5.5	6.83	9.19	13.66	18.38	6.88	2.34	1.10	1.85
	mm	460	372	492	140	173.5	233.5	347	467	175	59.5	28	47
1 200	in	18.12	14.64	19.37	5.5	6.83	9.19	13.66	18.38	6.88	2.34	1.10	1.85
	mm	460	372	492	140	173.5	233.5	347	467	175	59.5	330	47

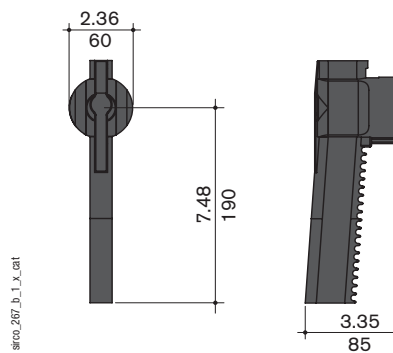
100 to 400 A

Front direct handle



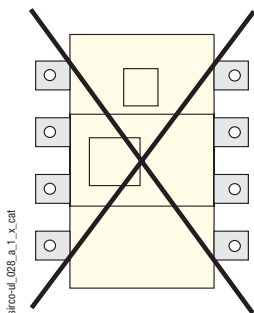
600 to 1200 A

Front direct handle



➔ Mounting orientation

3/4 pole



➤ External handles dimensions (in / mm)

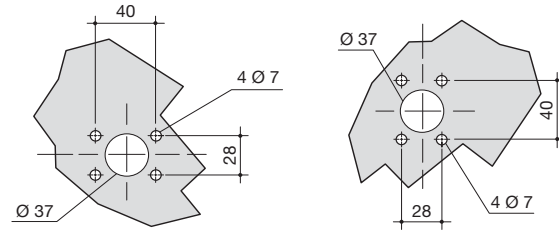
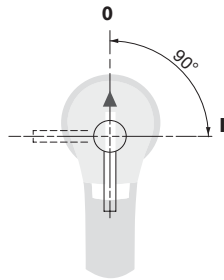
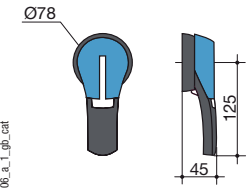
100 to 400 A

Handle type

Front operation
 Direction of operation

Door drilling

S2 type



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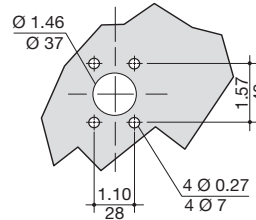
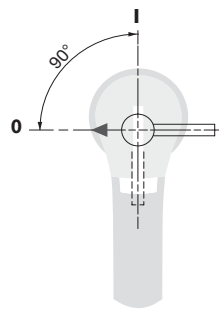
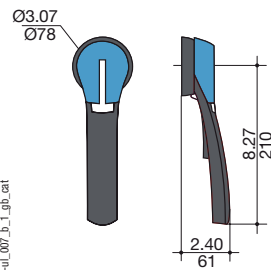
600 to 1200 A

Handle type

Front operation
 Direction of operation

Door drilling

S3 type



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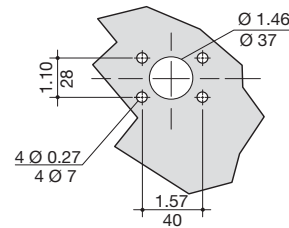
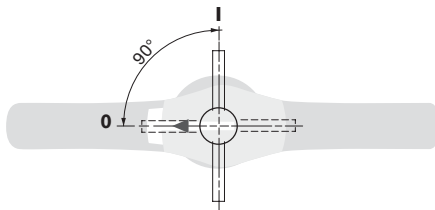
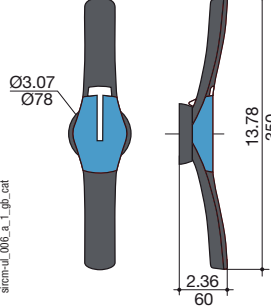
600 to 1200 A

Handle type

Front operation
 Direction of operation

Door drilling

S4 type



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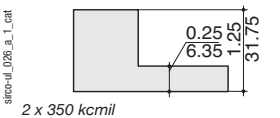
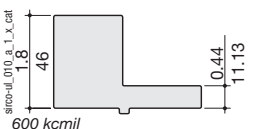
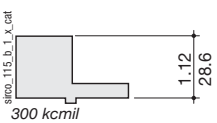
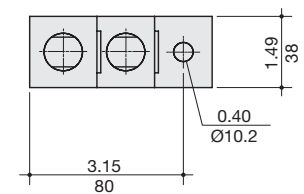
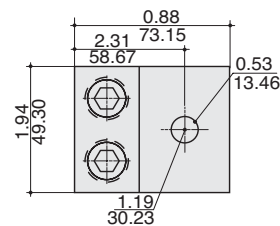
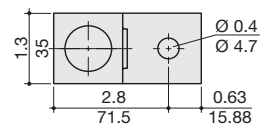
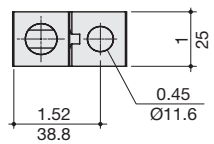
➤ Terminal lugs (in / mm)

100 to 200 A

400 A

400 A

600 to 1200 A



sirco_115_b_1_x_cat

sirco-ul_010_b_1_x_cat

sirco-ul_008_a_1_cat

sirco_116_b_1_x_cat