

DATA SHEET



41AC4025

Manually operated transfer switch body SIRCOVER I-0-II 4P 250A



SIRCOVER products are manually operated transfer switches with positive break indication, for open-transition switching (I-0-II) available in 3 or 4 pole. They provide on-load transfer between two sources for any low voltage power circuit, as well as safety isolation by double breaking per pole. Other applications include source inversion (e.g. to change the direction of a motor) or grounding/earthing.

Strong points

- A complete range
- Easy to connect
- Stable positions
- On-load switching

General characteristics

- Range from 125A to 3200A.
- Available in 3P or 4P.
- Direct handle or external handle.

Compliance with standards

- IEC 60947-6-1
- IEC 60947-3
- GB/T 14048.11

Link to the reference

Classification

UNSPSC	39122205
ETIM Class	EC000216
IGCC	5177

Commerce

Effective date	2012-05-04
Country of origin	TN
Length of the product unit	0.16
Width of the product unit	0.312
Depth of the product unit	0.218
Weight	5.92

ETIM - Electrical characteristics

Max. rated operation voltage Ue AC [V]	800
Rated operating voltage [V]	400..690
Rated permanent current Iu [A]	250
Rated permanent current at AC-23, 400 V [A]	250
Rated permanent current at AC-21, 400 V [A]	250
Rated short-time withstand current Icw [kA]	10
Rated operation power at AC-23, 400 V [kW]	132
Switching power at 400 V [kW]	132
Conditioned rated short-circuit current Iq [kA]	50
Number of poles	4

ETIM - Mechanical characteristics

Suitable for floor mounting	No
Suitable for front mounting 4-hole	No
Suitable for front mounting centre	No
Suitable for distribution board installation	No
Suitable for intermediate mounting	Yes
Colour control element	Black
Degree of protection (IP), front side	IP20

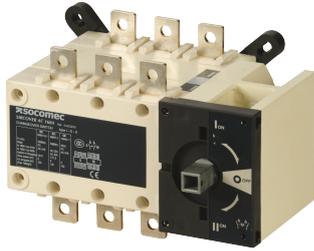
ETIM - Technical features

Version as main switch	Yes
Version as maintenance-/service switch	Yes
Version as safety switch	Yes
Version as emergency stop installation	No
Version as reversing switch	Yes
Number of switches	2
Motor drive optional	No
Motor drive integrated	No
Voltage release optional	No
Device construction	Built-in device fixed built-in technique
Type of control element	Door coupling rotary drive

Interlockable	Yes
Type of electrical connection of main circuit	Bolt connection
Logistics	
GTIN/EAN	3596032675622
Customs number	8536508090
Price unit	PC
Weight of the packing unit	5.92
Length of the packing unit	0.235
Width of the packing unit	0.224
Depth of the packing unit	0.373
Norms	
Conformity to standards	IEC
Technical Characteristics	
Control operator	Manual Direct : J2 / External : S2
Number of poles	4
Rated current	250
Type	Manual I-0-II
Frame size	B4

41AC3020

Manually operated transfer switch body SIRCOVER I-0-II 3P 200A



Strong points

- A complete range
- Easy to connect
- Stable positions
- On-load switching

General characteristics

- Range from 125A to 3200A.
- Available in 3P or 4P.
- Direct handle or external handle.

Compliance with standards

- IEC 60947-6-1
- IEC 60947-3
- GB/T 14048.11

Link to the reference

SIRCOVER products are manually operated transfer switches with positive break indication, for open-transition switching (I-0-II) available in 3 or 4 pole. They provide on-load transfer between two sources for any low voltage power circuit, as well as safety isolation by double breaking per pole. Other applications include source inversion (e.g. to change the direction of a motor) or grounding/earthing.

Classification

UNSPSC	39122205
ETIM Class	EC000216
IGCC	5177

Commerce

Effective date	2013-02-28
Country of origin	TN
Length of the product unit	0.135
Width of the product unit	0.221
Depth of the product unit	0.218
Weight	3.26

ETIM - Electrical characteristics

Max. rated operation voltage Ue AC [V]	800
Rated operating voltage [V]	400..690
Rated permanent current Iu [A]	200
Rated permanent current at AC-23, 400 V [A]	200
Rated permanent current at AC-21, 400 V [A]	200
Rated short-time withstand current Icw [kA]	7
Rated operation power at AC-23, 400 V [kW]	100
Switching power at 400 V [kW]	100
Conditioned rated short-circuit current Iq [kA]	50
Number of poles	3

ETIM - Mechanical characteristics

Suitable for floor mounting	No
Suitable for front mounting 4-hole	No
Suitable for front mounting centre	No
Suitable for distribution board installation	No
Suitable for intermediate mounting	Yes
Colour control element	Black
Degree of protection (IP), front side	IP20

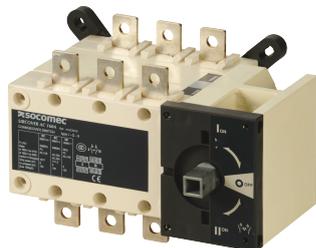
ETIM - Technical features

Version as main switch	Yes
Version as maintenance-/service switch	Yes
Version as safety switch	Yes
Version as emergency stop installation	No
Version as reversing switch	Yes
Number of switches	2
Motor drive optional	No
Motor drive integrated	No
Voltage release optional	No
Device construction	Built-in device fixed built-in technique
Type of control element	Door coupling rotary drive

Interlockable	Yes
Type of electrical connection of main circuit	Bolt connection
Logistics	
GTIN/EAN	3596032736941
Customs number	8536508090
Price unit	PC
Weight of the packing unit	3.26
Length of the packing unit	0.28
Width of the packing unit	0.17
Depth of the packing unit	0.215
Norms	
Conformity to standards	IEC
Technical Characteristics	
Control operator	Manual Direct : J2 / External : S2
Number of poles	3
Rated current	200
Type	Manual I-0-II
Frame size	B3

41AC3016

Manually operated transfer switch body SIRCOVER I-0-II 3P 160A



Strong points

- A complete range
- Easy to connect
- Stable positions
- On-load switching

General characteristics

- Range from 125A to 3200A.
- Available in 3P or 4P.
- Direct handle or external handle.

Compliance with standards

- IEC 60947-6-1
- IEC 60947-3
- GB/T 14048.11

Link to the reference

SIRCOVER products are manually operated transfer switches with positive break indication, for open-transition switching (I-0-II) available in 3 or 4 pole. They provide on-load transfer between two sources for any low voltage power circuit, as well as safety isolation by double breaking per pole. Other applications include source inversion (e.g. to change the direction of a motor) or grounding/earthing.

Classification

UNSPSC	39122205
ETIM Class	EC000216
IGCC	5177

Commerce

Effective date	2013-02-28
Country of origin	TN
Length of the product unit	0.135
Width of the product unit	0.221
Depth of the product unit	0.218
Weight	3.23

ETIM - Electrical characteristics

Max. rated operation voltage Ue AC [V]	800
Rated operating voltage [V]	400..690
Rated permanent current Iu [A]	160
Rated permanent current at AC-23, 400 V [A]	160
Rated permanent current at AC-21, 400 V [A]	160
Rated short-time withstand current Icw [kA]	7
Rated operation power at AC-23, 400 V [kW]	80
Switching power at 400 V [kW]	80
Conditioned rated short-circuit current Iq [kA]	100
Number of poles	3

ETIM - Mechanical characteristics

Suitable for floor mounting	No
Suitable for front mounting 4-hole	No
Suitable for front mounting centre	No
Suitable for distribution board installation	No
Suitable for intermediate mounting	Yes
Colour control element	Black
Degree of protection (IP), front side	IP20

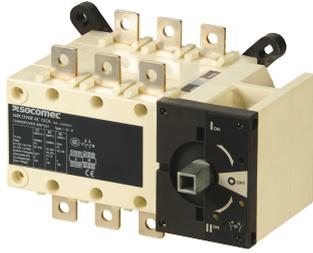
ETIM - Technical features

Version as main switch	Yes
Version as maintenance-/service switch	Yes
Version as safety switch	Yes
Version as emergency stop installation	No
Version as reversing switch	Yes
Number of switches	2
Motor drive optional	No
Motor drive integrated	No
Voltage release optional	No
Device construction	Built-in device fixed built-in technique
Type of control element	Door coupling rotary drive

Interlockable	Yes
Type of electrical connection of main circuit	Bolt connection
Logistics	
GTIN/EAN	3596032736927
Customs number	8536508090
Price unit	PC
Weight of the packing unit	3.23
Length of the packing unit	0.28
Width of the packing unit	0.175
Depth of the packing unit	0.22
Norms	
Conformity to standards	IEC
Technical Characteristics	
Control operator	Manual Direct : J2 / External : S2
Number of poles	3
Rated current	160
Type	Manual I-0-II
Frame size	B3

41AC3013

Manually operated transfer switch body SIRCOVER I-0-II 3P 125A



Strong points

- A complete range
- Easy to connect
- Stable positions
- On-load switching

General characteristics

- Range from 125A to 3200A.
- Available in 3P or 4P.
- Direct handle or external handle.

Compliance with standards

- IEC 60947-6-1
- IEC 60947-3
- GB/T 14048.11

Link to the reference

SIRCOVER products are manually operated transfer switches with positive break indication, for open-transition switching (I-0-II) available in 3 or 4 pole. They provide on-load transfer between two sources for any low voltage power circuit, as well as safety isolation by double breaking per pole. Other applications include source inversion (e.g. to change the direction of a motor) or grounding/earthing.

Classification

UNSPSC	39122205
ETIM Class	EC000216
IGCC	5177

Commerce

Effective date	2013-02-28
Country of origin	TN
Length of the product unit	0.135
Width of the product unit	0.221
Depth of the product unit	0.218
Weight	3.27

ETIM - Electrical characteristics

Max. rated operation voltage Ue AC [V]	800
Rated operating voltage [V]	400..690
Rated permanent current Iu [A]	125
Rated permanent current at AC-23, 400 V [A]	125
Rated permanent current at AC-21, 400 V [A]	125
Rated short-time withstand current Icw [kA]	7
Rated operation power at AC-23, 400 V [kW]	63
Switching power at 400 V [kW]	63
Conditioned rated short-circuit current Iq [kA]	100
Number of poles	3

ETIM - Mechanical characteristics

Suitable for floor mounting	No
Suitable for front mounting 4-hole	No
Suitable for front mounting centre	No
Suitable for distribution board installation	No
Suitable for intermediate mounting	Yes
Colour control element	Black
Degree of protection (IP), front side	IP20

ETIM - Technical features

Version as main switch	Yes
Version as maintenance-/service switch	Yes
Version as safety switch	Yes
Version as emergency stop installation	No
Version as reversing switch	Yes
Number of switches	2
Motor drive optional	No
Motor drive integrated	No
Voltage release optional	No
Device construction	Built-in device fixed built-in technique
Type of control element	Door coupling rotary drive

Interlockable	Yes
Type of electrical connection of main circuit	Bolt connection
Logistics	
GTIN/EAN	3596032736903
Customs number	8536508090
Price unit	PC
Weight of the packing unit	3.27
Length of the packing unit	0.28
Width of the packing unit	0.215
Depth of the packing unit	0.165
Norms	
Conformity to standards	IEC
Technical Characteristics	
Control operator	Manual Direct : J2 / External : S2
Number of poles	3
Rated current	125
Type	Manual I-0-II
Frame size	B3

DIRIS Digiware D and C

Display and system interface



DIRIS Digiware D-50/D-70
Centralisation and display of data



DIRIS Digiware C-31
Centralisation



Configuration
with Easy Config System.

Function

DIRIS Digiware D-50 and D-70

DIRIS Digiware D remote displays allow:

- local visualisation the data from DIRIS Digiware modules
- a power supply to the DIRIS Digiware modules,
- access to measurements over RS485 or Ethernet.

DIRIS Digiware D-50 and D-70 displays also act as a gateway, centralising measurements from DIRIS Digiware, DIRIS A, DIRIS B and COUNTIS E devices and making them available over Ethernet.

With the DIRIS Digiware D-70 display, data can be visualised on WEBVIEW-M, the "Power & Energy monitoring" embedded web server.

DIRIS Digiware displays are 24 VDC powered.

Advantages

DIRIS Digiware D

- High-resolution graphic screen
- Embedded web server (DIRIS Digiware D-70)
- Multi-protocols (Modbus, BACnet, SNMP)
- 24 VDC SELV (Safety Extra Low Voltage) power supply eliminating hazardous voltage on panel doors.
- Ergonomic and easy to use with 10 direct access buttons for:
 - device configuration,
 - circuit selection,
 - display of measurements.

DIRIS Digiware C-31

For applications without a local display DIRIS Digiware C-31 interfaces centralise all measurements and communicate data over RS485 to an external software or PLC. DIRIS Digiware C-31 interfaces and C-32 repeaters are 24 VDC powered.

Cyber security

Dedicated cyber security features referring to IEC 62443 to guarantee the confidentiality, integrity and availability of data and reduce the risk of cyber attacks:

- secured HTTPS navigation,
- secured data push (FTPS, SMTPS),
- restriction of certain protocols or services,
- firewall to prevent denial-of-service attacks.

DIRIS Digiware C-31

Compact: Centralise your measurement data on 1 module without a local screen, for a complete system:

- single 24 V power supply (no dangerous voltage on DIRIS Digiware modules for a connection with no interruption),
- a single RS485 communication.

The solution for

- > Industry
- > Building
- > Infrastructure
- > Data centers



Strong points

- > Centralising and displaying measurement data
- > A single power supply for the entire system
- > A single RS485 or Ethernet output for the entire system
- > WEBVIEW-M embedded web server

Compliance with standards

- > IEC 61557-12
- > IEC 62443



- > ISO 14025



- > UL



Create your project

- > Find the best DIRIS Digiware configuration:
www.meter-selector.com



Application	Control and power supply interface		
			
DIRIS Digiware	C-31	D-50	D-70
Digiware input	•	•	•
RS485 input		•	•
RS485 output	•	•	•
Ethernet output		Modbus BACnet IP SNMP v1, v2, v3	Modbus BACnet IP SNMP v1, v2, v3
Websserver		WEB-CONFIG	WEBVIEW-M

Functions



soft_073_b

WEBVIEW-M

Embedded web server in the DIRIS Digiware D-70 display

WEBVIEW-M allows the display and remote monitoring of all the electric parameters measured by up to 32 devices. They are displayed in the form of overview screens, graphs or tables for clear and user-friendly analysis.

Access to WEBVIEW is made by a web browser on a PC or tablet and offers multiple features such as the automatic export of data via FTPS or e-mail notification in the presence of alarms (SMTPS).

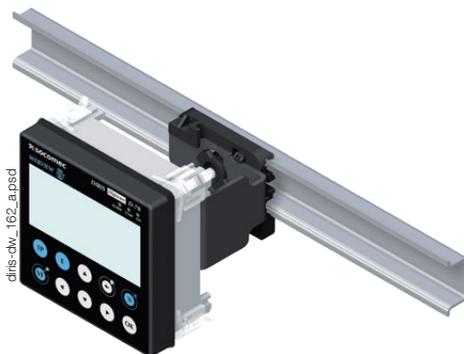
The Photoview application is available via the WEBVIEW interface embedded in the DIRIS Digiware D-70 display. It allows the display of electrical quantities on a customised background picture such as a cabinet, a wiring diagram or the map of a site.

Accessories

DIN rail mounting kit

The accessory allows you to install the DIRIS Digiware D-50/D-70 display on a DIN rail.

This kit is not included with the displays and must be ordered separately.



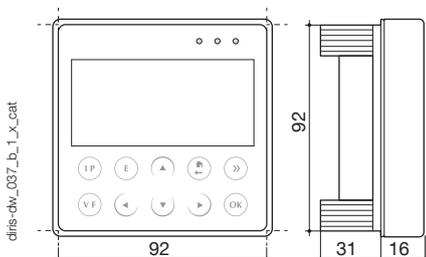
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DIRIS Digiware D and C

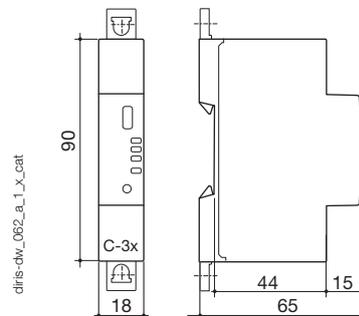
Display and system interface

Dimensions (mm)

DIRIS Digiware D-50/D-70



DIRIS Digiware C-31



Configuration

Equipment consumption

Product	Power delivered (W)	Power consumed (W)
Power supply		
P15 100-240 VAC / 24 VDC	15	
P30 100-240 VAC / 24 VDC	20	
Cables		
50 metre package		1.5
System interfaces		
DIRIS Digiware D-50/D-70		2.5
DIRIS Digiware C-31		0.8
Module voltage		
DIRIS Digiware U-xx		0.72
DIRIS Digiware U-3xdc		0.6
Current modules		
DIRIS Digiware I-3x		0.52
DIRIS Digiware I-4x		1.125
DIRIS Digiware I-6x		0.7
DIRIS Digiware I-3xdc (+ 3 DC current sensors)		2
DIRIS Digiware S-xx		0.35
Input/output modules		
DIRIS Digiware IO-10/IO-20		0.5
Repeater		
DIRIS Digiware C-32		1.5

Calculation rules for the max. number of products on the Digiware Bus

The total power consumed by the equipment connected to the Digiware Bus must not exceed the power from the 24 VDC supply.

The power supply must not exceed 20 W/70°C or 27 W/40°C.

Size with P15 power supply (ref: 4829 0120) delivering 15 W

For example, it is possible to use

- 1 DIRIS Digiware D-50 display (2.5 W)
- 1 DIRIS Digiware voltage module U-xx (0.72 W)
- 50 metres of cable (1.5 W)

and

- 19 DIRIS Digiware current modules I-3x (19 x 0.52 = 9.9 W)
- ⇒ **Total power = 14.845 W**

or

- 9 DIRIS Digiware current modules I-4x (9 x 1.125 = 10.125 W)
- ⇒ **Total power = 14.345 W.**

Size with a 24 VDC power supply delivering a maximum of 20 W (Power supply P30 ref: 4729 0603)

For example, it is possible to use

- 1 DIRIS Digiware D-50 display (2.5 W)
- 1 DIRIS Digiware voltage module U-xx (0.72 W)
- 50 metres of cable (1.5 W)

and

- 29 DIRIS Digiware current modules I-3x (29 x 0.52 = 15.1 W)
- ⇒ **Total power = 19.82 W**

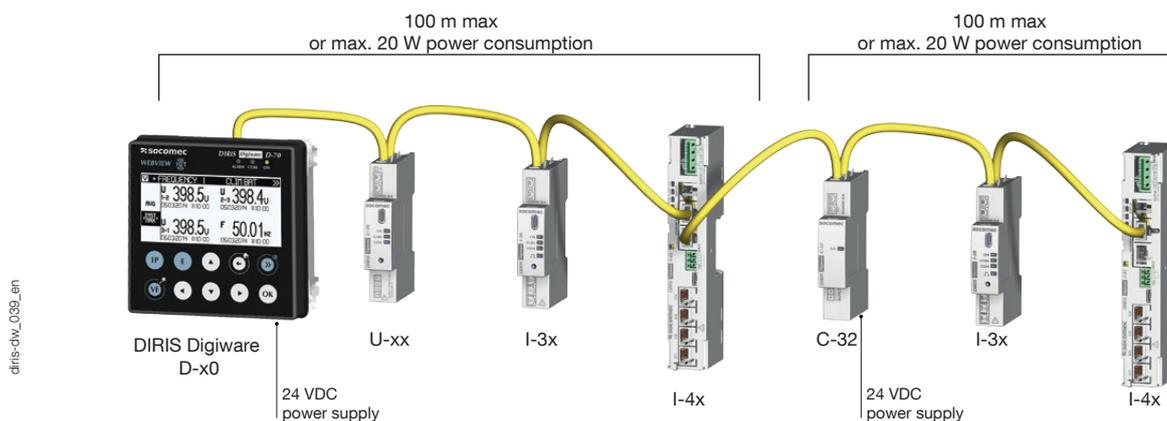
or

- 13 DIRIS Digiware current modules I-4x (13 x 1.125 = 14.625 W)
- ⇒ **Total power = 19.345 W.**

Repeater

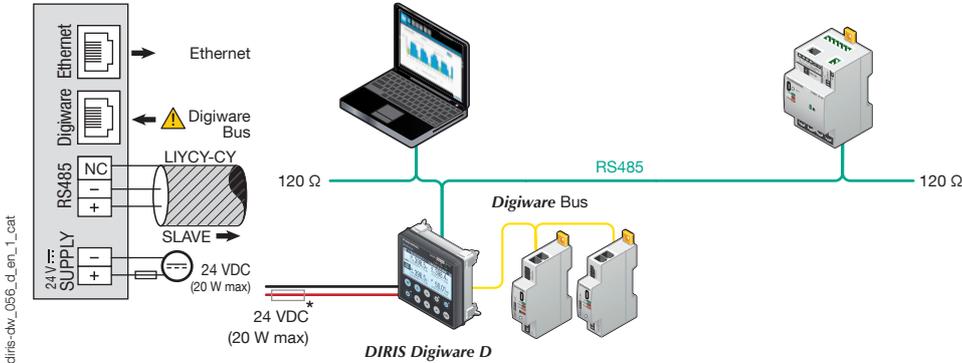
Whenever the power consumption is higher than 20 W or the distance is greater than 100 m, a DIRIS Digiware C-32 repeater is required.

