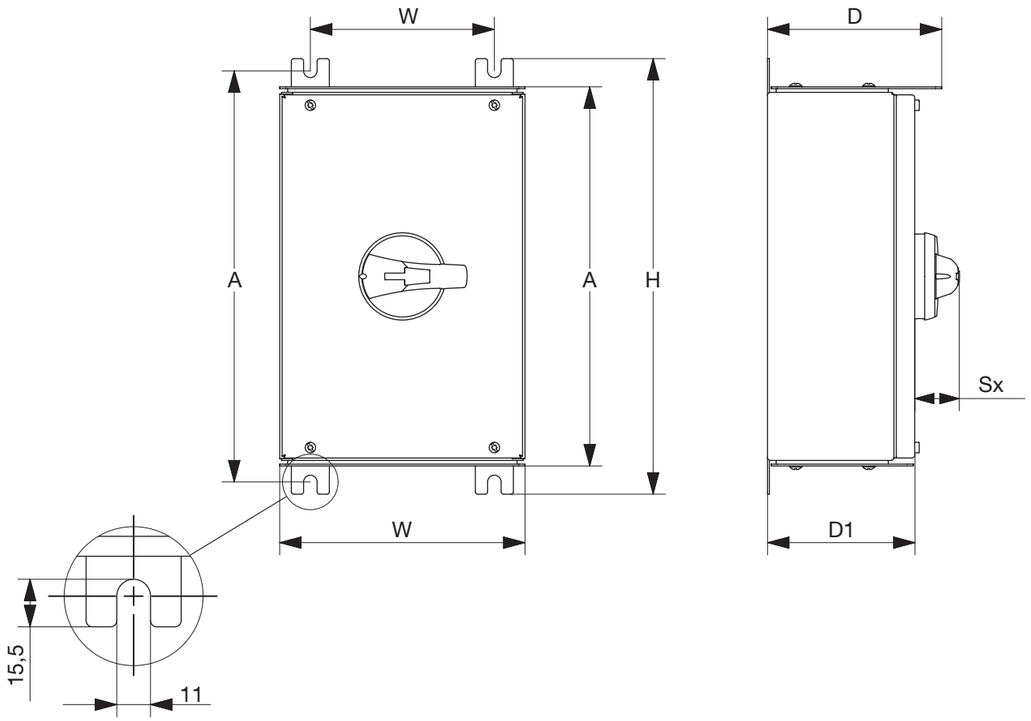
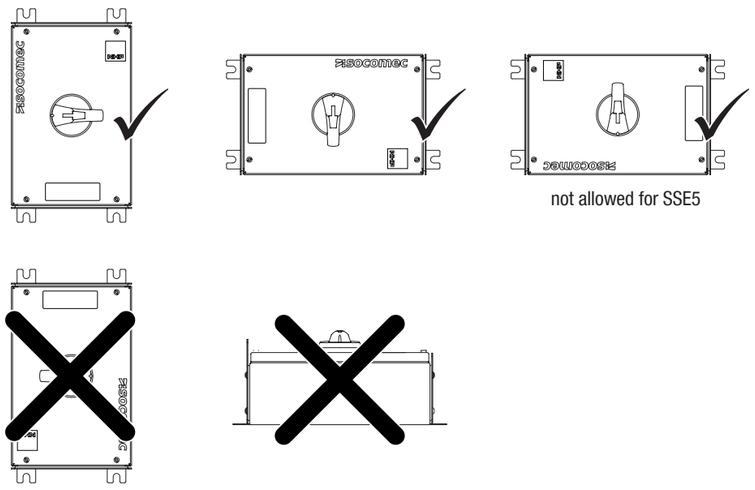
SSE1 / SSE3 / SSE5

Dimensions: mm



SIZE	A	A1	B	D	D1	H	Sx	W
SSE1	185	159	100	142	120	205	37	150
SSE3	335	309	150	142	120	355	37	200
SSE5	535	509	300	222	200	555	45	350