In a DIRIS Digiware system, a maximum of 2 repeaters may be used.



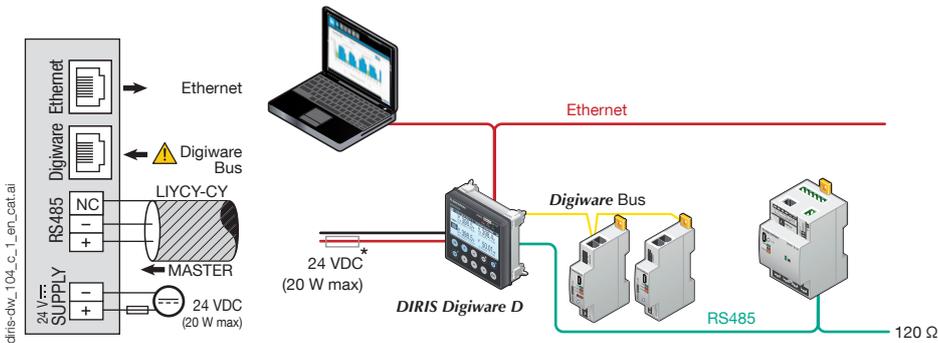
Connections

RS485 slave mode



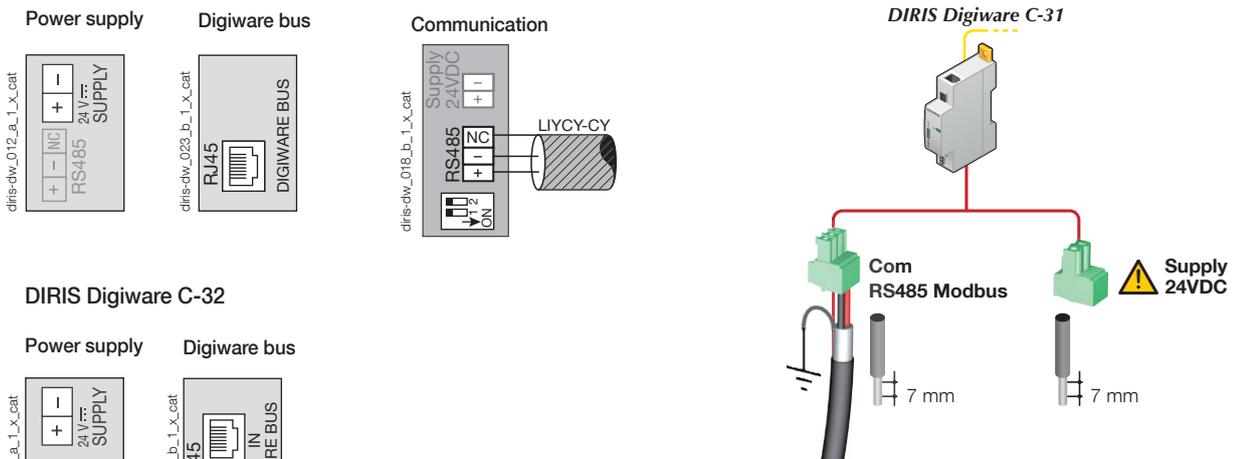
(*) 1A / 24 VDC fuse protection is recommended if the 24 VDC power supply is not provided by Socomec.

RS485 master mode

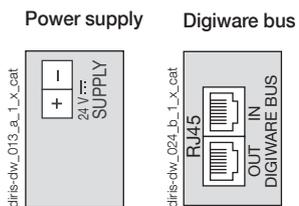


(*) 1A / 24 VDC fuse protection is recommended if the 24 VDC power supply is not provided by Socomec.

DIRIS Digiware C-31



DIRIS Digiware C-32



DIRIS Digiware D and C

Display and system interface

Technical characteristics

Electrical characteristics

DIRIS Digiware C-31	
Input voltage	24 VDC \pm 20 % - 20 W max
Connection	Removable screw terminal block, 2 positions, stranded or solid 0.2-2.5 mm ² cable
P15 power supply	Characteristics: 100-240 VAC/ 24 VDC - 0.63 A - 15 W Modular format - Dimensions (H x L): 90 x 36 mm

Communication specifications

Digiware Bus	
Function	Connection between DIRIS Digiware modules
Cable type	Specific Socomec cable with RJ45 connections
RS485	
Connection type	2 to 3 half duplex wires
Protocol	Modbus RTU
Baudrate	9600 to 115200 bauds
Function	Data configuration and reading
Location	Single-point on DIRIS Digiware C

Mechanical features

Casing type	DIN-rail mounting module and base
Casing protection index	IP20 / IK06
Front panel protection index	IP40 on the nose in modular assembly / IK06

Environmental specifications

Ambient operating temperature	-10 to +70°C
Storage temperature	-25 to +70°C
Operating humidity	55 °C / 97% HR
Operating altitude	< 2000 m

DIRIS Digiware D-50/D-70 features

Mechanical characteristics	
Type of screen	Capacitive touch-screen technology, 10 keys
Screen resolution	350 x 160 pixels
Front panel protection index	IP65

Communication	
Ethernet RJ45 10/100 Mbs	Gateway function (D-50/D-70): Modbus TCP BACnet IP SNMP v1, v2, v3
RJ45 Digiware	Control and power supply interface function
RS485 2-3 wires	Modbus RTU communication function Configurable as input or output
USB	Upgrade and configuration via type B micro USB connector

Electrical characteristics	
Power supply	24 VDC \pm 15 %
Power consumption	2.5 VA
Battery lifetime	10 years

Environmental specifications	
Storage temperature	-20 to +70°C
Operating temperature	-10 to +55°C
Humidity	95% at 40°C
Installation category, degree of pollution	CAT III, 2

Ports	
Digiware	Input
RS485	Input/Output
Ethernet	Output

References

DIRIS Digiware		Reference	
D-50	Multipoint display, Ethernet & RS485 output + WEB-CONFIG	4829 0204	
D-70	Multipoint display, Ethernet & RS485 output + WEBVIEW-M	4829 0203	
C-31	System interface - no display, RS485 output	4829 0101	
C-32	Repeater	4829 0103	
Power supply		Reference	
P15	Power supply 100-240 VAC/ 24 VDC 15 W	4829 0120	
P30	Power supply 100-240 VAC/ 24 VDC 20 W	4729 0603	
Digiware connection cables		Reference	
RJ45 cables for Digiware Bus	Length 0.06 m	4829 0189	
	Length 0.10 m	4829 0181	
	Length 0.20 m	4829 0188	
	Length 0.50 m	4829 0182	
	Length 1 m	4829 0183	
	Length 2 m	4829 0184	
	Length 3 m	4829 0190	
	Length 5 m	4829 0186	
	Length 10 m	4829 0187	
50 m reel + 100 connectors		4829 0185	
Termination for Digiware Bus (supplied with interfaces C and D)		4829 0180	
USB configuration cable		4829 0050	
Single-point display		Reference	
DIRIS D-30 ⁽¹⁾	Single-point display for DIRIS Digiware I-4x and DIRIS B	4829 0200	
Accessories		To be ordered in multiples of	Reference
Fuse holder to protect voltage inputs (type RM) 1 pole + neutral		4	5701 0017
gG 10x38 0.5 A fuses		10	6012 0000
DIN rail mounting kit for D-50 and D-70 displays		1	4829 0230
Door mounting kit DIN 144 x 96 mm			4729 0290
IP 65 flexible cover for 144 x 96 mm door mounting frame			4729 0291

(1) DIRIS D-30 display characteristics, see page "DIRIS B".

Expert Services

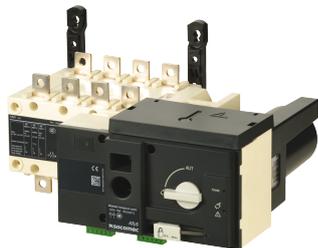
Require integration onto your network?

No problem for our "Expert Services" team. They will fully integrate all your SOCOMEC devices, **audit** your system, **commission** selected equipment and **train** your staff on its use.

For further information, please contact your nearest SOCOMEC branch.

95234016

Remotely operated transfer switch ATyS r 4P 160A



Strong points

- Watchdog relay to check product availability
- Integrated auxiliary contacts
- Extended power supply range
- More robust

General characteristics

- Range from 125A to 3200A.
- Available in 3P or 4P.
- Extended power supply range 166-332VAC.
- Robust design.

Compliance with standards

- IEC 60947-6-1
- IEC 60947-3
- GB/T 14048.11

Link to the reference

ATyS r are 3 or 4 pole remotely operated motorised transfer switches with positive break indication.

They enable the on-load transfer of two three-phase power supplies via remote volt-free contacts, from either an external automatic controller, using pulse logic, or a switch.

They are intended for use in low voltage power systems where interruption of the load supply is acceptable during transfer.

Classification

UNSPSC	39122205
ETIM Class	EC000216
IGCC	5177

Commerce

Effective date	2012-06-20
Country of origin	TN
Length of the product unit	0.135
Width of the product unit	0.317
Depth of the product unit	0.244
Weight	8.46

ETIM - Electrical characteristics

Max. rated operation voltage Ue AC [V]	800
Rated operating voltage [V]	400..690
Rated permanent current Iu [A]	160
Rated permanent current at AC-23, 400 V [A]	160
Rated permanent current at AC-21, 400 V [A]	160
Rated short-time withstand current Icw [kA]	7
Rated operation power at AC-23, 400 V [kW]	80
Switching power at 400 V [kW]	1280
Conditioned rated short-circuit current Iq [kA]	100
Number of poles	4

ETIM - Mechanical characteristics

Suitable for floor mounting	No
Suitable for front mounting 4-hole	No
Suitable for front mounting centre	No
Suitable for distribution board installation	No
Suitable for intermediate mounting	Yes
Colour control element	Other
Degree of protection (IP), front side	IP20

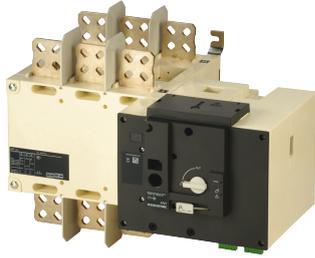
ETIM - Technical features

Version as main switch	Yes
Version as maintenance-/service switch	Yes
Version as safety switch	Yes
Version as emergency stop installation	No
Version as reversing switch	Yes
Number of switches	2
Number of auxiliary contacts as normally open contact	3
Motor drive optional	No
Motor drive integrated	Yes

Voltage release optional	No
Device construction	Built-in device fixed built-in technique
Type of control element	Other
Interlockable	Yes
Type of electrical connection of main circuit	Bolt connection
Logistics	
GTIN/EAN	3596032774806
Customs number	8536508090
Price unit	PC
Weight of the packing unit	8.53
Length of the packing unit	0.35
Width of the packing unit	0.47
Depth of the packing unit	0.365
Norms	
Conformity to standards	CCC IEC
Technical Characteristics	
Control operator	RTSE
Number of poles	4
Rated current	160
Type	Class PC
Frame size	B3

95233120

Remotely operated transfer switch ATyS r 3P 1250A



Strong points

- Watchdog relay to check product availability
- Integrated auxiliary contacts
- Extended power supply range
- More robust

General characteristics

- Range from 125A to 3200A.
- Available in 3P or 4P.
- Extended power supply range 166-332VAC.
- Robust design.

Compliance with standards

- IEC 60947-6-1
- IEC 60947-3
- GB/T 14048.11

Link to the reference

ATyS r are 3 or 4 pole remotely operated motorised transfer switches with positive break indication.

They enable the on-load transfer of two three-phase power supplies via remote volt-free contacts, from either an external automatic controller, using pulse logic, or a switch.

They are intended for use in low voltage power systems where interruption of the load supply is acceptable during transfer.

Classification

UNSPSC	39122205
ETIM Class	EC000216
IGCC	5177

Commerce

Effective date	2012-06-20
Country of origin	FR
Length of the product unit	0.33
Width of the product unit	0.504
Depth of the product unit	0.3915
Weight	45

ETIM - Electrical characteristics

Max. rated operation voltage Ue AC [V]	1000
Rated operating voltage [V]	400..690
Rated permanent current Iu [A]	1250
Rated permanent current at AC-23, 400 V [A]	1250
Rated permanent current at AC-21, 400 V [A]	1250
Rated short-time withstand current Icw [kA]	35
Rated operation power at AC-23, 400 V [kW]	750
Switching power at 400 V [kW]	10000
Conditioned rated short-circuit current Iq [kA]	100
Number of poles	3

ETIM - Mechanical characteristics

Suitable for floor mounting	No
Suitable for front mounting 4-hole	No
Suitable for front mounting centre	No
Suitable for distribution board installation	No
Suitable for intermediate mounting	Yes
Colour control element	Other
Degree of protection (IP), front side	IP20

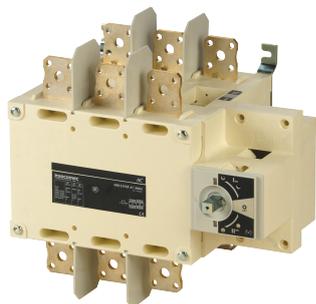
ETIM - Technical features

Version as main switch	Yes
Version as maintenance-/service switch	Yes
Version as safety switch	Yes
Version as emergency stop installation	No
Version as reversing switch	Yes
Number of switches	2
Number of auxiliary contacts as normally open contact	3
Motor drive optional	No
Motor drive integrated	Yes

Voltage release optional	No
Device construction	Built-in device fixed built-in technique
Type of control element	Other
Interlockable	Yes
Type of electrical connection of main circuit	Bolt connection
Logistics	
GTIN/EAN	3596032774738
Customs number	8536508090
Price unit	PC
Weight of the packing unit	44.5
Length of the packing unit	0.6
Width of the packing unit	0.8
Depth of the packing unit	0.58
Norms	
Conformity to standards	CCC IEC
Technical Characteristics	
Control operator	RTSE
Number of poles	3
Rated current	1250
Type	Class PC
Frame size	B6

95233100

Remotely operated transfer switch ATyS r 3P 1000A



Strong points

- Watchdog relay to check product availability
- Integrated auxiliary contacts
- Extended power supply range
- More robust

General characteristics

- Range from 125A to 3200A.
- Available in 3P or 4P.
- Extended power supply range 166-332VAC.
- Robust design.

Compliance with standards

- IEC 60947-6-1
- IEC 60947-3
- GB/T 14048.11

Link to the reference

ATyS r are 3 or 4 pole remotely operated motorised transfer switches with positive break indication.

They enable the on-load transfer of two three-phase power supplies via remote volt-free contacts, from either an external automatic controller, using pulse logic, or a switch.

They are intended for use in low voltage power systems where interruption of the load supply is acceptable during transfer.

Classification

UNSPSC	39122205
ETIM Class	EC000216
IGCC	5177

Commerce

Effective date	2012-06-20
Country of origin	FR
Length of the product unit	0.321
Width of the product unit	0.504
Depth of the product unit	0.3915
Weight	44

ETIM - Electrical characteristics

Max. rated operation voltage Ue AC [V]	1000
Rated operating voltage [V]	400..690
Rated permanent current Iu [A]	1000
Rated permanent current at AC-23, 400 V [A]	1000
Rated permanent current at AC-21, 400 V [A]	1000
Rated short-time withstand current Icw [kA]	35
Rated operation power at AC-23, 400 V [kW]	600
Switching power at 400 V [kW]	8000
Conditioned rated short-circuit current Iq [kA]	50
Number of poles	3

ETIM - Mechanical characteristics

Suitable for floor mounting	No
Suitable for front mounting 4-hole	No
Suitable for front mounting centre	No
Suitable for distribution board installation	No
Suitable for intermediate mounting	Yes
Colour control element	Other
Degree of protection (IP), front side	IP20

ETIM - Technical features

Version as main switch	Yes
Version as maintenance-/service switch	Yes
Version as safety switch	Yes
Version as emergency stop installation	No
Version as reversing switch	Yes
Number of switches	2
Number of auxiliary contacts as normally open contact	3
Motor drive optional	No
Motor drive integrated	Yes

Voltage release optional	No
Device construction	Built-in device fixed built-in technique
Type of control element	Other
Interlockable	Yes
Type of electrical connection of main circuit	Bolt connection
Logistics	
GTIN/EAN	3596032774721
Customs number	8536508090
Price unit	PC
Weight of the packing unit	44
Length of the packing unit	0.8
Width of the packing unit	0.6
Depth of the packing unit	0.73
Norms	
Conformity to standards	CCC IEC
Technical Characteristics	
Control operator	RTSE
Number of poles	3
Rated current	1000
Type	Class PC
Frame size	B6

95233063

Remotely operated transfer switch ATyS r 3P 630A



Strong points

- Watchdog relay to check product availability
- Integrated auxiliary contacts
- Extended power supply range
- More robust

General characteristics

- Range from 125A to 3200A.
- Available in 3P or 4P.
- Extended power supply range 166-332VAC.
- Robust design.

Compliance with standards

- IEC 60947-6-1
- IEC 60947-3
- GB/T 14048.11

Link to the reference

ATyS r are 3 or 4 pole remotely operated motorised transfer switches with positive break indication.

They enable the on-load transfer of two three-phase power supplies via remote volt-free contacts, from either an external automatic controller, using pulse logic, or a switch.

They are intended for use in low voltage power systems where interruption of the load supply is acceptable during transfer.

Classification

UNSPSC	39122205
ETIM Class	EC000216
IGCC	5177

Commerce

Effective date	2012-06-20
Country of origin	TN
Length of the product unit	0.26
Width of the product unit	0.377
Depth of the product unit	0.3205
Weight	15.56

ETIM - Electrical characteristics

Max. rated operation voltage Ue AC [V]	1000
Rated operating voltage [V]	400..690
Rated permanent current Iu [A]	630
Rated permanent current at AC-23, 400 V [A]	630
Rated permanent current at AC-21, 400 V [A]	630
Rated short-time withstand current Icw [kA]	10
Switching power at 400 V [kW]	5040
Conditioned rated short-circuit current Iq [kA]	50
Number of poles	3

ETIM - Mechanical characteristics

Suitable for floor mounting	No
Suitable for front mounting 4-hole	No
Suitable for front mounting centre	No
Suitable for distribution board installation	No
Suitable for intermediate mounting	Yes
Colour control element	Other
Degree of protection (IP), front side	IP20

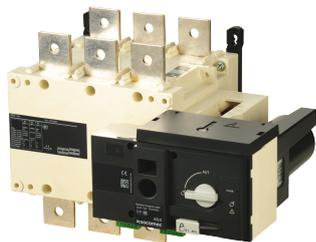
ETIM - Technical features

Version as main switch	Yes
Version as maintenance-/service switch	Yes
Version as safety switch	Yes
Version as emergency stop installation	No
Version as reversing switch	Yes
Number of switches	2
Number of auxiliary contacts as normally open contact	3
Motor drive optional	No
Motor drive integrated	Yes
Voltage release optional	No

Device construction	Built-in device fixed built-in technique
Type of control element	Other
Interlockable	Yes
Type of electrical connection of main circuit	Bolt connection
Logistics	
GTIN/EAN	3596032774707
Customs number	8536508090
Price unit	PC
Weight of the packing unit	15.56
Length of the packing unit	0.545
Width of the packing unit	0.365
Depth of the packing unit	0.425
Norms	
Conformity to standards	CCC IEC
Technical Characteristics	
Control operator	RTSE
Number of poles	3
Rated current	630
Type	Class PC
Frame size	B5

95233050

Remotely operated transfer switch ATyS r 3P 500A



Strong points

- Watchdog relay to check product availability
- Integrated auxiliary contacts
- Extended power supply range
- More robust

General characteristics

- Range from 125A to 3200A.
- Available in 3P or 4P.
- Extended power supply range 166-332VAC.
- Robust design.

Compliance with standards

- IEC 60947-6-1
- IEC 60947-3
- GB/T 14048.11

Link to the reference

ATyS r are 3 or 4 pole remotely operated motorised transfer switches with positive break indication.

They enable the on-load transfer of two three-phase power supplies via remote volt-free contacts, from either an external automatic controller, using pulse logic, or a switch.

They are intended for use in low voltage power systems where interruption of the load supply is acceptable during transfer.

Classification

UNSPSC	39122205
ETIM Class	EC000216
IGCC	5177

Commerce

Effective date	2012-06-21
Country of origin	FR
Length of the product unit	0.26
Width of the product unit	0.377
Depth of the product unit	0.3205
Weight	14.7

ETIM - Electrical characteristics

Max. rated operation voltage Ue AC [V]	1000
Rated operating voltage [V]	400..690
Rated permanent current Iu [A]	500
Rated permanent current at AC-23, 400 V [A]	500
Rated permanent current at AC-21, 400 V [A]	500
Rated short-time withstand current Icw [kA]	11
Rated operation power at AC-23, 400 V [kW]	295
Switching power at 400 V [kW]	4000
Conditioned rated short-circuit current Iq [kA]	50
Number of poles	3

ETIM - Mechanical characteristics

Suitable for floor mounting	No
Suitable for front mounting 4-hole	No
Suitable for front mounting centre	No
Suitable for distribution board installation	No
Suitable for intermediate mounting	Yes
Colour control element	Other
Degree of protection (IP), front side	IP20

ETIM - Technical features

Version as main switch	Yes
Version as maintenance-/service switch	Yes
Version as safety switch	Yes
Version as emergency stop installation	No
Version as reversing switch	Yes
Number of switches	2
Number of auxiliary contacts as normally open contact	3
Motor drive optional	No
Motor drive integrated	Yes

Voltage release optional	No
Device construction	Built-in device fixed built-in technique
Type of control element	Other
Interlockable	Yes
Type of electrical connection of main circuit	Bolt connection
Logistics	
GTIN/EAN	3596032774691
Customs number	8536508090
Price unit	PC
Weight of the packing unit	14.7
Length of the packing unit	0.54
Width of the packing unit	0.425
Depth of the packing unit	0.36
Norms	
Conformity to standards	CCC IEC
Technical Characteristics	
Control operator	RTSE
Number of poles	3
Rated current	500
Type	Class PC
Frame size	B5

95233040

Remotely operated transfer switch ATyS r 3P 400A



Strong points

- Watchdog relay to check product availability
- Integrated auxiliary contacts
- Extended power supply range
- More robust

General characteristics

- Range from 125A to 3200A.
- Available in 3P or 4P.
- Extended power supply range 166-332VAC.
- Robust design.

Compliance with standards

- IEC 60947-6-1
- IEC 60947-3
- GB/T 14048.11

Link to the reference

ATyS r are 3 or 4 pole remotely operated motorised transfer switches with positive break indication.

They enable the on-load transfer of two three-phase power supplies via remote volt-free contacts, from either an external automatic controller, using pulse logic, or a switch.

They are intended for use in low voltage power systems where interruption of the load supply is acceptable during transfer.

Classification

UNSPSC	39122205
ETIM Class	EC000216
IGCC	5177

Commerce

Effective date	2012-06-20
Country of origin	TN
Length of the product unit	0.17
Width of the product unit	0.328
Depth of the product unit	0.244
Weight	9.16

ETIM - Electrical characteristics

Max. rated operation voltage Ue AC [V]	1000
Rated operating voltage [V]	400..690
Rated permanent current Iu [A]	400
Rated permanent current at AC-23, 400 V [A]	400
Rated permanent current at AC-21, 400 V [A]	400
Rated short-time withstand current Icw [kA]	8
Rated operation power at AC-23, 400 V [kW]	220
Switching power at 400 V [kW]	3200
Conditioned rated short-circuit current Iq [kA]	50
Number of poles	3

ETIM - Mechanical characteristics

Suitable for floor mounting	No
Suitable for front mounting 4-hole	No
Suitable for front mounting centre	No
Suitable for distribution board installation	No
Suitable for intermediate mounting	Yes
Colour control element	Other
Degree of protection (IP), front side	IP20

ETIM - Technical features

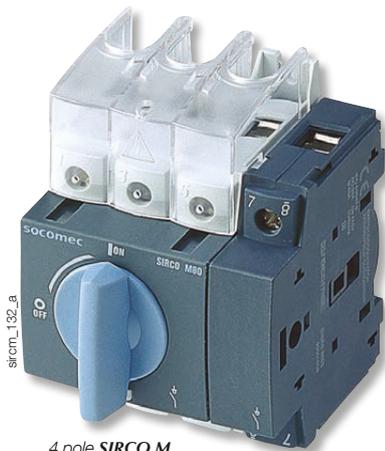
Version as main switch	Yes
Version as maintenance-/service switch	Yes
Version as safety switch	Yes
Version as emergency stop installation	No
Version as reversing switch	Yes
Number of switches	2
Number of auxiliary contacts as normally open contact	3
Motor drive optional	No
Motor drive integrated	Yes

Voltage release optional	No
Device construction	Built-in device fixed built-in technique
Type of control element	Other
Interlockable	Yes
Type of electrical connection of main circuit	Bolt connection
Logistics	
GTIN/EAN	3596032774684
Customs number	8536508090
Price unit	PC
Weight of the packing unit	9.16
Length of the packing unit	0.475
Width of the packing unit	0.38
Depth of the packing unit	0.355
Norms	
Conformity to standards	CCC IEC
Technical Characteristics	
Control operator	RTSE
Number of poles	3
Rated current	400
Type	Class PC
Frame size	B4

SIRCO M and SIRCO MV

Universal load break switches

from 16 to 160 A



4 pole **SIRCO M**
direct operation



4 pole **SIRCO MV**
direct operation

The solution for

- > Main incoming load break
- > Distribution load break
- > Machine control
- > Local safety load break



Strong points

- > Total integration
- > A wide range of accessories
- > Upgradeability
- > Compliance with major certifications and approvals
- > Specific characteristics

Conformity to standards

- > IEC 60947-3



- > Other standards available



*See pages SIRCO UL and CSA range

Approvals and certifications⁽¹⁾



(1) Product reference on request.

Function

SIRCO M and **SIRCO MV** are manually operated modifiable and modular multipolar load break switches.

They make and break under load conditions and provide safety isolation for any low voltage circuit, particularly for machine control circuits.

Through the use of accessories, **SIRCO M** can be transformed into multipolar load break or 3/4 pole changeover switches. **SIRCO M** changeover switches provide on load changeover switching between two sources or two low voltage power circuits, as well as their safety isolation.

Advantages

Total integration

The **SIRCO M** and **SIRCO MV** fully integrate isolation, breaking and switching functions. Within a single product, **SIRCO M** offers front, right side or left side operation. Their highly functional design enables the product to be easily transformed from a load break switch to a changeover switch, offering a highly innovative modular solution for numerous applications.

A wide range of accessories

A single standard module, which can be complemented with a choice of accessories, offers a range of advantages:

- Simplicity when choosing the device.
- Flexibility to adapt to the most varied applications.
- Reduction in the cost of management and storage.

Upgradeability

Its wide range of accessories means that the **SIRCO M** can be upgraded even after it has been commissioned, enabling future requirements to be met.

Compliance with major certifications and approvals

The **SIRCO M** and **SIRCO MV** range of load break switches have been designed, qualified and tested according to the criteria defined by standards IEC 60947-3, UL508 and UL98.

This process guarantees a high quality level for the product which is fully adapted to arduous operating environments.

General characteristics

- Double break per pole.
- Mounting options: DIN rail, panel or modular panel with 45 mm front cut out.
- IP20 accessories and device.
- Severe utilisation categories (AC-22 and AC-23).

Specific characteristics

SIRCO M:

- Positive break indication.
- Contact point technology.
- Product can be mounted directly on the door or panel side; see "Door mounting kit" in the accessory section.

SIRCO MV:

- Visible double breaking based on a sliding contact system (**SIRCO** type, see page "**SIRCO**").
- Positive break indication.

What you need to know

SIRCO M

- SIRCO M can be operated in 3 different ways:



Complete switch body for toggle operation



Direct front operation with handle



External operation
 front, left side or right side

- The SIRCO M is a **3 pole** load break switch which is available from **16 to 125 A**. It can be combined with a switched 4th pole, an unswitched neutral or PE pole and pre-break and signalling auxiliary contacts.
- From **16 to 125 A**, through the wide range of available accessories, it is possible to convert a 3 pole load break switch into a **4, 6 or 8 pole load break switch** or a **3/4 pole changeover switch**. Through use of its door mounting kit, SIRCO M load break switches can be mounted on the panel door.



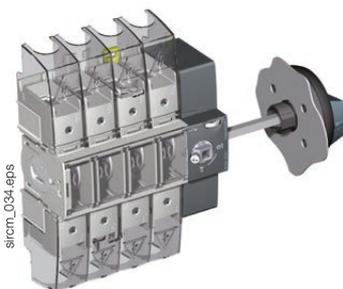
Changeover switches I - 0 - II

SIRCO MV

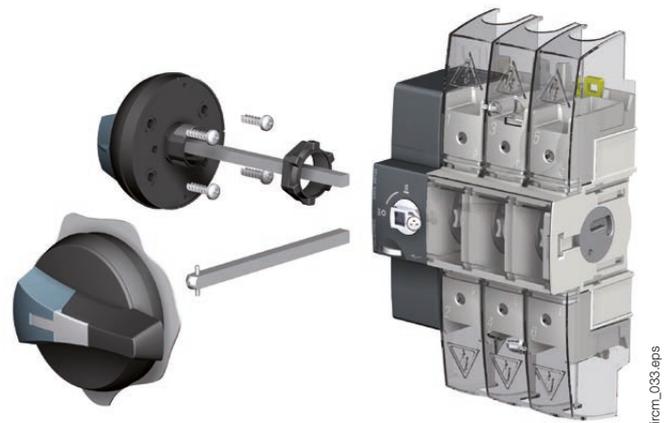
- 3 operations are available:



Direct front operation



External **right side** operation



External **front and left side** operation

- SIRCO MV can be ordered in **3 or 4 pole** from **100 to 160 A**.
- Two types of auxiliary contacts are available:
 - U-type pre-break,
 - M-type for signalisation.

SIRCO M and SIRCO MV

Universal load break switches

from 16 to 160 A

References

SIRCO M

SIRCO M - from 16 to 125 A									
Rating (A) / Frame size	No. of poles	Complete switch body toggle operation	Switch body	Direct handle	Door interlocked external front and right side handle ⁽⁶⁾	External left side handle ⁽⁶⁾	Front external handle for changeover switches ⁽⁶⁾	Shaft for external front and side handle ⁽⁶⁾	4 th pole
16 A / M1	3 P	2205 3000	2200 3000 ⁽¹⁾⁽²⁾⁽³⁾						2200 1000
20 A / M1	3 P	2205 3001	2200 3001 ⁽¹⁾⁽²⁾⁽³⁾						2200 1001
25 A / M1	3 P	2205 3002	2200 3002 ⁽¹⁾⁽²⁾⁽³⁾		S00 type I-0	S00 type I-0	S00 type I-0 - II	3/4 P ≤ 125 A 6/8 P & COS ≤ 80 A S0, S00 type	2200 1002
32 A / M1	3 P	2205 3003	2200 3003 ⁽¹⁾⁽²⁾⁽³⁾	M00 type Blue 2299 5012 Red 2299 5013	Black IP55 1471 1111 ⁽⁴⁾ Black IP65 1473 1111 ⁽⁴⁾ Red/Yellow IP65 1474 1111 ⁽⁴⁾	Black IP65 147A 5111 Red/Yellow IP65 147B 5111	Black IP65 1473 1113 ⁽⁴⁾ I - I+II - II Black IP65 1473 1114 ⁽⁴⁾	150 mm 1407 0515 200 mm 1407 0520 320 mm 1407 0532	2200 1003
40 A / M1	3 P	2205 3004	2200 3004 ⁽¹⁾⁽²⁾⁽³⁾						2200 1004
63 A / M2	3 P	2205 3006	2200 3006 ⁽¹⁾⁽²⁾⁽³⁾					6/8 P & COS 100 ... 125 A S00 type	2200 1006
80 A / M2	3 P	2205 3008	2200 3008 ⁽¹⁾⁽²⁾⁽³⁾					150 mm 1409 0615 200 mm 1409 0620 320 mm 1409 0632	2200 1008
100 A / M3	3 P		2200 3010 ⁽¹⁾⁽²⁾⁽³⁾	M01 type	S0 type I-0 Black IP55 1481 1111 ⁽⁴⁾ Black IP65 1483 1111 ⁽⁴⁾ Red/Yellow IP65 1484 1111 ⁽⁴⁾	S0 type I-0 Black IP65 148A 5111 Red/Yellow IP65 148B 5111	S00 type I - 0 - II Black IP65 1473 0113 I - I+II - II Black IP65 1473 0114		2200 1010
125 A / M3	3 P		2200 3011 ⁽¹⁾⁽²⁾⁽³⁾	Blue 2299 5032					2200 1011

(1) Front and side operation.

(2) For a 6-pole device in direct operation, order 2 x 3 pole device + conversion kit (for external operation, add the shaft + the handle).

(3) For an 8-pole device in direct operation, order 2 x 3 pole device + 2 x 4th poles + conversion kit (for external operation, add the shaft + the handle).

(4) Defeatable handle.

(5) Top and bottom.

(6) Other handles & shafts are available. Please see accessory pages.

SIRCO M

SIRCO M - from 16 to 125 A

Rating (A) / Frame size	No. of poles	Complete switch body toggle operation	Switch body	Unswitched neutral pole	Unswitched protective earth module	Auxiliary contact	Terminal shrouds	Door mounting kit
16 A / M1	3 P	2205 3000	2200 3000 ⁽¹⁾⁽²⁾⁽³⁾			M type 1 module NO + NC 2299 0001	1 P 2294 1005 ⁽⁴⁾ 3 P 2294 3005 ⁽⁴⁾	3/4 P Complete protection IP2X 2299 3309 ⁽⁵⁾ Compact design
20 A / M1	3 P	2205 3001	2200 3001 ⁽¹⁾⁽²⁾⁽³⁾					
25 A / M1	3 P	2205 3002	2200 3002 ⁽¹⁾⁽²⁾⁽³⁾					
32 A / M1	3 P	2205 3003	2200 3003 ⁽¹⁾⁽²⁾⁽³⁾					
40 A / M1	3 P	2205 3004	2200 3004 ⁽¹⁾⁽²⁾⁽³⁾					
63 A / M2	3 P	2205 3006	2200 3006 ⁽¹⁾⁽²⁾⁽³⁾	1 P 2200 5009	1 P 2200 9009	1 module 2 NO 2299 0011	1 P 2294 1009 ⁽⁴⁾ 3 P 2294 3009 ⁽⁴⁾	6/8 P Steel support 2299 3609 ⁽⁵⁾
80 A / M2	3 P	2205 3008	2200 3008 ⁽¹⁾⁽²⁾⁽³⁾	1 P 2200 5011	1 P 2200 9011		1 P 2294 1011 ⁽⁴⁾ 3 P 2294 3016 ⁽⁴⁾	3/4 P Steel support 2299 3609 ⁽⁵⁾
100 A / M3	3 P	2200 3010 ⁽¹⁾⁽²⁾⁽³⁾	2200 3010 ⁽¹⁾⁽²⁾⁽³⁾					
125 A / M3	3 P	2200 3011 ⁽¹⁾⁽²⁾⁽³⁾	2200 3011 ⁽¹⁾⁽²⁾⁽³⁾					

(1) Front and side operation.

(2) For a 6-pole device in direct operation, order 2 x 3 pole device + conversion kit (for external operation, add the shaft + the handle).

(3) For an 8-pole device in direct operation, order 2 x 3 pole device + 2 x 4th poles + conversion kit (for external operation, add the shaft + the handle).

(4) Top and bottom.

(5) Delivered with a shaft.

SIRCO MV

SIRCO M - from 100 to 160 A

Rating (A)	No. of poles	Switch body	Direct handle	Door interlocked external front and right side handle ⁽⁴⁾	External left side handle ⁽⁴⁾	Shaft for external front and side handle ⁽⁴⁾	Auxiliary signal contact	Pre-break auxiliary contact	Terminal shrouds						
100 A	3 P	2200 3110	M0b type Blue 2299 5042 ⁽¹⁾	S0 type I-0 Black IP65 1491 0111 ⁽²⁾	S0 type I-0 Black IP65 149A 9111	S0 type 150 mm 1409 0615 200 mm 1409 0620 320 mm 1409 0632	M type 1 module NO + NC 2299 0001	U type 1 contact NO 3999 0701	3 P 2294 3016 ⁽³⁾ 4 P 2294 4016 ⁽³⁾						
	4 P	2200 4110													
125 A	3 P	2200 3012								M0 type Blue 2299 5022	Black IP65 1493 0111 ⁽²⁾	Red/Yellow IP65 149B 9111	1 module 2 NO 2299 0011	1 contact NC 3999 0702	
	4 P	2200 4012													
160 A	3 P	2200 3016									Red/Yellow IP65 1494 0111 ⁽²⁾				
	4 P	2200 4016													

(1) Standard.

(2) Defeatable handle.

(3) Top and bottom.

(4) Other handles & shafts are available. Please see accessory pages.

SIRCO M and SIRCO MV

Universal load break switches

from 16 to 160 A

Accessories

Direct operation handle

For SIRCO M

Rating (A) / Frame size	Handle colour	Handle	Reference
16 ... 80 / M1 ... M2	Blue	M00 type	2299 5012 ⁽¹⁾
16 ... 80 / M1 ... M2	Red	M00 type	2299 5013
100 ... 125 / M3	Blue	M01 type	2299 5032 ⁽¹⁾

(1) Standard.

For SIRCO MV

Rating (A)	Handle colour	Handle	Reference
100 ... 160	Blue	M0b type	2299 5042 ⁽¹⁾
100 ... 160	Blue	M0 type	2299 5022

(1) Standard.



External handle operation - SIRCO M

S000 type handle

Rating (A) / Frame size	Type	No. of poles	Operation	Handle colour	External IP	Defeatable handle	Reference
16 ... 80 / M1... M2	Switch	3/4 P	Front and side operation	Black	IP65	no	1463 5111
	Switch	3/4 P	Front and side operation	Red/Yellow	IP65	no	1464 5111
16 ... 80 / M1... M2	Changeover switches I - 0 - II	3/4 P	Front	Black	IP65	no	1463 5113
	Changeover switches I - I+II - II	3/4 P	Front	Black	IP65	no	1463 5114



S000 handle

S00 type handle

Rating (A) / Frame size	Type	No. of poles	Operation	Handle colour	External IP	Defeatable handle	Reference
16 ... 80 / M1... M2	Switch	3/4 P ⁽¹⁾	Front and side operation	Black	IP55	yes	1471 1111
	Switch	3/4 P ⁽¹⁾	Front and side operation	Black	IP65	yes	1473 1111
	Switch	3/4 P ⁽¹⁾	Front and side operation	Red/Yellow	IP65	yes	1474 1111
	Switch	3/4 P	Left side	Black	IP65	no	147A 5111
	Switch	3/4 P	Left side	Red/Yellow	IP65	no	147B 5111
100 ... 125 / M3	Switch	6/8 P	Front	Black	IP55	yes	1471 0111
	Switch	6/8 P	Front	Black	IP65	yes	1473 0111
	Switch	6/8 P	Front	Red/Yellow	IP65	yes	1474 0111
16 ... 80 / M1... M2	Changeover switches I - 0 - II	3/4 P	Front	Black	IP65	yes	1473 1113
	Changeover switches I - I+II - II	3/4 P	Front	Black	IP65	yes	1473 1114
100 ... 125 / M3	Changeover switches I - 0 - II	3/4 P	Front	Black	IP65	yes	1473 0113
	Changeover switches I - I+II - II	3/4 P	Front	Black	IP65	yes	1473 0114



S00 handle

(1) Can also be used with 6 and 8 poles with front operation.