IP65 Configuration



ENCLOSED LOAD BREAK SWITCH

IP65 316 STAINLESS STEEL ENCLOSURE SIRCO M - SIRCO

551090A

SSE1 25 A - 80 A

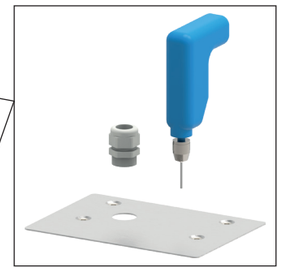
SSE3 100 A

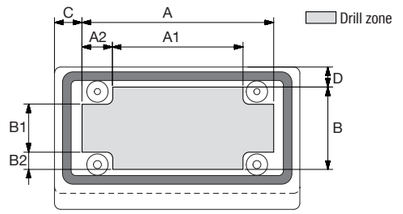
SSE5 160 A - 250 A

SSE 1-3-5 : 1.5 Nm - Torx 2

SSE 1-3-5 : 1.5 Nm - PH2

Do not drill the back of the enclosure.
Please use suitable glands with IP rating equals or exceeds IP65.
Clean closing plate gasket before asssembling enclosure



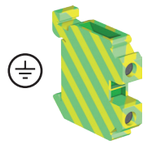


Dimensions: mm

SIZE	A	A1	A2	B	B1	B2	C	D
SSE1	106	56	25	67	39	14	22	30
SSE3	156	106	25	67	39	14	22	30
SSE5	306	-	-	119	-	-	22	30

25 A - 100 A

EARTH TERMINAL INCLUDED

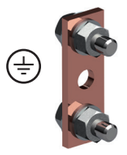


ACCESSORY NEUTRAL TERMINAL (OPTIONAL)

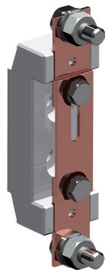
		Torque min. (Nm)	Torque max. (Nm)	Cu Section min. (mm)	Cu Section max. (mm)
⏚	20-40 A	1.5	1.8	0.5	10
	63-80 A	1.5	1.8	2.5	25
	100 A	3.2	3.7	10	35
N	20-40 A	3		1.5	16
	63-80 A	4.5		2.5	35
	100 A	5		10	70

160 A - 250 A

EARTH TERMINAL INCLUDED



ACCESSORY NEUTRAL LINK (OPTIONAL)