External operation handle - SIRCO M (continued)

S0 type handle

Rating (A) / Frame size	Type	No. of poles	Operation	Handle colour	External IP	Defeatable handle	Reference
100 ... 125 / M3	Switch	3/4 P	Front and side operation	Black	IP55	yes	1481 1111
	Switch	3/4 P	Front and side operation	Black	IP65	yes	1483 1111
	Switch	3/4 P	Front and side operation	Red/Yellow	IP65	yes	1484 1111
	Switch	3/4 P	Left side	Black	IP65	no	148A 5111
	Switch	3/4 P	Left side	Red/Yellow	IP65	no	148B 5111



S0 handle

access_343.eps

S01 type handle

Rating (A) / Frame size	Type	No. of poles	Operation	Handle colour	External IP	Defeatable handle	Reference
16 ... 125 / M1 ... M3	Switch	3/4 P ⁽²⁾	Front and side operation	Black	IP65	yes	1403 2111
	Switch	3/4 P ⁽²⁾	Front and side operation	Red/Yellow	IP65	yes	1404 2111
16 ... 80 / M1 ... M2	Changeover switches I - 0 - II	3/4 P	Front	Black	IP65	yes	1403 2113
	Changeover switches I - 0 - II	3/4 P	Front	Black	IP65	yes	1403 2813 ⁽¹⁾
	Changeover switches I - I+II - II	3/4 P	Front	Black	IP65	yes	1403 2114
	Changeover switches I - I+II - II	3/4 P	Front	Black	IP65	yes	1403 2814 ⁽¹⁾



S01 handle

access_304.eps

(1) Padlockable in 3 positions.

(2) Can also be used with 6 and 8 pole devices from 16 to 40 A.

External operation handle - SIRCO MV

S0 type handle

Rating (A)	Type	No. of poles	Operation	Handle colour	External IP	Defeatable handle	Reference
100 ... 160	Switch	3/4 P	Front and side operation	Black	IP55	yes	1491 0111
100 ... 160	Switch	3/4 P	Front and side operation	Black	IP65	yes	1493 0111
100 ... 160	Switch	3/4 P	Front and side operation	Red/Yellow	IP65	yes	1494 0111
100 ... 160	Switch	3/4 P	Left side	Black	IP65	no	149A 9111
100 ... 160	Switch	3/4 P	Left side	Red/Yellow	IP65	no	149B 9111



S0 handle

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S1 type handle

Rating (A)	Type	No. of poles	Operation	Handle colour	External IP	Defeatable handle	Reference
100 ... 160	Switch	3/4 P	Front	Black	IP55	yes	1411 2111
100 ... 160	Switch	3/4 P	Front	Black	IP65	yes	1413 2111
100 ... 160	Switch	3/4 P	Front	Red/Yellow	IP65	yes	1414 2111
100 ... 160	Switch	3/4 P	Right side	Black	IP55	no	1415 2111
100 ... 160	Switch	3/4 P	Right side	Black	IP65	no	1417 2111
100 ... 160	Switch	3/4 P	Right side	Red/Yellow	IP65	no	1418 2111
100 ... 160	Switch	3/4 P	Left side	Black	IP65	no	141A 2111
100 ... 160	Switch	3/4 P	Left side	Red/Yellow	IP65	no	141B 2111



S1 Handle

access_284.eps

SIRCO M and SIRCO MV

Universal load break switches

from 16 to 160 A

Accessories (continued)

Shaft for external handle

SIRCO M 3/4 P

Rating (A) / Frame size	Handle type	Type	Length (mm)	Reference
16 ... 125 / M1... M3	S000 / S00 / S0	Switch	150 mm	1407 0515
	S000 / S00 / S0	Switch	200 mm	1407 0520
	S000 / S00 / S0	Switch	320 mm	1407 0532
	S01	Switch	200 mm	1404 0520
	S01	Switch	320 mm	1404 0532
	S01	Switch	400 mm	1404 0540



access_346eps

SIRCO M 6/8 pole load break switch and 3/4 pole changeover switch

Rating (A)	Handle type	Type	Length (mm)	Reference
16 ... 80 / M1...M2	S000, S00	6/8 P and changeover switch	150 mm	1407 0515
	S000, S00	6/8 P and changeover switch	200 mm	1407 0520
	S000, S00	6/8 P and changeover switch	320 mm	1407 0532
100 ... 125 / M3	S00	6/8 P and changeover switch	150 mm	1409 0615
	S00	6/8 P and changeover switch	200 mm	1409 0620
	S00	6/8 P and changeover switch	320 mm	1409 0632
16 ... 40 / M1	S01	6/8 P	200 mm	1404 0520
	S01	6/8 P	320 mm	1404 0532
	S01	6/8 P	400 mm	1404 0540
16 ... 80 / M1 ... M2	S01	Changeover switch	200 mm	1404 0520
	S01	Changeover switch	320 mm	1404 0532
	S01	Changeover switch	400 mm	1404 0540

Use

Shaft lengths:

- 150 mm,
- 200 mm,
- 320 mm,
- 400 mm.

For 3/4 pole switches, shaft extensions are for external front and side operation.

For 6/8 pole switches and changeover switches, shaft extensions are for front operation only.

For SIRCO MV

Rating (A)	Handle type	Type	Length (mm)	Reference
100 ... 160	S0	Switch	150 mm	1409 0615
100 ... 160	S0	Switch	200 mm	1409 0620
100 ... 160	S0	Switch	320 mm	1409 0632
100 ... 160	S1	Switch	200 mm	1401 0620
100 ... 160	S1	Switch	320 mm	1401 0632
100 ... 160	S1	Switch	400 mm	1401 0640

Shaft guide for external operation

Use

To guide the shaft extension into the external handle.

This accessory enables the handle to engage the extension shaft with a misalignment of up to 15 mm. Required for a shaft length over 320 mm.

Description	Handle type	To be ordered in multiples of	Reference
Shaft guide	S00 and S0 / S000	10 pieces	1419 0000
Shaft guide	S01 and S1	1 piece	1429 0000



access_260eps

Additional pole for SIRCO M

Switched fourth pole module

Rating (A) / Frame size	No. of poles	Type	Reference
16 / M1	1 P	switched	2200 1000
20 / M1	1 P	switched	2200 1001
25 / M1	1 P	switched	2200 1002
32 / M1	1 P	switched	2200 1003
40 / M1	1 P	switched	2200 1004
63 / M2	1 P	switched	2200 1006
80 / M2	1 P	switched	2200 1008
100 / M3	1 P	switched	2200 1010
125 / M3	1 P	switched	2200 1011

Use

Adds one or two poles and transforms:

- a 3 pole SIRCO M into a 4 pole load break switch,
- a 6 pole SIRCO M into a 8 pole load break switch,
- a 3 pole SIRCO M into a 4 pole changeover switch.

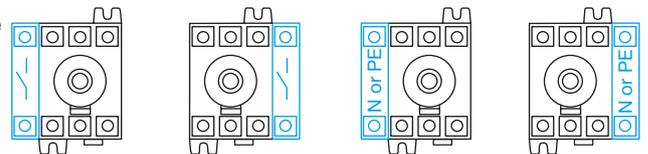


Neutral pole

Rating (A) / Frame size	No. of poles	Type	Reference
16 ... 40 / M1	1 P	unswitched	2200 5005
63 ... 80 / M2	1 P	unswitched	2200 5009
100 ... 125 / M3	1 P	unswitched	2200 5011

Use

Transforms the 3-pole switch into a 3-pole + solid neutral.

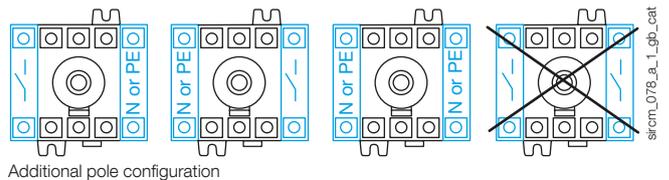


Protective earth module

Rating (A) / Frame size	No. of poles	Type	Reference
16 ... 40 / M1	1 P	unswitched	2200 9005
63 ... 80 / M2	1 P	unswitched	2200 9009
100 ... 125 / M3	1 P	unswitched	2200 9011

Use

Adds 1 protective earth module pole to the switch-disconnector.



Terminal shrouds

Use

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

Available in 1 or 3 pole versions for SIRCO M and in 3 or 4 pole versions for SIRCO MV.

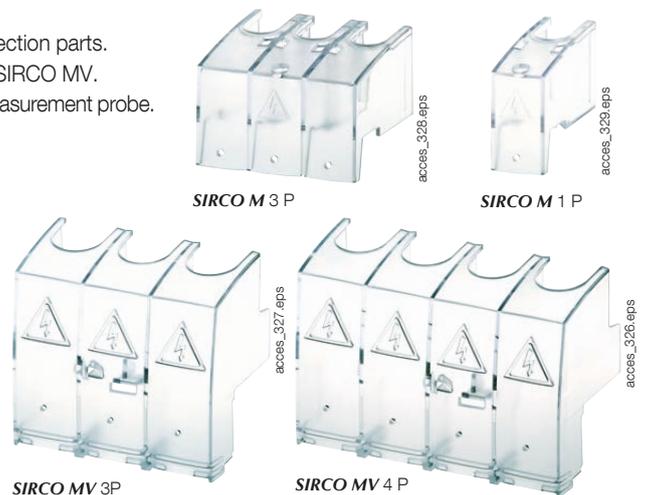
An opening on each terminal cover makes it possible to insert a temperature measurement probe.

For SIRCO M

Rating (A) / Frame size	No. of poles	Position	Reference
16 ... 40 / M1	1 P	top and bottom	2294 1005
16 ... 40 / M1	3 P	top and bottom	2294 3005
63 ... 80 / M2	1 P	top and bottom	2294 1009
63 ... 80 / M1	3 P	top and bottom	2294 3009
100 ... 125 / M3	1 P	top and bottom	2294 1011
100 ... 125 / M3	3 P	top and bottom	2294 3016

For SIRCO MV

Rating (A)	No. of poles	Position	Reference
100 ... 160	3 P	top and bottom	2294 3016
100 ... 160	4 P	top and bottom	2294 4016



SIRCO M and SIRCO MV

Universal load break switches

from 16 to 160 A

Accessories (continued)

M type auxiliary contacts

Use

Pre-break and signalisation of positions 0 and I by NO+NC or 2 NO auxiliary contacts.

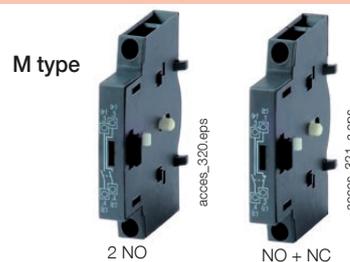
They allow to anticipate the switching of the main poles. They can be mounted on the left or on the right side of the device.

Max 4 auxiliary contacts (2 modules).

Pre-break is not guaranteed on the SIRCO MV.

Characteristics

NO+NC auxiliary contacts: IP2 with front operation.



For SIRCO M

Rating (A) / Frame size	Number of AC	Type of AC	Reference
16 ... 125 / M1...M3	1 AC	NO + NC	2299 0001
	1 AC	2 NO	2299 0011

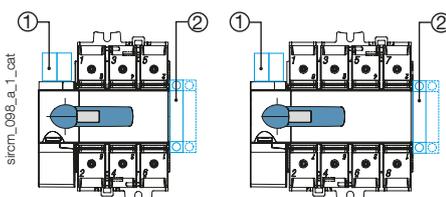
For SIRCO MV

Rating (A)	Number of AC	Type of AC	Reference
100 ... 160	1 AC	NO + NC	2299 0001
100 ... 160	1 AC	2 NO	2299 0011

Characteristics

Contact type	Nominal current (A)	Operating current I _e (A) 230 VAC	
		AC-13	AC-15
NO + NC	10	10	6

Auxiliary contact configurations for SIRCO MV



1. Maximum 2 "U" type auxiliary contacts.
2. Maximum 2 "M" type auxiliary contact modules.

For SIRCO MV

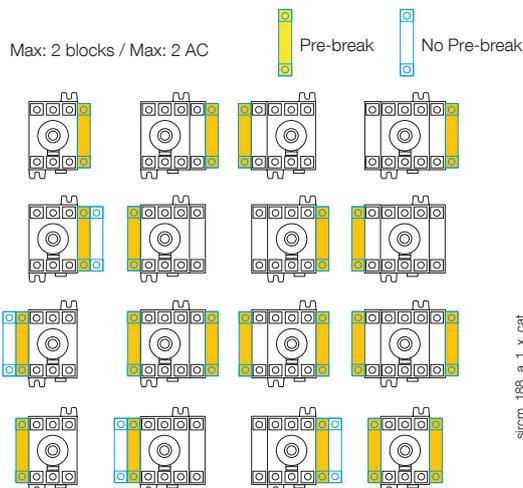
Rating (A)	Number of AC	Type of AC	Reference
100 ... 160	1 AC	NO	3999 0701
100 ... 160	1 AC	NC	3999 0702

Characteristics

Contact type	Nominal current (A)	Operating current I _e (A)			
		250 VAC AC-15	400 VAC AC-15	24 VDC DC-13	48 VDC DC-13
NC	10	3	1.8	2.8	1.4
NO	10	3	1.8	2.8	1.4

Auxiliary contacts configurations for SIRCO M

Max: 2 blocks / Max: 2 AC



U type



Use

Pre-break and signalisation by NO or NC auxiliary contact can be mounted on the device. Maximum 2 auxiliary contacts. Only available for SIRCO MV switches.

Conversion kit

Use

It must be ordered together with the handle for external control.

This accessory enables the assembly of two 3 pole switches (+ additional pole) in order to create :

- a 6 or 8 pole SIRCO M load break switch,
- a 3 or 4 pole SIRCO M changeover switch.

SIRCO M changeover switches provide on load changeover switching between two sources or two low voltage power circuits, as well as their safety isolation (I - 0 - II); transfer without interruption of the supply is also possible (I - I+II - II).

Load break switches 6/8 P

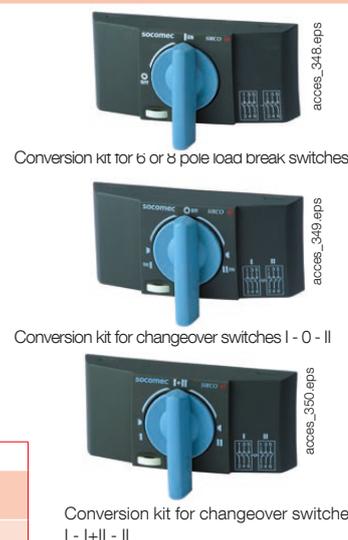
Rating (A) / Frame size	Type	Reference
16 ... 80 / M1 ... M2	6/8 P switch	2269 6009
100 ... 125 / M3	6/8 P switch	2269 6011

Changeover switches I - 0 - II

Rating (A) / Frame size	Type	Reference
16 ... 80 / M1 ... M2	Changeover switches I - 0 - II	2209 6009
100 ... 125 / M3	Changeover switches I - 0 - II	2209 6011

Changeover switches I - I+II - II

Rating (A) / Frame size	Type	Reference
16 ... 80 / M1 ... M2	Changeover switches I - I+II - II	2299 6009
100 ... 125 / M3	Changeover switches I - I+II - II	2299 6011



Door mounting kit⁽¹⁾

Use

This kit enables a direct mounting of the switch on the door panel, on the right or left side of the panel.
 The connection clamps of the switch are always accessible.

The external handle is quick and easy to install with the supplied internal locking nut mounted on the inside of the enclosure.
 3 kits are available:
 - one for complete protection IP2X
 - one with compact design
 - one in steel for 6/8 P and 100/125 A.



For SIRCO M

(1) Kit compatible with S00 type handle only.

Rating (A) / Frame size	No. of poles	Description	Reference
16 ... 80 / M1 ... M2	3/4 P	Complete protection IP2X	2299 3309
	3/4 P	Compact version	2299 3409
	6/8 P	Metallic support	2299 3609
100 ... 125	3/4 P	Metallic support	2299 3609

Cap for side operation mounting

Use

This accessory enables the front face of the SIRCO M to be capped when the switch is side operated. 20 pieces supplied per pack.

This piece snaps into place directly on the front face of the switch.



For SIRCO M

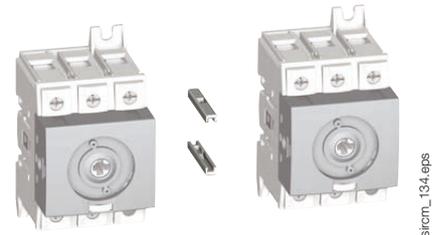
Rating (A) / Frame size	Pack	Reference
16 ... 125 / M1 ... M3	20 pieces	2299 9409

6/8 pole joining accessory

Use

This accessory enables two 3/4 pole switches to be coupled in order to provide a 6 or 8 pole switch for external side operation. 40 pieces supplied per pack.

For multi-pole switches, please consult us.



For SIRCO M

Rating (A) / Frame size	Pack	Reference
16 ... 80 / M1 ... M2	40 pieces	2299 9909

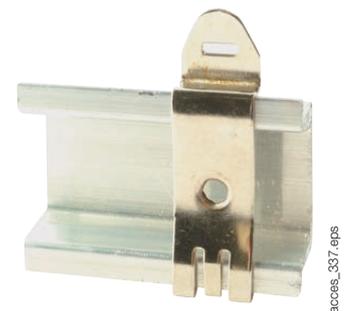
DIN rail locking clip

Use

This locking clip prevents the SIRCO MV from sliding when DIN rail mounted.

For SIRCO MV

Rating (A)	Type	Reference
100 ... 160	Locking clip M4	5000 0041
100 ... 160	Locking clip M5	5000 0051



Voltage sensing and power supply tap

Use

It allows connection of 2x ≤1.5 mm² voltage sensing or power cables.

This single-pole voltage sensing tap allows the connection of 2 x ≤1.5 mm² voltage sensing or power cables to any SIRCO MV power terminal without reducing its connection capacity.

For SIRCO MV

Rating (A)	Pack	Reference
100 ... 160	2 pieces	1399 4006



SIRCO M and SIRCO MV

Universal load break switches

from 16 to 160 A

Characteristics

Characteristics according to IEC 60947-3

Thermal current I_{th} (40 °C)	SIRCO M - from 16 to 125 A								
	16 A	20 A	25 A	32 A	40 A	63 A	80 A	100 A	125 A
Frame size	M1	M1	M1	M1	M1	M2	M2	M3	M3
Rated insulation voltage U_i (V)	800	800	800	800	800	800	800	800	800
Rated impulse withstand voltage U_{imp} (kV)	8	8	8	8	8	8	8	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	16/16	20/20	25/25	32/32	40/40	63/63	80/80	100/100	125/125
415 VAC	AC-21 A / AC-21 B	16/16	20/20	25/25	32/32	40/40	63/63	80/80	100/100	125/125
415 VAC	AC-22 A / AC-22 B	16/16	20/20	25/25	32/32	40/40	63/63	80/80	100/100	125/125
415 VAC	AC-23 A / AC-23 B	16/16	20/20	25/25	32/32	40/40	63/63	80/80	100/100	125/125
500 VAC	AC-20 A / AC-20 B	16/16	20/20	25/25	32/32	40/40	63/63	80/80	100/100	125/125
500 VAC	AC-21 A / AC-21 B	16/16	20/20	25/25	32/32	40/40	63/63	80/80	100/100	125/125
500 VAC	AC-22 A / AC-22 B	16/16	20/20	25/25	32/32	40/40	63/63	80/80	100/100	125/125
500 VAC	AC-23 A / AC-23 B	16/16	20/20	25/25	25/25	25/25	63/63	63/63	80/80	100/100
690 VAC	AC-20 A / AC-20 B	16/16	20/20	25/25	32/32	40/40	63/63	80/80	100/100	125/125
690 VAC	AC-21 A / AC-21 B	16/16	20/20	25/25	32/32	40/40	63/63	80/80	100/100	125/125
690 VAC	AC-22 A / AC-22 B	16/16	20/20	25/25	32/32	32/40	40/63	63/80	80/100	100/125
690 VAC	AC-23 A / AC-23 B	16/16	20/20	25/25	25/25	25/25	40/40	40/40	63/63	63/63
110 VDC	DC-20 A / DC-20 B	16/16	20/20	25/25	32/32	40/40	63/63	80/80	100/100	125/125
110 VDC	DC-21 A / DC-21 B	16/16 ⁽²⁾	20/20 ⁽²⁾	25/25 ⁽²⁾	32/32 ⁽²⁾	40/40 ⁽²⁾	63/63 ⁽²⁾	80/80 ⁽²⁾	100/100 ⁽²⁾	125/125 ⁽²⁾
250 VDC	DC-20 A / DC-20 B	16/16	20/20	25/25	32/32	40/40	63/63	80/80	100/100	125/125
250 VDC	DC-21 A / DC-21 B	16/16 ⁽³⁾	20/20 ⁽³⁾	25/25 ⁽³⁾	32/32 ⁽³⁾	40/40 ⁽³⁾	63/63 ⁽³⁾	80/80 ⁽³⁾	100/100 ⁽³⁾	125/125 ⁽³⁾
400 VDC	DC-20 A / DC-20 B	16/16	20/20	25/25	32/32	40/40	63/63	80/80	100/100	125/125
400 VDC	DC-21 A / DC-21 B	16/16 ⁽⁴⁾	20/20 ⁽⁴⁾	25/25 ⁽⁴⁾	25/25 ⁽⁴⁾	25/25 ⁽⁴⁾	40/40 ⁽⁴⁾	40/40 ⁽⁴⁾	63/63 ⁽⁴⁾	63/63 ⁽⁴⁾

Operational power in AC-23 (kW)

400 VAC without pre-break AC(kW) ⁽⁵⁾	7.5	9	11	15	18.5	30	37	45	55
500 VAC without pre-break AC(kW) ⁽⁵⁾	7.5	9	11	15	18.5	30	37	45	55
690 VAC without pre-break AC(kW) ⁽⁵⁾	7.5	11	15	15	15	30	37	45	55

Fuse protected short-circuit withstand (kA rms prospective)⁽⁶⁾

Prospective short-circuit current (kA rms)	50	50	50	50	50	50	50	25	25
Associated fuse rating (A)	16	20	25	32	40	63	80	100	125

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	2.5	2.5	2.5	3	3	5	5
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Short-circuit capacity (without protection)

Rated short-time withstand current 1s. I_{cw} (kA rms)	1.26	1.26	1.26	1.26	1.26	1.5	1.5	2.75	2.75
Rated peak withstand current (kA peak) ⁽⁶⁾	6	6	6	6	6	9	9	12	12

Connection

Minimum Cu cable cross-section (mm ²)	1.5	1.5	1.5	1.5	1.5	2.5	2.5	10	10
Maximum Cu cable cross-section (mm ²)	16	16	16	16	16	35	35	70	70
Tightening torque min/max (Nm)	2 / 2.2	2 / 2.2	2 / 2.2	2 / 2.2	2 / 2.2	3.5 / 3.85	3.5 / 3.85	4/4.4	4/4.4

Mechanical characteristics

Durability (number of operating cycles)	100 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000
Operating effort - 3 pole device (Nm)	1	1	1	1	1	1.4	1.4	1.6	1.6
Operating effort - 4 pole device (Nm)	1.2	1.2	1.2	1.2	1.2	1.6	1.6	2	2
Weight of a 3 pole device (kg)	0.18	0.18	0.18	0.18	0.18	0.27	0.27	0.55	0.55
Weight of a 4 pole device (kg)	0.23	0.23	0.23	0.23	0.23	0.33	0.33	0.72	0.72
Weight of a 6 pole device (kg)	0.40	0.40	0.40	0.40	0.40	0.59	0.59	1.30	1.30
Weight of a 8 pole device (kg)	0.50	0.50	0.50	0.50	0.50	0.69	0.69	1.65	1.65
Weight of a 3 pole device (kg)	0.40	0.40	0.40	0.40	0.40	0.59	0.59	1.30	1.30
Weight of a 4 pole device (kg)	0.50	0.50	0.50	0.50	0.50	0.69	0.69	1.65	1.65

(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 $U_e = 415$ VAC.

Characteristics

Characteristics according to IEC 60947-3

		SIRCO MV - from 100 to 160 A		
Thermal current I_{th} (40 °C)		100 A	125 A	160 A
Rated insulation voltage U _i (V)		800	800	800
Rated impulse withstand voltage U _{imp} (kV)		8	8	8
Rated operational currents I_e (A)				
Rated voltage	Utilisation category	A/B⁽¹⁾	A/B⁽¹⁾	A/B⁽¹⁾
415 VAC	AC-20 A / AC-20 B	100/100	125/125	160/160
415 VAC	AC-21 A / AC-21 B	100/100	125/125	160/160
415 VAC	AC-22 A / AC-22 B	100/100	125/125	160/160
415 VAC	AC-23 A / AC-23 B	100/100	125/125	125/160
500 VAC	AC-20 A / AC-20 B	100/100	125/125	160/160
500 VAC	AC-21 A / AC-21 B	100/100	125/125	160/160
500 VAC	AC-22 A / AC-22 B	100/100	125/125	125/160
500 VAC	AC-23 A / AC-23 B	80/80	100/100	100/100
690 VAC	AC-20 A / AC-20 B	100/100	125/125	160/160
690 VAC	AC-21 A / AC-21 B	100/100	125/125	160/160
690 VAC	AC-22 A / AC-22 B	63/80	80/100	100/125
690 VAC	AC-23 A / AC-23 B	63/63	80/80	80/80
110 VDC	DC-20 A / DC-20 B	100/100	125/125	160/160
110 VDC	DC-21 A / DC-21 B	100/100 ⁽²⁾	125/125 ⁽²⁾	160/160 ⁽²⁾
250 VDC	DC-20 A / DC-20 B	100/100	125/125	160/160
250 VDC	DC-21 A / DC-21 B	100/100 ⁽³⁾	125/125 ⁽³⁾	160/160 ⁽³⁾
400 VDC	DC-20 A / DC-20 B	100/100	125/125	160/160
400 VDC	DC-21 A / DC-21 B	100/100 ⁽⁴⁾	125/125 ⁽⁴⁾	160/160 ⁽⁴⁾
Operational power in AC-23 (kW)				
400 VAC without pre-break AC(kW) ⁽⁵⁾		45	55	75
500 VAC without pre-break AC(kW) ⁽⁵⁾		45	55	75
690 VAC without pre-break AC(kW) ⁽⁵⁾		45	75	75
Fuse protected short-circuit withstand (kA rms prospective)⁽⁶⁾				
Prospective short-circuit current (kA rms)		100	65	50
Associated fuse rating (A)		100	125	160
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)		7	7	7
Short-circuit capacity (without protection)				
Rated short-time withstand current 1s. I _{cw} (kA rms)		4	4	4
Rated peak withstand current (kA peak) ⁽⁶⁾		12	12	12
Connection				
Minimum Cu cable cross-section (mm ²)		10	10	10
Maximum Cu cable cross-section (mm ²)		70	70	70
Tightening torque min/max (Nm)		4 / 4.4	4 / 4.4	4 / 4.4
Mechanical characteristics				
Durability (number of operating cycles)		50 000	50 000	50 000
Operating effort - 3 pole device (Nm)		4	4	4
Operating effort - 4 pole device (Nm)		4.2	4.2	4.2
Weight of a 3 pole device (kg)		0.68	0.68	0.68
Weight of a 4 pole device (kg)		0.85	0.85	0.85

(1) Category with index A = frequent operation - Category with index B = infrequent operation.

(2) One pole per polarity.

(3) 2 poles in series for the "+" and 1 pole for the "-".

(4) 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.

SIRCO M and SIRCO MV

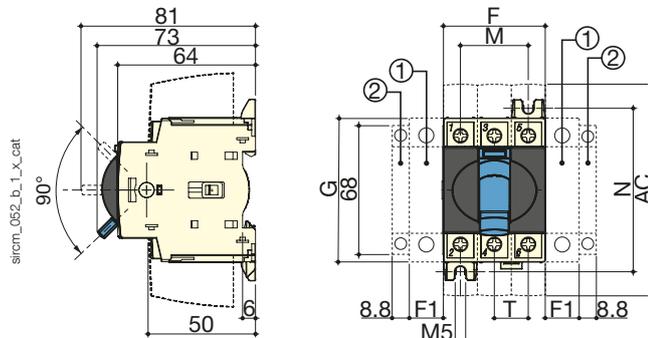
Universal load break switches

from 16 to 160 A

Dimensions

SIRCO M1 and M2 16 to 80 A

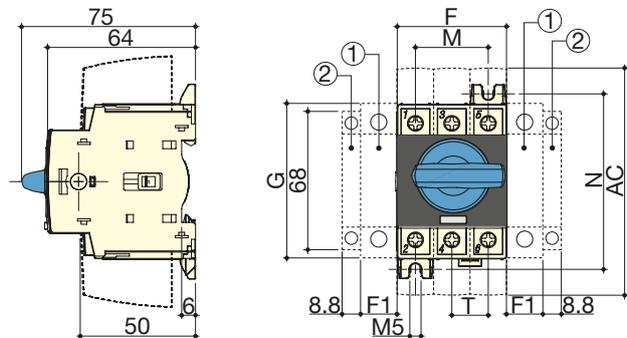
Toggle operation



1. Location for: 1 switched fourth pole module (1 per device max.) or 1 unswitched neutral pole or 1 protective earth module or 1 auxiliary contact.
 2. Position for 1 auxiliary contact module only.

Note: max 2 additional blocks.

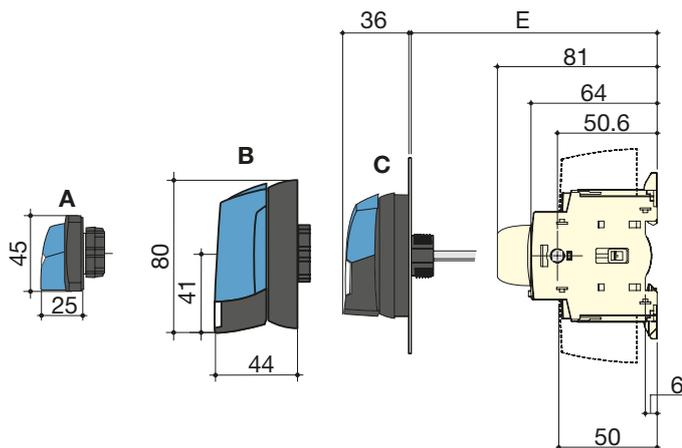
Direct operation with handle



1. Location for: 1 switched fourth pole module (1 per device max.) or 1 unswitched neutral pole or 1 protective earth module or 1 auxiliary contact.
 2. Position for 1 auxiliary contact module only.

Note: max 2 additional blocks.

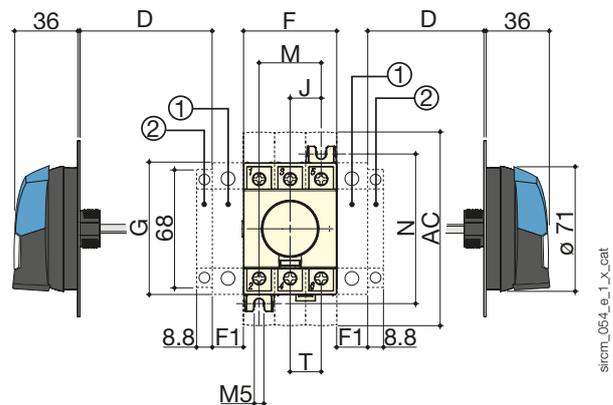
External front operation



1. Location for: 1 switched fourth pole module (1 per device max.) or 1 unswitched neutral pole or 1 protective earth module or 1 auxiliary contact.
 2. Position for 1 auxiliary contact module only.

Note: max 2 additional blocks.

External side operation



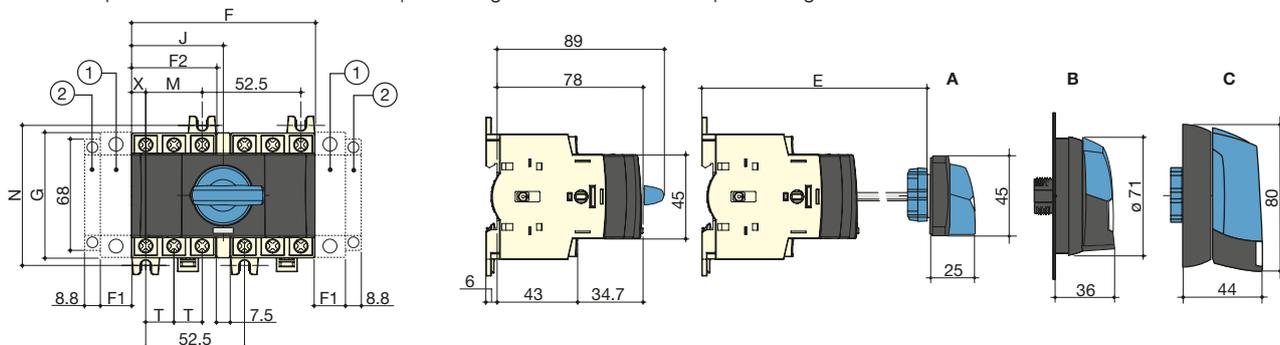
- A. S000 Handle
 B. S01 Handle
 C. S00 Handle.

Rating (A) / Frame size	Overall dimensions				Terminal shrouds		Switch body				Switch mounting		Connection
	D min	D max	E min	E max	AC	F	F1	G	J	M	N	T	
16 ... 40 / M1	30	235	100	372	110	45	15	68	15	30	75	15	
63 ... 80 / M2	30	235	100	372	110	52.5	17.5	76	17.5	35	85	17.5	

SIRCO M1 and M2 16 to 80 A (continued)

Direct front operation for 6/8-pole load break switches or 3/4-pole changeover switches

External front operation for 6/8-pole load break switches or 3/4-pole changeover switches



sircm_162_d_1_x_cat

1. Location for: 1 switched fourth pole module (1 per device max.) or 1 unswitched neutral pole or 1 protective earth module or 1 auxiliary contact.
 2. Position for 1 auxiliary contact module only.

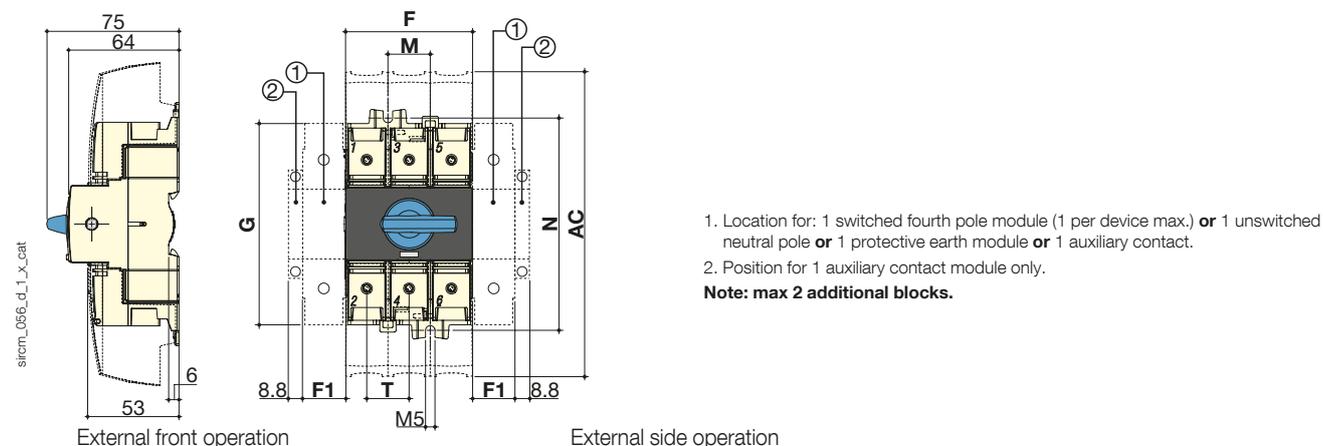
- A. S000 handle
 B. S00 handle
 C. S01 handle

Note: max 2 additional blocks.

Rating (A) / Frame size	Overall dimensions		Switch body					Switch mounting		Connection	
	E min	E max	F	F1	F2	G	J	M	N	T	X
16 ... 40 / M1	105	372	97.5	15	45	68	48.75	30	75	15	7.5
63 ... 80 / M2	105	372	105	17.5	52.5	76	52.5	35	85	17.5	8.75

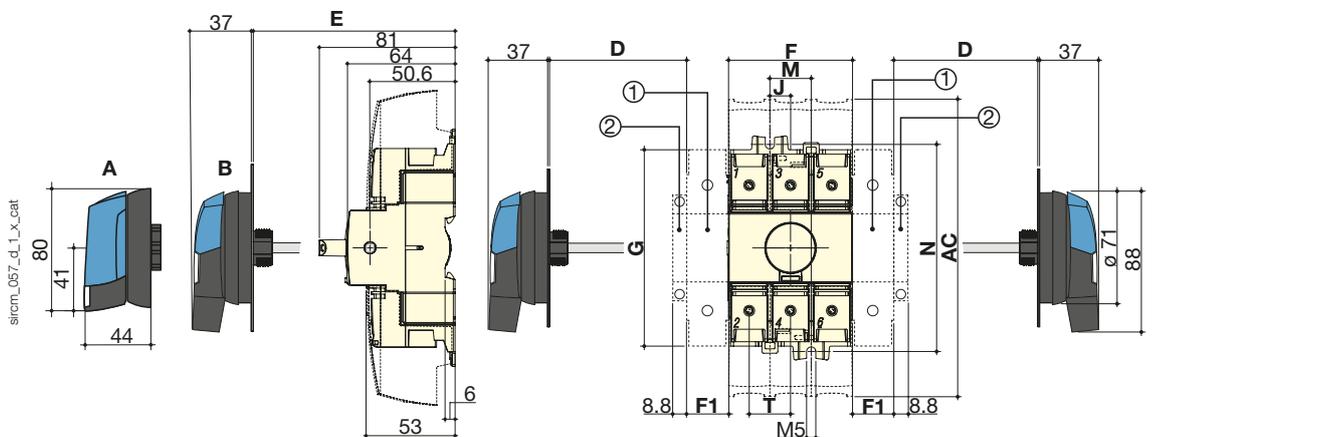
SIRCO M3 100 to 125 A

Direct operation with handle



1. Location for: 1 switched fourth pole module (1 per device max.) or 1 unswitched neutral pole or 1 protective earth module or 1 auxiliary contact.
 2. Position for 1 auxiliary contact module only.

Note: max 2 additional blocks.



1. Location for: 1 switched fourth pole module (1 per device max.) or 1 unswitched neutral pole or 1 protective earth module or 1 auxiliary contact.
 2. Position for 1 auxiliary contact module only.

Note: max 2 additional blocks.