	Torque min. (Nm)	Torque max. (Nm)
M6	4.5	5.4
M8	8.3	13
M10	20	26
M12	40	45

SIRCO M characteristics according to IEC 60947-3

25 A to 100 A

Thermal current I_{th} (40 °C)		**25 A**	**40 A**	**63 A**	**80 A**	**100 A**
Frame size		**M1**	**M1**	**M2**	**M2**	**M3**
Rated insulation voltage U_i (V)		800	800	800	800	800
Rated impulse withstand voltage U_{imp} (kV)		8	8	8	8	8
Rated operational currents I_e (A)						
Rated voltage	**Utilisation category**	**A/B[1]**	**A/B[1]**	**A/B[1]**	**A/B[1]**	**A/B[1]**
415 VAC	AC-20 A / AC-20 B	25/25	40/40	63/63	80/80	100/100
415 VAC	AC-21 A / AC-21 B	25/25	40/40	63/63	80/80	100/100
415 VAC	AC-22 A / AC-22 B	25/25	40/40	63/63	80/80	100/100
415 VAC	AC-23 A / AC-23 B	25/25	40/40	63/63	80/80	100/100
500 VAC	AC-20 A / AC-20 B	25/25	40/40	63/63	80/80	100/100
500 VAC	AC-21 A / AC-21 B	25/25	40/40	63/63	80/80	100/100
500 VAC	AC-22 A / AC-22 B	25/25	40/40	63/63	80/80	100/100
500 VAC	AC-23 A / AC-23 B	25/25	25/25	63/63	63/63	80/80
690 VAC	AC-20 A / AC-20 B	25/25	40/40	63/63	80/80	100/100
690 VAC	AC-21 A / AC-21 B	25/25	40/40	63/63	80/80	100/100
690 VAC	AC-22 A / AC-22 B	25/25	32/40	40/63	63/80	80/100
690 VAC	AC-23 A / AC-23 B	25/25	25/25	40/40	40/40	63/63
110 VDC	DC-20 A / DC-20 B	25/25	40/40	63/63	80/80	100/100
110 VDC	DC-21 A / DC-21 B	25/25[2]	40/40[2]	63/63[2]	80/80[2]	100/100[2]
250 VDC	DC-20 A / DC-20 B	25/25	40/40	63/63	80/80	100/100
250 VDC	DC-21 A / DC-21 B	25/25[3]	40/40[3]	63/63[3]	80/80[3]	100/100[3]
400 VDC	DC-20 A / DC-20 B	25/25	40/40	63/63	80/80	100/100
400 VDC	DC-21 A / DC-21 B	25/25[4]	25/25[4]	40/40[4]	40/40[4]	63/63[4]
Operational power in AC-23 (kW)						
400 VAC without pre-break AC(kW)[5]		11	18.5	30	37	45
500 VAC without pre-break AC(kW)[5]		11	18.5	30	37	45
690 VAC without pre-break AC(kW)[5]		15	15	30	37	45
Fuse protected short-circuit withstand (kA rms prospective)[6]						
Prospective short-circuit current (kA rms)		50	50	50	50	25
Associated fuse rating (A)		25	40	63	80	100
Circuit breaker protected short-circuit withstand with any circuit breaker that ensures tripping in less than 0.3s						
Rated short-time withstand current 0.3s. I_{cw} (kA rms)		2.5	2.5	3	3	5
Short-circuit capacity (without protection)						
Rated short-time withstand current 1s. I_{cw} (kA rms)		1.26	1.26	1.5	1.5	2.75
Rated peak withstand current (kA peak)[6]		6	6	9	9	12
Connection						
Minimum Cu cable cross-section (mm^2)		1.5	1.5	2.5	2.5	10
Maximum Cu cable cross-section (mm^2)		16	16	35	35	70
Tightening torque (Nm)		3	3	4.5	4.5	5
Mechanical characteristics						
Durability (number of operating cycles)		100 000	100 000	100 000	100 000	100 000
Operating effort - 3 pole device (Nm)		1	1	1.4	1.4	1.6
Operating effort - 4 pole device (Nm)		1.2	1.2	1.6	1.6	2
Weight of a 3 pole device (kg)		0.18	0.18	0.27	0.27	0.55
Weight of a 4 pole device (kg)		0.23	0.23	0.33	0.33	0.72
Degree of protection						
IP rating		IP65				
Accessories						
Unswitched neutral (Reference)		2200 5005	2200 5005	2200 5009	2200 5009	22005011
Auxiliary contacts NO + NC (Reference)		2299 0001				
Auxiliary contacts 2NC (Reference)		2299 0011				
Terminal shrouds - Reference for 1P		2294 1005	2294 1005	2294 1009	2294 1009	2294 1011
Terminal shrouds - Reference for 3P		2294 3005	2294 3005	2294 3009	2294 3009	2294 3016

(1) Category with index A = frequent operation - Category with index B = infrequent operation.
(2) One pole per polarity.
(3) 3-pole device with 2 poles in series for the „+" and 1 pole for the „-".
(4) 4-pole device with 2 poles in series per polarity.
(5) The power value is given for information only, the current values vary from one manufacturer to another.
(6) For a rated operational voltage Ue = 415 VAC.