- A. S01 handle
 B. S00 handle

Rating (A) / Frame size	Overall dimensions				Terminal shrouds		Switch body				Switch mounting		Connection
	D min	D max	E min	E max	AC	F	F1	G	J	M	N	T	
100 ... 125 / M3	30	201	100	372	189	78	26	124.6	13	26	131.4	26	

SIRCO M and SIRCO MV

Universal load break switches

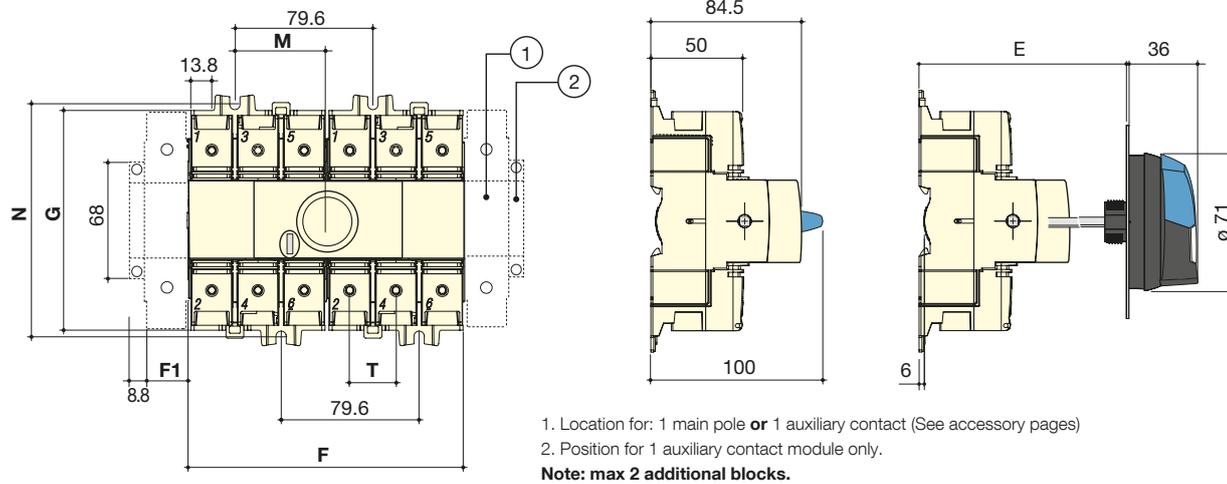
from 16 to 160 A

Dimensions (continued)

SIRCO M3 6/8 P and changeover switch M3 100 to 125 A

Direct front operation for 3/4 pole changeover switches

External front operation for 3/4 pole changeover switches



1. Location for: 1 main pole **or** 1 auxiliary contact (See accessory pages)
 2. Position for 1 auxiliary contact module only.
- Note: max 2 additional blocks.**

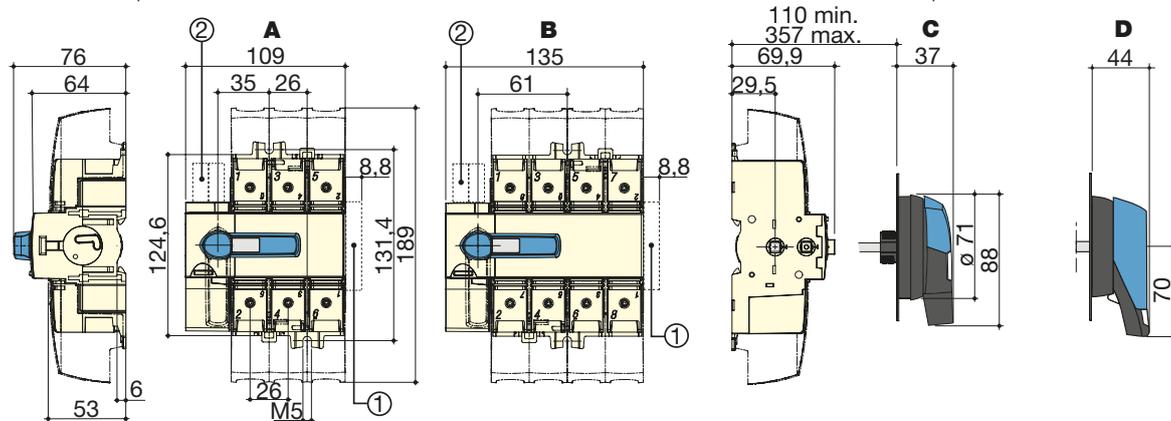
sirco_m183_e_1_x_cat

Rating (A) / Frame size	Overall dimensions		Switch body			Switch mounting		Connection
	E min	E max	F	F1	G	M	N	
100 ... 125 / M3	105	372	159	26	124.5	52.8	131.5	26

SIRCO MV 100 to 160 A

Direct front operation

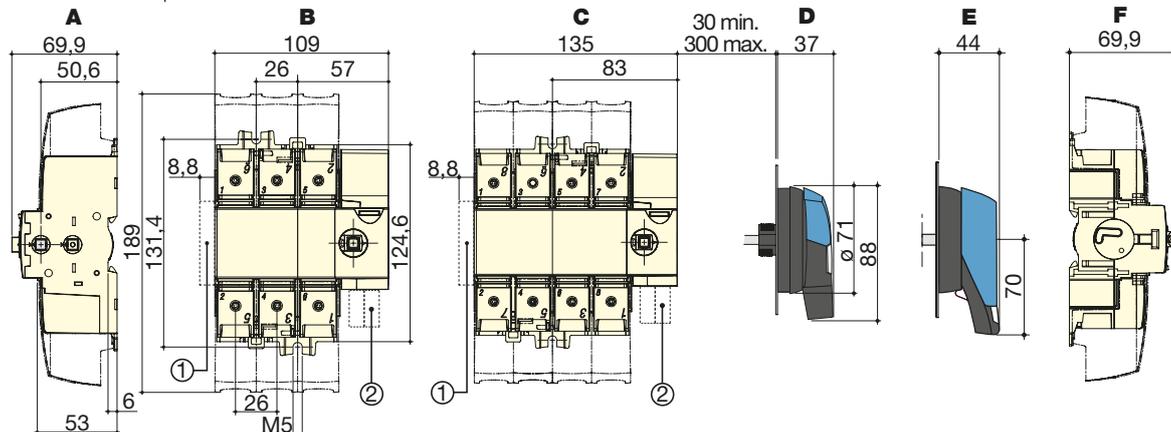
External front operation



- A. 3 poles
B. 4 poles
- C. S0 type handle
D. S1 type handle
1. Maximum 4 "M" type auxiliary contacts
 2. Maximum 2 "U" type auxiliary contacts

sirco_mv100_c_1_x_cat

External side operation

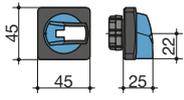
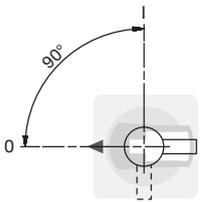
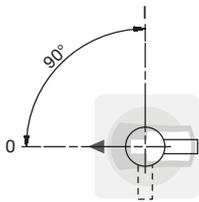
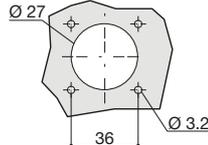
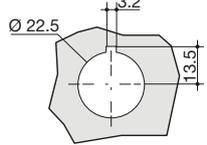
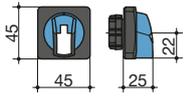
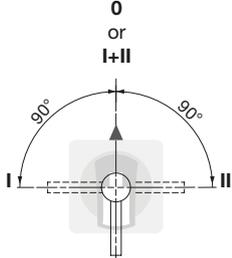
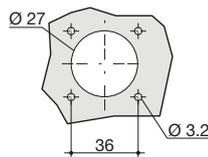
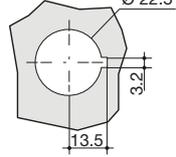
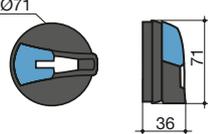
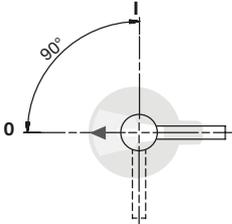
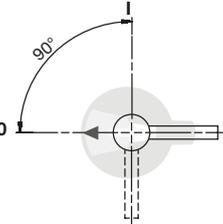
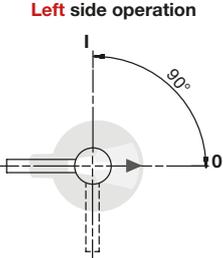
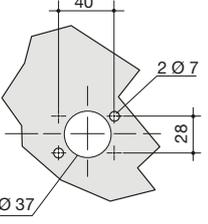
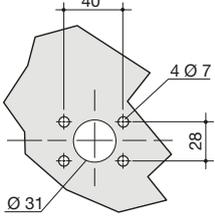
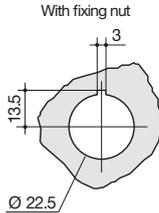
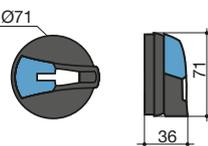
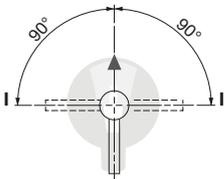
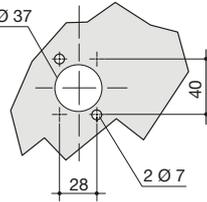
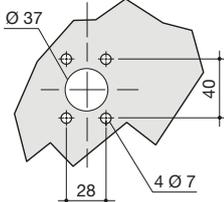
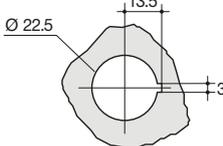


- A. Right side operation
B. 3 poles
C. 4 poles
- D. S0 type handle
E. S1 type handle
F. Left side operation
1. Maximum 4 "M" type auxiliary contacts
 2. Maximum 2 "U" type auxiliary contacts

sirco_mv100_d_1_x_cat

Dimensions for external handles

SIRCO M1 and M2

Handle type	Front operation Direction of operation	Side operation Direction of operation	Door drilling	
S000 type Load break switches 		Right side operation 	With 4 fixing screws 	With fixing nut 
S000 type Transfer switches I-0-II and I - I+II - II 	Front operation Direction of operation 0 or I+II 		With 4 fixing screws 	With fixing nut 
S00 type Load break switches 	Front operation Direction of operation 	Side operation Right side operation  Left side operation 	IP55 with 2 fixing clips 	IP65 with 4 fixing screws  With fixing nut 
S00 type Transfer switches I-0-II and I - I+II - II 	Front operation Direction of operation 0 or I+II 	IP55 with 2 fixing clips 	IP65 with 4 fixing screws 	With fixing nut 

poign_016_a_1_gb_cat

poign_017_b_1_gb_cat

poign_024_a_1_gb_cat

poign_025_b_1_gb_cat

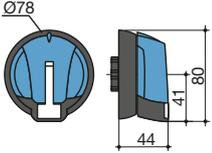
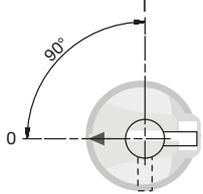
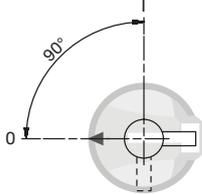
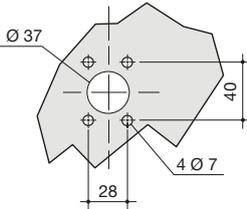
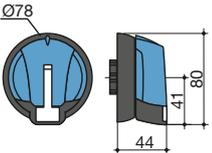
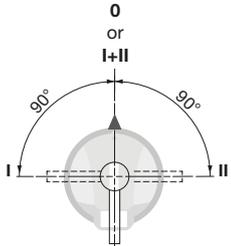
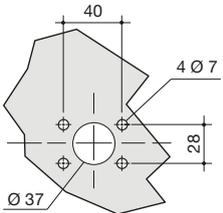
SIRCO M and SIRCO MV

Universal load break switches

from 16 to 160 A

Dimensions for external handles

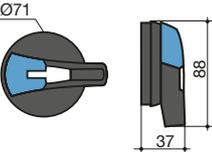
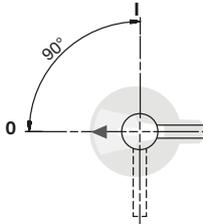
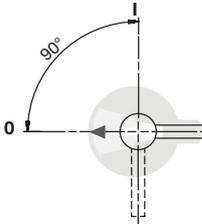
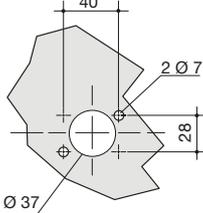
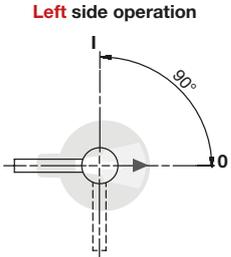
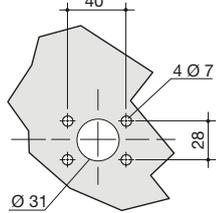
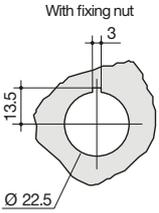
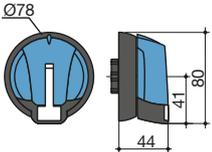
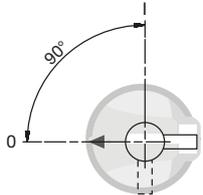
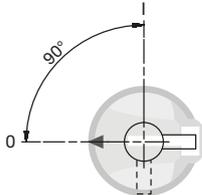
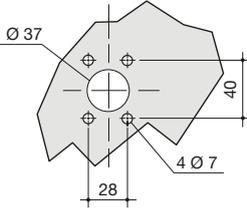
SIRCO M1 and M2 - 3/4 P and 6/8 P

Handle type	Front operation Direction of operation	Side operation Direction of operation	Door drilling
S01 type Load break switches 		Right side operation 	IP65 with 4 fixing screws 
S01 type Transfer switches I-0-II and I - I+II - II 	Front operation Direction of operation 		IP65 with 4 fixing screws 

poign_018_a_1_gb_cat

poign_019_b_1_gb_cat

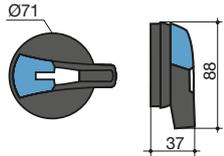
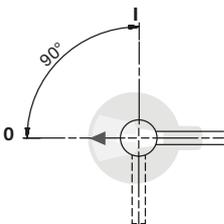
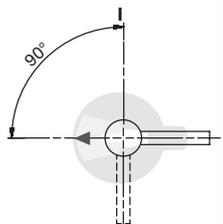
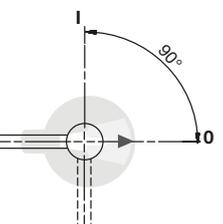
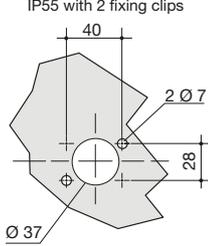
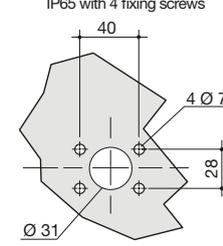
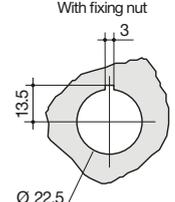
SIRCO M3

Handle type	Front operation Direction of operation	Side operation Direction of operation	Door drilling
S0 type Load break switches 		Right side operation 	IP55 with 2 fixing clips 
		Left side operation 	IP65 with 4 fixing screws 
			With fixing nut 
S01 type Load break switches 		Right side operation 	IP65 with 4 fixing screws 

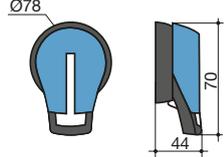
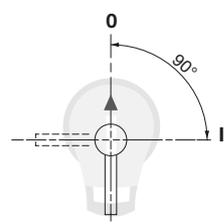
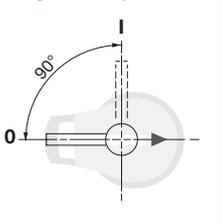
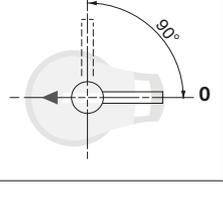
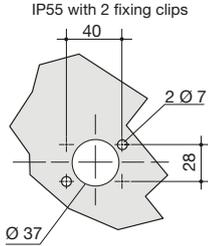
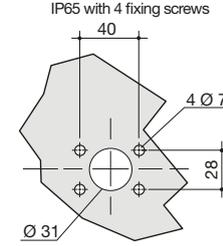
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poign_018_a_1_gb_cat

SIRCO MV

Handle type	Front operation Direction of operation	Side operation Direction of operation	Door drilling	
S0 type Load break switches 		Right side operation  Left side operation 	IP55 with 2 fixing clips  IP65 with 4 fixing screws  With fixing nut 	

poign_026_a_1_gb_cat

Handle type	Front operation Direction of operation	Side operation Direction of operation	Door drilling	
S1 type Load break switches 		Right side operation  Left side operation 	IP55 with 2 fixing clips  IP65 with 4 fixing screws 	

poign_027_a_1_gb_cat

SIRCO

Load break switches for power distribution
from 125 to 5000 A



Function

SIRCO and **SIRCO AC** are manually or remotely operated multipolar load break switches. They make and break under load conditions and provide safe isolation. SIRCO are designed for 415 VAC and DC low voltage electrical circuits. SIRCO AC are designed for heavy duty applications up to 1000 VAC - AC 23.

General characteristics

- Double positive break indication given through a position indication window, located directly on the product, and by the operating handle.
- Severe load duty categories (AC-22 and AC-23).
- High resistance to damp heat (supplied "tropicalised").

Advantages

Reliability and performance

The double breaking per pole, achieved through its sliding bar contact system, is a proven design that offers very high durability and short-circuit withstand. Improved breaking performance with quick opening and rapid closure.

Safety of property and personnel

The position indicator is located directly on the sliding bar contact mechanism, ensuring it can be seen in all circumstances.

The use of glass fibre reinforced polyester gives the SIRCO and SIRCO AC both high mechanical and thermal resistance.

Simplicity

The standardisation of the SIRCO and SIRCO AC range and its wide choice of common accessories enable:

- Simple mounting.
- Reduced stock management and storage costs.

Easy to install

The outdoors ranges are easy to install thanks to:

- A good centre-to-centre distance (up to 120 mm).
- Connection up to 6 x 185 mm².
- Connection accessories which facilitate both flat and edgewise connections.

The solution for

- > Main switchboard
- > Distribution panel
- > Emergency breaking
- > Network coupling
- > Local safety breaking



Strong points

- > Reliability and performance
- > Safety of property and personnel
- > Simplicity
- > Easy to install

Compliance with standards

- > IEC 60947-3



Approvals and certifications⁽¹⁾

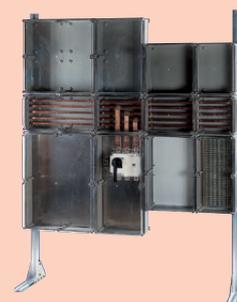


**BUREAU
VERITAS**

⁽¹⁾ Product reference on request.

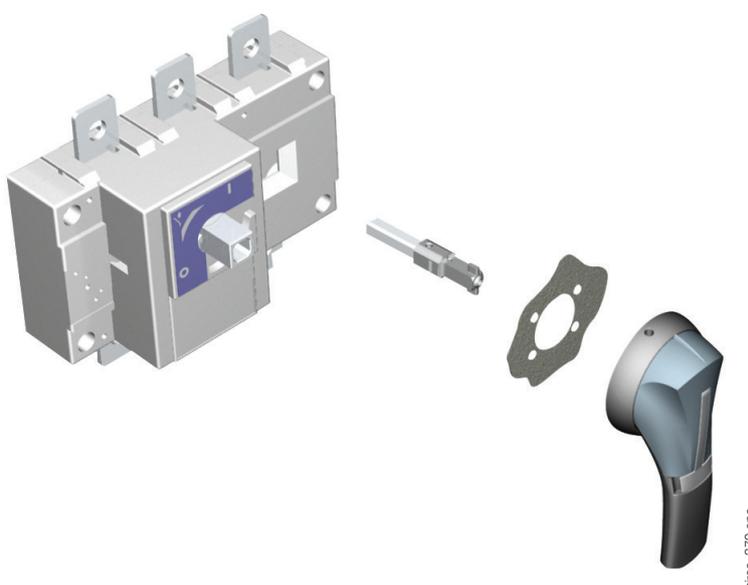
Enclosures

- > The SIRCO and SIRCO AC range can be easily fitted in our enclosures and cabinets designed for electrical distribution.



What you need to know

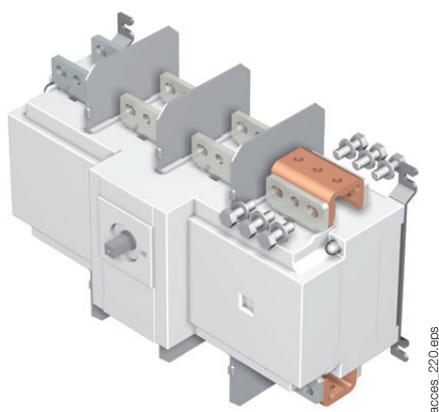
- In front **direct** or **external** operation, SIRCO is available in 3 and 4-pole versions from 125 to 5000 A.
- It can be ordered in 6 or 8-pole versions from 125 to 1600 A.
- SIRCO is available in a polyester or sheet metal enclosure from 125 to 1250 A.



sirco_372.eps

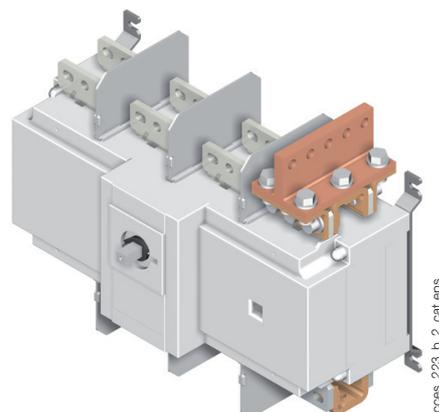
For ratings 2000, 2500 and 3200A, a copper **bar connection kit** enables the connection between the two power terminals of one pole.

Flat connection
top or bottom



access_220.eps

Edgewise connection
top or bottom



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SIRCO - References

Standard applications - Front operation - 3 & 4-pole

Rating (A) / Frame size	No. of poles	Switch body ⁽¹⁾	Direct handle	External handle	Shaft for external handle	Auxiliary contact	Terminal shrouds	Terminal screens
125 A / B3	3 P	2600 3014	J0 type Black				3 P	3 P
	4 P	2600 4014	1102 1111 ⁽²⁾ Red				2694 3014 ⁽³⁾ 4 P	2698 3012 ⁽³⁾ 4 P
160 A / B3	3 P	2600 3017	1103 1111				2694 4014 ⁽³⁾	2698 4012 ⁽³⁾
	4 P	2600 4017						
200 A / B4	3 P	2600 3021					3 P	3 P
	4 P	2600 4021					2694 3021 ⁽³⁾ 4 P	2698 3020 ⁽³⁾ 4 P
250 A / B4	3 P	2600 3026		S2 type Black IP55 1421 2111 ⁽²⁾ Black IP65 1423 2111 Red IP65 1424 2111	200 mm 1400 1020 320 mm 1400 1032 ⁽²⁾ 500 mm 1400 1050		2694 4021 ⁽³⁾	2698 4020 ⁽³⁾
	4 P	2600 4026						
315 A / B5	3 P	2600 3032	J1 type Black 1112 1111 Red 1113 1111					
	4 P	2600 4032						
400 A / B5	3 P	2600 3041						
	4 P	2600 4041						
500 A / B5	3 P	2600 3051						
	4 P	2600 4051						
630 A / B5	3 P	2600 3064						
	4 P	2600 4064						
800 A / B6	3 P	2600 3081				1 st NO/NC contact 2699 0031 2 nd NO/NC contact 2699 0032		
	4 P	2600 4081						
1000 A / B6	3 P	2600 3099						3 P 2698 3080 ⁽³⁾ 4 P 2698 4080 ⁽³⁾
	4 P	2600 4099						
CD 1250 A / B6	3 P	2600 3119	J4 type Blue 1142 1111 ⁽²⁾ Red 1143 1111	Type S4 Black IP65 1443 3111 ⁽²⁾ Red IP65 1444 3111	200 mm 1401 1520 320 mm 1401 1532 ⁽²⁾ 400 mm 1401 1540			
	4 P	2600 4119						
1250 A / B7	3 P	2600 3121						
	4 P	2600 4121						
1600 A / B7	3 P	2600 3161						3 P 2698 3120 ⁽³⁾ 4 P 2698 4120 ⁽³⁾
	4 P	2600 4161						
1800 A / B7	3 P	2600 3181						
	4 P	2600 4181						
2000 A / B8	3 P	2600 3200						
	4 P	2600 4200						
2500 A / B8	3 P	2600 3250	S5 type Black 2799 7042 ⁽²⁾ Red 2799 7043	V2 type Black IP65 2799 7136 ⁽²⁾ Red IP65 2799 7134	200 mm 2799 3015 320 mm 2799 3018 ⁽²⁾ 450 mm 2799 3019			3 P 2698 3200 ⁽³⁾ 4 P 2698 4200 ⁽³⁾
	4 P	2600 4250						
3200 A / B8	3 P	2600 3320						
	4 P	2600 4320						
4000 A / B9	3 P	2600 3401	V0 type Black 2799 7072 ⁽²⁾	V0 type Black IP65 2799 7155 ⁽²⁾		1 st /2 nd NO/NC contact included		
	4 P	2600 4401						
5000 A / B9	3 P	2600 3500						
	4 P	2600 4500						

(1) Device available enclosed, see "Enclosed load break switches" pages.

(2) Standard.

(3) Top or bottom.

SIRCO AC - References

Heavy duty applications - Front operation 3 & 4 pole

Rating (A) / Frame size	No. of poles	Switch body	Direct handle	External handle	Shaft for external handle	Auxiliary contact	Terminal shrouds	Terminal screens
200 A / B4	3 P	26AC 3020	J1 type Black 1112 1111 ⁽¹⁾ J1 type Red 1113 1111	S2 type Black IP65 1421 2111 ⁽¹⁾ Black IP65 1423 2111 Red IP65 1424 2111	200 mm 1400 1020 320 mm 1400 1032 ⁽¹⁾ 500 mm 1400 1050		3P 2694 3021 ⁽²⁾⁽³⁾ 4 P 2694 4021 ⁽²⁾⁽³⁾	3P 2698 3020 ⁽³⁾ 4 P 2698 4020 ⁽³⁾
	4 P	26AC 4020						
250 A / B4	3 P	26AC 3025						
	4 P	26AC 4025						
315 A / B4	3 P	26AC 3031						
	4 P	26AC 4031						
400 A / B5	3 P	26AC 3040						
	4 P	26AC 4040						
500 A / B5	3 P	26AC 3050						
	4 P	26AC 4050						
CD 630 A / B5	3 P	26AC 3063						
	4 P	26AC 4063						
630 A / B6	3 P	26AC 3064	J4 type Blue 1142 1111 ⁽¹⁾ Red 1143 1111	S4 type Black IP65 1443 3111 ⁽¹⁾ Red IP65 1444 3111	200 mm 1401 1520 320 mm 1401 1532 ⁽¹⁾ 400 mm 1401 1540	1 st contact NO/NC 2699 0031 2 nd contact NO/NC 2699 0032		3 P 2698 3080 ⁽²⁾⁽³⁾ 4 P 2698 4080 ⁽²⁾⁽³⁾
	4 P	26AC 4064						
800 A / B6	3 P	26AC 3080						
	4 P	26AC 4080						
1000 A / B6	3 P	26AC 3100						
	4 P	26AC 4100						
CD 1250 A / B6	3 P	26AC 3120						
	4 P	26AC 4120						
1250 A / B7	3 P	26AC 3121						
	4 P	26AC 4121						
1600 A / B7	3 P	26AC 3160						
	4 P	26AC 4160						
2000 A / B8	3 P	26AC 3200	S5 type Black 2799 7042 ⁽¹⁾ Red 2799 7043	S5 type Black IP65 1453 8111 ⁽¹⁾ Red IP65 1454 8111	200 mm 2799 3015 320 mm 2799 3018 ⁽¹⁾ 450 mm 2799 3019			3 P 2698 3200 ⁽²⁾⁽³⁾ 4 P 2698 4200 ⁽²⁾⁽³⁾
	4 P	26AC 4200						
4000 A / B9	3 P	consult us	V0 type Black 2799 7072 ⁽¹⁾	V0 type Black 2799 7155 ⁽¹⁾		1 st / 2 nd included		3/4P 1509 4200 ⁽⁴⁾
	4 P							

(1) Standard.

(2) Mandatory for voltage greater than 415 VAC.

(3) Top or bottom.

(4) Top and bottom.

SIRCO

Load break switches for power distribution
from 125 to 5000 A

SIRCO - References

Standard applications - Front operation - 6 & 8-pole

Rating (A) / Frame size	No. of poles	Switch body	Direct handle	External handle	Shaft for external handle	Auxiliary contact	Terminal shrouds	Terminal screens
125 A / B3 _{DS}	6 P	2601 6013	J2 type Black 1122 1111 ⁽¹⁾ Red 1123 1111	S2 type Black IP65 1421 2111 ⁽¹⁾ Red IP65 1424 2111	200 mm 1400 1020 320 mm 1400 1032 ⁽¹⁾		6 P	6 P
	8 P	2601 8013					2694 3014 ⁽²⁾⁽³⁾	1509 3012 ⁽⁴⁾
160 A / B3 _{DS}	6 P	2601 6016					8 P	8 P
	8 P	2601 8016					2694 4014 ⁽²⁾⁽³⁾	1509 4012 ⁽⁴⁾
250 A / B4 _{DS}	6 P	2601 6025					6 P	6 P
	8 P	2601 8025					2694 3021 ⁽²⁾⁽³⁾	1509 3025 ⁽⁴⁾
400 A / B5 _{DS}	6 P	2601 6040	J3 type Black 1132 1111 ⁽¹⁾ Red 1133 1111	Type S4 Black IP65 1443 3111 ⁽¹⁾ Red IP65 1444 3111	200 mm 1401 1520 320 mm 1401 1532 ⁽¹⁾		8 P	8 P
	8 P	2601 8040					2694 3051 ⁽²⁾⁽³⁾	1509 3063 ⁽⁴⁾
630 A / B5 _{DS}	6 P	2601 6063				1 st NO/NC contact 2699 0061 2 nd NO/NC contact 2699 0062	8 P	8 P
	8 P	2601 8063					2694 4051 ⁽²⁾⁽³⁾	1509 4063 ⁽⁴⁾
800 A / B6 _{DS}	6 P	2601 6080						
	8 P	2601 8080						
1000 A / B6 _{DS}	6 P	2601 6100	J4 type Blue 1142 1111 ⁽²⁾ Red 1143 1111	Type V1 Black IP65 2799 7145 ⁽¹⁾	320 mm 2799 3018 ⁽¹⁾			6 P
	8 P	2601 8100						
1250 A / B7 _{DS}	6 P	2601 6120						8 P
	8 P	2601 8120						
1600 A / B7 _{DS}	6 P	2601 6160						6 P
	8 P	2601 8160						
								8 P
								1509 4160 ⁽⁴⁾

(1) Standard.

(2) Top or bottom on the front or rear of the device.

(3) Select 2 sets for front or rear.

(4) Top or bottom at the front of the device.

Accessories

Direct operation handle

SIRCO direct operation handle				
Rating (A) / Frame size	No. of poles	Handle type	Handle colour	Reference
125 ... 160 / B3	3/4 P	J0	Black	1102 1111 ⁽¹⁾
125 ... 160 / B3	3/4 P	J0	Red	1103 1111
125 ... 160 / B3 _{DS}	6/8 P	J2	Black	1122 1111 ⁽¹⁾
125 ... 160 / B3 _{DS}	6/8 P	J2	Red	1123 1111
200 ... 630 / B4-B5	3/4 P	J1	Black	1112 1111 ⁽¹⁾
200 ... 630 / B4-B5	3/4 P	J1	Red	1113 1111
250 ... 630 / B4 _{DS} -B5 _{DS}	6/8 P	J3	Black	1132 1111 ⁽¹⁾
250 ... 630 / B4 _{DS} -B5 _{DS}	6/8 P	J3	Red	1133 1111
800 ... 1800 / B6...B7	3/4 P	J4	Blue	1142 1111 ⁽¹⁾
800 ... 1800 / B6...B7	3/4 P	J4	Red	1143 1111
800 ... 1600 / B6 _{DS} -B7 _{DS}	6/8 P	J4	Blue	1142 1111 ⁽¹⁾
800 ... 1600 / B6 _{DS} -B7 _{DS}	6/8 P	J4	Red	1143 1111
1800 ... 3200 / B8	3/4P	S5	Black	2799 7042 ⁽¹⁾
1800 ... 3200 / B8	3/4P	S5	Red	2799 7043
4000 ... 5000 / B9	3/4 P	V0	Black	2799 7072 ⁽¹⁾

(1) Standard.

SIRCO AC direct operation handle				
Rating (A) / Frame size	No. of poles	Handle type	Handle colour	Reference
200 ... CD 630 / B4 ... B5	3/4 P	J1	Black	1112 1111 ⁽¹⁾
200 ... CD 630 / B4 ... B5	3/4 P	J1	Red	1113 1111
630 ... 1600 / B6 ... B7	3/4 P	J4	Blue	1142 1111 ⁽¹⁾
630 ... 1600 / B6 ... B7	3/4 P	J4	Red	1143 1111
2000 / B8	3/4 P	S5	Black	2799 7042 ⁽¹⁾
2000 / B8	3/4 P	S5	Red	2799 7043
4000 / B9	3/4 P	V0	Black	2799 7072 ⁽¹⁾

(1) Standard.

Door interlocked external operation handle

SIRCO and SIRCO AC external front operation handle						
Rating (A) / Frame size		No. of poles	Handle type	Handle colour	External IP ⁽¹⁾	Reference
SIRCO	SIRCO AC					
125 ... 630 / B3 ... B5	200 ... CD 630 / B4 ... B5	3/4 P	S2	Black	IP55	1421 2111 ⁽²⁾
				Black	IP65	1423 2111
				Red	IP65	1424 2111
125 ... 160 / B3 _{DS}	-	6/8 P	S2	Black	IP55	1421 2111 ⁽²⁾
				Black	IP65	1423 2111
				Red	IP65	1424 2111
250 ... 630 / B4 _{DS} -B5 _{DS}	-	6/8 P	S4	Black	IP65	1443 3111
				Red	IP65	1444 3111
800 ... 1600 / B6 _{DS} -B7 _{DS}	-	6/8 P	V1	Black	IP65	2799 7145 ⁽²⁾
800 ... 1800 / B6-B7	630 ... 1600 / B6 ... B7	3/4 P	S4	Black	IP65	1443 3111 ⁽²⁾
				Red	IP65	1444 3111
2000 ... 3200 / B8	2000 / B8	3/4 P	V2	Black	IP65	2799 7136 ⁽²⁾
				Red	IP65	2799 7134
			S5	Black	IP65	1453 8111
				Red	IP65	1454 8111
4000 ... 5000 / B9	4000 / B9	3/4 P	V0	Black	IP65	2799 7155 ⁽²⁾

(1) IP: protection degree according to IEC 60529 standard.

(2) Standard.



Use

Door interlocked external operation handles include an escutcheon, are padlockable and must be utilised with an extension shaft.



SIRCO

Load break switches for power distribution
from 125 to 5000 A

Accessories (continued)

Shaft for external operation

For 3/4 pole SIRCO and SIRCO AC

Rating (A) / Frame size		Dimension X (mm)	Length (mm)	Reference
SIRCO	SIRCO AC			
125 ... 160 / B3		125 ... 250	200	1400 1020
		125 ... 300	250	1400 1025
		125 ... 370	320	1400 1032
		125 ... 550	500	1400 1050
		125 ... 850	750	1400 1075
200 ... 250 / B4	200 ... 315 / B4	135 ... 265	200	1400 1020
		135 ... 315	250	1400 1025
		135 ... 385	320	1400 1032
		135 ... 565	500	1400 1050
		135 ... 880	750	1400 1075
315 ... 630 / B5	400 ... CD 630 / B5	165 ... 295	200	1400 1020
		165 ... 345	250	1400 1025
		165 ... 415	320	1400 1032
		165 ... 595	500	1400 1050
800 ... 1800 / B6...B7	630 ... 1600 / B6 ... B7	221 ... 343	200	1401 1520
		221 ... 463	320	1401 1532
		221 ... 543	400	1401 1540
2000 ... 3200 / B8	2000 / B8	415 ... 570	200	2799 3015
		415 ... 690	320	2799 3018
		415 ... 820	450	2799 3019
4000 ... 5000 / B9	4000 / B9	550 ... 680	200	2799 3015
		651 ... 921	320	2799 3018

For 6/8-pole SIRCO

Rating (A) / Frame size	Dimension X (mm)	Length (mm)	Reference
125 ... 160 / B3 _{DS}	270 ... 436	200	1400 1020
125 ... 160 / B3 _{DS}	270 ... 556	320	1400 1032
250 ... 630 / B4 _{DS} -B5 _{DS}	221 ... 308	200	1401 1520
250 ... 630 / B4 _{DS} -B5 _{DS}	221 ... 428	320	1401 1532
250 ... 630 / B4 _{DS} -B5 _{DS}	221 ... 508	400	1401 1540

Use

Standard lengths:

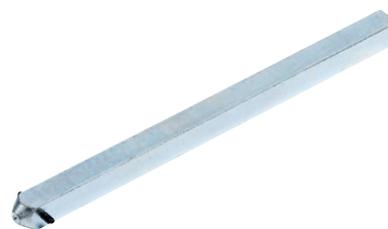
- 200 mm
- 250 mm
- 300 mm
- 400 mm
- 500 mm
- 750 mm

Other lengths available:

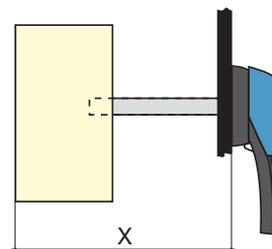
- please consult us.



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Alternative handle cover colours

Use

For S type handles.

Handle colour	To be ordered in multiples of	Handle type	Reference
Light grey	50	S2, S3	1401 0001
Dark grey	50	S2, S3	1401 0011
Light grey	50	S4	1401 0031
Dark grey	50	S4	1401 0041



access_198.eps

S type cover

S type handle adapter

Use

Adds 12 mm to the depth of the handle.

Handle colour	To be ordered in multiples of	External IP ⁽¹⁾	Reference
Black	1	IP65	1493 0000

(1) IP: protection degree according to IEC 60529 standard.



access_187.eps

Shaft guide for external operation

Use

For use with S-type handles, to guide the shaft extension into the external handle. This accessory enables the handle to engage the extension shaft with a misalignment of up to 15 mm. Recommended for shaft lengths over 320 mm.



access_260.eps

Description	Reference
Shaft guide	1429 0000

Auxiliary contact

Use

Pre-break and signalling of positions 0 and I:
- 1 to 2 NO/NC auxiliary contacts.
- 1 to 4 NO+NC auxiliary contacts.
- 1 to 2 low level NO/NC auxiliary contacts.

Characteristics

NO/NC A/C: IP2 with front operation.

Connection to the control circuit

6.35 mm fast-on terminal.

Electrical characteristics

30 000 operations.

NO/NC contact for 3/4 pole SIRCO and SIRCO AC		
Rating (A) / Frame size	Position A/C	Reference
125 ... 3200 / B3 ... B8	1 st	2699 0031
125 ... 3200 / B3 ... B8	2 nd	2699 0032
4000 ... 5000 / B9	1 st /2 nd	included

NO/NC contact for 6/8 pole SIRCO		
Rating (A) / Frame size	Position A/C	Reference
125 ... 1600 / B3 _{DS} ... B7 _{DS}	1 st	2699 0061
125 ... 1600 / B3 _{DS} ... B7 _{DS}	2 nd	2699 0062

NO+NC contact for 3/4 pole SIRCO and SIRCO AC		
Rating (A) / Frame size	Position A/C	Reference
125 ... 3200 / B3 ... B8	1 st	2699 0141
125 ... 3200 / B3 ... B8	2 nd /3 rd /4 th	2699 0142

NO/NC low level contact for 3/4 pole SIRCO and SIRCO AC		
Rating (A) / Frame size	Position A/C	Reference
125 ... 3200 / B3 ... B8	1 st	2699 0301
125 ... 3200 / B3 ... B8	2 nd	2699 0302

Characteristics

Rating (A) / Frame size	Contact type	Current nominal (A)	Operating current I _o (A)									
			230 VAC		400 VAC		24 VDC			48 VDC		
			AC-12	AC-13/15	AC-12	AC-13/15	DC-12	DC-13	DC-14	DC-12	DC-13	DC-14
125 ... 3200 / B3 ... B8	NO/NC	16	16	4	12	3	2.5	2.5	1	2.5	1.2	0.2
125 ... 3200 / B3 ... B8	NO + NC	16	16	4	16	3	16	5	1	2.5	1.2	0.2

Inter-phase barrier

Use

Safe isolation between the terminals, essential for use at 690 VAC or in a polluted or dusty atmosphere.

For 3/4 poles SIRCO and SIRCO AC

Rating (A) / Frame size	SIRCO AC	No. of poles	Reference
125 ... 160 / B3		3 P	2998 0033
125 ... 160 / B3		4 P	2998 0034
200 ... 250 / B4	200 ... 315 / B4	3 P	2998 0023
200 ... 250 / B4	200 ... 315 / B4	4 P	2998 0024
315 ... 630 / B5	315 ... CD 630 / B5	3 P	2998 0013
315 ... 630 / B5	315 ... CD 630 / B5	4 P	2998 0014
800 ... 5000 / B6 ... B9	630 ... 4000 / B6 ... B9	3 P	included
800 ... 5000 / B6 ... B9	630 ... 4000 / B6 ... B9	4 P	included



access_0036.eps

SIRCO

Load break switches for power distribution
from 125 to 5000 A

Accessories (continued)

Terminal shrouds

Use

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

Advantage

Perforations allow remote thermographic inspection without the need to remove the shrouds. The terminal shrouds also provide phase separation for SIRCO and SIRCO AC from 125 to 630 A.



access_077.eps

For 3/4 poles SIRCO and SIRCO AC

Rating (A) / Frame size	SIRCO AC	No. of poles	Position	Reference
125 ... 160 / B3		3 P	top or bottom	2694 3014 ⁽¹⁾
125 ... 160 / B3		4 P	top or bottom	2694 4014 ⁽²⁾
200 ... 250 / B4	200 ... 315 / B4	3 P	top or bottom	2694 3021 ⁽¹⁾
200 ... 250 / B4	200 ... 315 / B4	4 P	top or bottom	2694 4021 ⁽²⁾
315 ... 630 / B5	400 ... CD 630 / B5	3 P	top or bottom	2694 3051 ⁽¹⁾
315 ... 630 / B5	400 ... CD 630 / B5	4 P	top or bottom	2694 4051 ⁽²⁾

(1) Reference includes 3 parts for top or bottom protection.
(2) Reference includes 4 parts for top or bottom protection.

For 6/8-pole SIRCO

Rating (A) / Frame size	No. of poles	Position	Reference
125 ... 160 / B3 _{DS}	6 P	Top or bottom	2694 3014 ⁽¹⁾⁽³⁾
125 ... 160 / B3 _{DS}	8 P	Top or bottom	2694 4014 ⁽²⁾⁽³⁾
250 / B4 _{DS}	6 P	Top or bottom	2694 3021 ⁽¹⁾⁽³⁾
250 / B4 _{DS}	8 P	Top or bottom	2694 4021 ⁽²⁾⁽³⁾
400 ... 630 / B5 _{DS}	6 P	Top or bottom	2694 3051 ⁽¹⁾⁽³⁾
400 ... 630 / B5 _{DS}	8 P	Top or bottom	2694 4051 ⁽²⁾⁽³⁾

(1) Reference includes 3 parts for top or bottom protection on the front or rear of the device.
(2) Reference includes 4 parts for top or bottom protection on the front or rear of the device.
(3) Select 2 sets for front or rear.