SIRCO characteristics according to IEC 60947-3

160 A - 250 A

Thermal current I_{th} at 40°C		**160 A**	**250 A**
Frame size		**B3**	**B4**
Rated insulation voltage U_i (V)		800	800
Rated impulse withstand voltage U_{imp} (kV)		8	8
Rated operational currents I_e (A)			
Rated voltage	**Utilisation category**	**A / B[1]**	**A / B[1]**
415 VAC	AC-20 A / AC-20 B	160 / 160	250 / 250
415 VAC	AC-21 A / AC-21 B	160 / 160	250 / 250
415 VAC	AC-22 A / AC-22 B	160 / 160	250 / 250
415 VAC	AC-23 A / AC-23 B	160 / 160	250 / 250
220 VDC	DC-20 A / DC-20 B	160 / 160	250 / 250
220 VDC	DC-21 A / DC-21 B	160 / 160	250 / 250
220 VDC	DC-22 A / DC-22 B	160 / 160	250 / 250
220 VDC	DC-23 A / DC-23 B	125 / 125	200 / 200
440 VDC	DC-20 A / DC-20 B	160 / 160	250 / 250
440 VDC	DC-21 A / DC-21 B	160[3] / 160[3]	200[3] / 200[3]
440 VDC	DC-22 A / DC-22 B	125[3] / 125[3]	200[3] / 200[3]
440 VDC	DC-23 A / DC-23 B	125[4] / 125[4]	200[4] / 200[4]
500 VDC	DC-20 A / DC-20 B	160 / 160	250 / 250
500 VDC	DC-21 A / DC-21 B	125[3] / 125[3]	200[3] / 200[3]
500 VDC	DC-22 A / DC-22 B	125[4] / 125[4]	200[4] / 200[4]
500 VDC	DC-23 A / DC-23 B	125[4] / 125[4]	200[4] / 200[4]
Operational power in AC-23 (kW)[1][5]			
At 415 VAC without AC pre-break[1]		80 / 80	132 / 132
Reactive power (kvar)			
At 400 VAC (kvar)[5]		75	115
gG DIN fuse protected short-circuit withstand (kA rms prospective)[6]			
Prospective short-circuit current (kA rms)		100	50
Associated fuse rating (A)		160	250
Circuit breaker protected short-circuit withstand with any circuit breaker that ensures tripping in less than 0.3s			
Rated short-time withstand current 0.3s. I_{cw} (kA rms)		15	17
Short-circuit operation (switch only)			
Rated short-time withstand current I_{cw} 1s (kA rms)		7	9
Rated peak withstand current in I_{cc} (kA peak)[6][7]		20	30
Connection			
Minimum Cu cable cross-section (mm^2)		50	95
Maximum Cu cable cross-section (mm^2)		95	150
Tightening torque min/max (Nm)		8.3 / 13	20 / 26
Mechanical characteristics			
Durability (number of operating cycles)		10 000	10 000
Operating effort (Nm)		6.5	10
Weight of a 3-pole device (kg)		1.5	2
Weight of a 4-pole device (kg)		1.5	2
Degree of protection			
IP rating		IP65	
Accessories			
Disconnectable solid neutral (accessory)		NB16 0000	NB25 0000
Auxiliary contacts 1st NO + NC (Reference)		2699 0031	
Auxiliary contacts 2nd NO + NC (Reference)		2699 0032	
Terminal shrouds - Reference for 3P		2694 3014	2694 3021
Terminal shrouds - Reference for 4P		2694 4014	2694 4021

(1) Category with index A = frequent operation - Category with index B = infrequent operation.
(2) With terminal shrouds or phase barrier.
(3) 3-pole device with 2 poles in series for the „+" and 1 pole for the „-".
(4) 4-pole device with 2 poles in series per polarity.
(5) The power value is given for information only, the current values vary from one manufacturer to another.
(6) For a rated operational voltage U_e = 415 VAC.
(7) Coordination tables with circuit breaker: please consult NHP.