Distribution block

Use

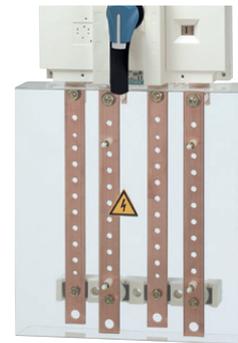
Easy connection of multiple cables, bottom of the SIRCO.

For 3/4-pole SIRCO

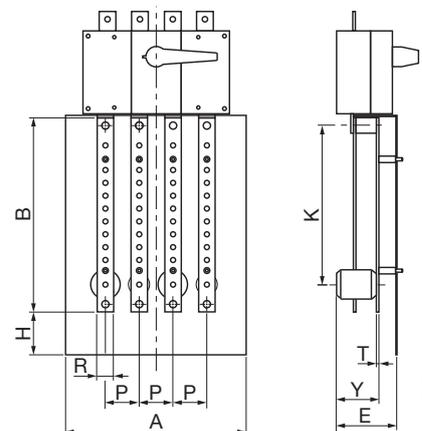
Rating (A) / Frame size	No. of poles	No. of feeders per section (mm ²)	I _{cc} (kA rms) ⁽¹⁾	Reference
160 / B3	3 P	1x95 + 8x25	10	5411 3016
160 / B3	4 P	1x95 + 8x25	10	5411 4016
250 / B4	3 P	1x150 + 8x50	15	5411 3025
250 / B4	4 P	1x150 + 8x50	15	5411 4025
400 / B5	3 P	1x240 + 8x95	21	5411 3040
400 / B5	4 P	1x240 + 8x95	21	5411 4040
630 / B5	3 P	1x300 + 8x150	21	5411 3063
630 / B5	4 P	1x300 + 8x150	21	5411 4063

Dimensions

Rating (A) / Frame size	No. of poles	A	B	T	H	K	P	R	T	Y
160 / B3	3 P	154	286	73	46.5	261.5	36	20	4	54
160 / B3	4 P	190	286	73	46.5	261.5	36	20	4	54
250 / B4	3 P	210	307	83	57.5	279	50	25	4	56
250 / B4	4 P	260	307	83	57.5	279	50	25	4	56
400 / B5	3 P	281	375	116	82.5	340	65	32	5	82
400 / B5	4 P	346	375	116	82.5	340	65	32	5	82
630 / B5	3 P	271	438	117	90.5	410.5	65	40	6	83
630 / B5	4 P	346	438	117	90.5	410.5	65	40	6	83



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Terminal screens

Use

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

For 3/4 poles SIRCO and SIRCO AC

Rating (A) / Frame size		No. of poles	Position	Reference
SIRCO	SIRCO AC			
125 ... 160 / B3		3 P	top or bottom	2698 3012
125 ... 160 / B3		4 P	top or bottom	2698 4012
200 ... 250 / B4	200 ... 315 / B4	3 P	top or bottom	2698 3020
200 ... 250 / B4	200 ... 315 / B4	4 P	top or bottom	2698 4020
315 ... 630 / B5	400 ... CD 630 / B5	3 P	top or bottom	2698 3050
315 ... 630 / B5	400 ... CD 630 / B5	4 P	top or bottom	2698 4050
800 ... CD 1250 / B6	630 ... CD 1250 / B6	3 P	top or bottom	2698 3080
800 ... CD 1250 / B6	630 ... CD 1250 / B6	4 P	top or bottom	2698 4080
1250 ... 1800 / B7	1250 ... 1600 / B7	3 P	top or bottom	2698 3120
1250 ... 1800 / B7	1250 ... 1600 / B7	4 P	top or bottom	2698 4120
2000 ... 3200 / B8	2000 / B8	3 P	top or bottom	2698 3200
2000 ... 3200 / B8	2000 / B8	4 P	top or bottom	2698 4200
4000 ... 5000 / B9	4000 / B9	3/4 P	top or bottom	1509 4200



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For 6/8-pole SIRCO

Rating (A) / Frame size	No. of poles	Position	Reference
125 ... 160 / B3 _{DS}	6 P	Top or bottom	1509 3012
125 ... 160 / B3 _{DS}	8 P	Top or bottom	1509 4012
250 / B4 _{DS}	6 P	Top or bottom	1509 3025
250 / B4 _{DS}	8 P	Top or bottom	1509 4025
400 ... 630 / B5 _{DS}	6 P	Top or bottom	1509 3063
400 ... 630 / B5 _{DS}	8 P	Top or bottom	1509 4063
800 ... 1250 / B6 _{DS} -B7 _{DS}	6 P	Top or bottom	1509 3080
800 ... 1250 / B6 _{DS} -B7 _{DS}	8 P	Top or bottom	1509 4080
1600 / B7 _{DS}	6 P	Top or bottom	1509 3160
1600 / B7 _{DS}	8 P	Top or bottom	1509 4160

Cage terminals

Use

They enable a direct terminal-free connection to rigid copper and aluminium conductors with integration under the IP2X protective cover.

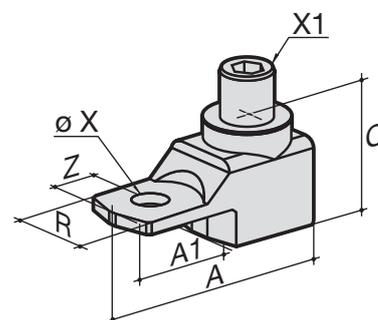
Material: tin-plated aluminium

Dimensions

Rating (A) / Frame size	A	A1	C	R	ØX	X1	Z
125 ... 160 / B3	47.5	22.5	25	20	8.5	M12	10
200 ... 250 / B4	62	31.5	31.5	25	10.5	M16	14
315 ... 400 / B5	71.5	32	38	32	10.5	M20	15
500 ... 630 / B5	76.5	37	38	40	12.5	M20	15

References

Rating (A) / Frame size	Tightening capacity (mm ²)	No. of poles	Tightening torque (Nm)	Flexible bar width (mm)	Reference
125 ... 160 / B3	16 ... 95	3 P	14	13	5400 3016
125 ... 160 / B3	16 ... 95	4 P	14	13	5400 4016
200 ... 250 / B4	16 ... 185	3 P	25	18	5400 3025
200 ... 250 / B4	16 ... 185	4 P	25	18	5400 4025
315 ... 400 / B5	50 ... 240	3 P	45	20	5400 3040
315 ... 400 / B5	50 ... 240	4 P	45	20	5400 4040
500 ... 630 / B5	70 ... 300	3 P	45	24	5400 3063
500 ... 630 / B5	70 ... 300	4 P	45	24	5400 4063



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Accessories (continued)

Copper bar connection kits

Use

To allow connection between the two power terminals of the same pole for 2000 to 3200 A ratings (Fig. 1 and Fig 2).

For 3200 A rating, the connection pieces (part A) are delivered bridged as standard.

Bolt sets must be ordered separately.

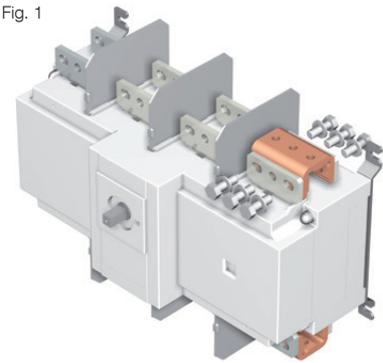
Further details for these specific accessories are available in the user guide downloadable from www.socomec.com.

Top or bottom flat connection - Fig. 1

Rating (A) / Frame size	Part	Quantity to order per pole ⁽¹⁾	Reference
2000 ... 2500 / B8	Connection - part A	1	2619 1200
2000 ... 2500 / B8	Bolt set - part B	1	2699 1200
3200 / B8	Connection - part A		included
3200 / B8	Bolt set - part B	1	2699 1200
4000 ... 5000 / B9	Standard connection		

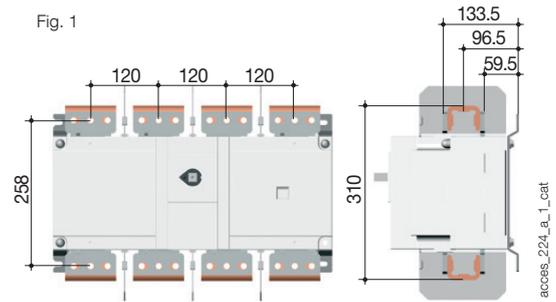
(1) Example for 3-pole device equipped top only: order 3 times the indicated quantity.

Fig. 1



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Fig. 1



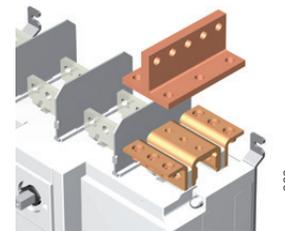
access_224_a_1_cat

Top or bottom edgewise connection - Fig. 2

Rating (A) / Frame size	Part	Quantity to order per pole ⁽¹⁾	Reference
2000 ... 2500 / B8	Connection - part A	1	2619 1200
2000 ... 2500 / B8	T piece - part C	1	2629 1200⁽²⁾
2000 ... 2500 / B8	Bracket - part D	1	2639 1200⁽²⁾
3200 / B8	Connection - part A		included
3200 / B8	T piece - part C	1	2629 1200
3200 / B8	Bracket - part D	1	2639 1200
4000 ... 5000 / B9	Standard connection		

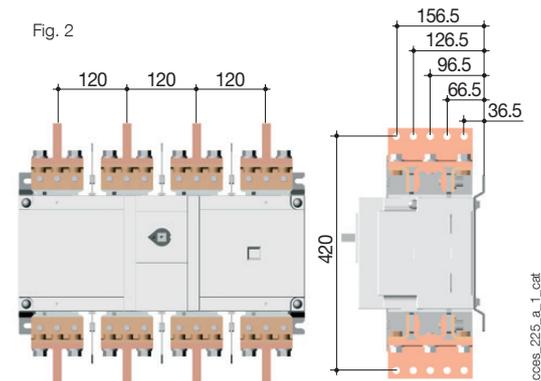
(1) Example for 3-pole device equipped top only: order 3 times the indicated quantity.
(2) Bolt set is provided with the accessories.

Fig. 2



access_222.eps

Fig. 2



access_225_a_1_cat

Key handle interlocking system

Use

Locking in position 0 of the front or side operation handle:

- using a padlock (not supplied) and standard padlocking function of the handle. From 125 to 1800 A, padlocking the external front operation handle provides door interlocking,

- using a lock (not supplied): see diagrams opposite,
- using an undervoltage coil: the SIRCO can only be closed if the coil is energised.

For 6 / 8-pole, please consult us.

For SIRCO

Locking using RONIS EL11AP lock (not supplied)

Rating (A) / Frame size	No. of poles	Operation	Figure	Reference
125 ... 630 / B3 ... B5	3/4 P	Front direct	1	2699 6008 ⁽¹⁾
125 ... 1800 / B3 ... B7	3/4 P	External front	3	1499 7701
800 ... 3200 / B6 ... B8	3/4 P	Front direct	2	2699 6027
1250 ... 5000 / B7 ... B9	3/4 P	External front	4	2799 7002

(1) Front operation handle included.

For SIRCO AC

Locking using RONIS EL11AP lock (not supplied)

Rating (A) / Frame size	No. of poles	Operation	Figure	Reference
200 ... CD 630 / B4 ... B5	3/4 P	Front direct	1	2699 6008 ⁽¹⁾
630 ... 1600 / B6 ... B7	3/4 P	Front direct	2	2699 6027

(1) The locking system is directly mounted on the device.

For SIRCO

Locking using 230 VAC undervoltage coil

(For other voltages, please contact us)

Rating (A) / Frame size	No. of poles	Operation	Reference
125 ... 630 / B3 ... B5	3/4 P	External front	2699 9063 ⁽¹⁾
800 ... 3200 / B6 ... B8	3/4 P	Front direct	2699 9315 ⁽¹⁾

(1) The locking system is directly mounted on the device.

Locking using CASTELL lock (not supplied)

Rating (A) / Frame size	No. of poles	Handle type	Lock type	Operation	Figure	Reference
125 ... 160 / B3	6/8 P	S2	K	External front	2	4109 8507
125 ... 1 800 / B3 ... B8	3/4 P	S2, S4	FS	External front	3	1499 7703
125 ... 1 800 / B3 ... B8	3/4 P	S2, S4	K	External front	3	1499 7702
250 ... 630 / B4 ... B5	6/8 P	S4	K	External front	2	2999 8707
800 ... 1 600 / B6 ... B7	6/8 P	S5	K	External front	2	2799 7003
1 250 ... 4 000 / B7 ... B9	3/4 P	S5, S0	K	External front	2	2799 7003

Fig. 1

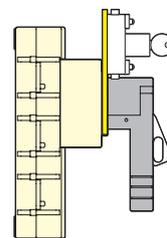


Fig. 3

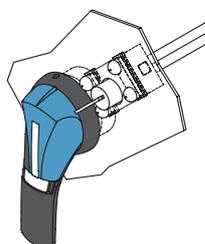


Fig. 2

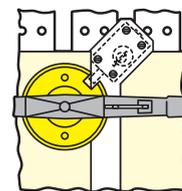
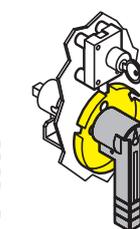


Fig. 4



Other specific accessories



- Mechanical coupling device for making switches with "n" poles of the same or different ratings
- Mechanical interlocking device

SIRCO characteristics according to IEC 60947-3

125 to 800 A

Thermal current I_{th} at 40°C	125 A	160 A	200 A	250 A	315 A	400 A	500 A	630 A	800 A
Frame size	B3	B3	B4	B4	B5	B5	B5	B5	B6
Rated insulation voltage U_i (V)	800	800	800	800	1000	1000	1000	1000	1000
Rated impulse withstand voltage U_{imp} (kV)	8	8	8	8	12	12	12	12	12

Rated operational currents I_e (A)

Rated voltage	Utilisation category	A / B ⁽¹⁾								
415 VAC	AC-20 A / AC-20 B	125 / 125	160 / 160	200 / 200	250 / 250	315 / 315	400 / 400	500 / 500	630 / 630	800 / 800
415 VAC	AC-21 A / AC-21 B	125 / 125	160 / 160	200 / 200	250 / 250	315 / 315	400 / 400	500 / 500	630 / 630	800 / 800
415 VAC	AC-22 A / AC-22 B	125 / 125	160 / 160	200 / 200	250 / 250	315 / 315	400 / 400	500 / 500	630 / 630	800 / 800
415 VAC	AC-23 A / AC-23 B	125 / 125	160 / 160	200 / 200	250 / 250	315 / 315	400 / 400	500 / 500	500 / 500	800 / 800
220 VDC	DC-20 A / DC-20 B	125 / 125	160 / 160	200 / 200	250 / 250	315 / 315	400 / 400	500 / 500	630 / 630	800 / 800
220 VDC	DC-21 A / DC-21 B	125 / 125	160 / 160	160 / 200	250 / 250	315 / 315	400 / 400	500 / 500	630 / 630	800 / 800
220 VDC	DC-22 A / DC-22 B	125 / 125	160 / 160	160 / 200	250 / 250	315 / 315	400 / 400	400 / 500	500 / 500	800 / 800
220 VDC	DC-23 A / DC-23 B	125 / 125	125 / 125	160 / 160	200 / 200	315 / 315	400 / 400	400 / 400	500 / 500	800 / 800
440 VDC	DC-20 A / DC-20 B	125 / 125	160 / 160	200 / 200	250 / 250	315 / 315	400 / 400	500 / 500	630 / 630	800 / 800
440 VDC	DC-21 A / DC-21 B	125 ⁽²⁾ / 125 ⁽²⁾	160 ⁽²⁾ / 160 ⁽²⁾	160 ⁽²⁾ / 200 ⁽²⁾	200 ⁽²⁾ / 200 ⁽²⁾	315 ⁽²⁾ / 315 ⁽²⁾	400 ⁽²⁾ / 400 ⁽²⁾	400 ⁽²⁾ / 400 ⁽²⁾	500 ⁽²⁾ / 500 ⁽²⁾	800 ⁽³⁾ / 800 ⁽³⁾
440 VDC	DC-22 A / DC-22 B	125 ⁽²⁾ / 125 ⁽²⁾	125 ⁽²⁾ / 125 ⁽²⁾	160 ⁽²⁾ / 160 ⁽²⁾	200 ⁽²⁾ / 200 ⁽²⁾	315 ⁽²⁾ / 315 ⁽²⁾	400 ⁽²⁾ / 400 ⁽²⁾	400 ⁽²⁾ / 400 ⁽²⁾	500 ⁽²⁾ / 500 ⁽²⁾	800 ⁽³⁾ / 800 ⁽³⁾
440 VDC	DC-23 A / DC-23 B	125 ⁽³⁾ / 125 ⁽³⁾	125 ⁽³⁾ / 125 ⁽³⁾	160 ⁽³⁾ / 160 ⁽³⁾	200 ⁽³⁾ / 200 ⁽³⁾	315 ⁽³⁾ / 315 ⁽³⁾	400 ⁽³⁾ / 400 ⁽³⁾	400 ⁽³⁾ / 400 ⁽³⁾	500 / 500	800 ⁽³⁾ / 800 ⁽³⁾
500 VDC	DC-20 A / DC-20 B	125 / 125	160 / 160	200 / 200	250 / 250	315 / 315	400 / 400	500 / 500	630 / 630	800 / 800
500 VDC	DC-21 A / DC-21 B	125 ⁽²⁾ / 125 ⁽²⁾	125 ⁽²⁾ / 125 ⁽²⁾	160 ⁽²⁾ / 200 ⁽²⁾	200 ⁽²⁾ / 200 ⁽²⁾	315 ⁽²⁾ / 315 ⁽²⁾	400 ⁽²⁾ / 400 ⁽²⁾	400 ⁽²⁾ / 400 ⁽²⁾	500 ⁽²⁾ / 500 ⁽²⁾	800 ⁽³⁾ / 800 ⁽³⁾
500 VDC	DC-22 A / DC-22 B	125 ⁽³⁾ / 125 ⁽³⁾	125 ⁽³⁾ / 125 ⁽³⁾	160 ⁽³⁾ / 160 ⁽³⁾	200 ⁽³⁾ / 200 ⁽³⁾	315 ⁽³⁾ / 315 ⁽³⁾	315 ⁽³⁾ / 400 ⁽³⁾	315 ⁽³⁾ / 400 ⁽³⁾	500 ⁽³⁾ / 500 ⁽³⁾	800 ⁽³⁾ / 800 ⁽³⁾
500 VDC	DC-23 A / DC-23 B	125 ⁽³⁾ / 125 ⁽³⁾	125 ⁽³⁾ / 125 ⁽³⁾	160 ⁽³⁾ / 160 ⁽³⁾	200 ⁽³⁾ / 200 ⁽³⁾	315 ⁽³⁾ / 315 ⁽³⁾	315 ⁽³⁾ / 400 ⁽³⁾	315 ⁽³⁾ / 400 ⁽³⁾	500 ⁽³⁾ / 500 ⁽³⁾	800 ⁽³⁾ / 800 ⁽³⁾

Operational power in AC-23 (kW)⁽¹⁾⁽⁴⁾

At 415 VAC without AC pre-break ⁽¹⁾	63 / 63	80 / 80	100 / 100	132 / 132	160 / 160	220 / 220	280 / 280	280 / 280	450 / 450
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Reactive power (kvar)

At 400 VAC (kvar) ⁽⁴⁾	55	75	90	115	145	185	230	290	365
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gG DIN fuse protected short-circuit withstand (kA rms prospective)⁽⁵⁾

Prospective short-circuit current (kA rms)	100	100	80	50	100	100	100	70	50
Associated fuse rating (A)	125	160	200	250	315	400	500	630	800

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_{sw} (kA rms)	15	15	17	17	25	25	25	25	50
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Short-circuit operation (switch only)

Rated short-time withstand current I_{sw} 1s (kA rms)	7	7	9	9	13	13	13	13	26
Rated peak withstand current in I_{cc} (kA peak) ⁽⁵⁾⁽⁶⁾	20	20	30	30	45	45	45	45	55

Connection

Minimum Cu cable cross-section (mm ²)	35	50	70	95	150	185	240	2 x 150	2 x 185
Minimum Cu busbar cross-section (mm ²)								2 x 30 x 5	2 x 40 x 5
Maximum Cu cable cross-section (mm ²)	50	95	95	150	240	240	240	2 x 300	2 x 300
Maximum Cu busbar width (mm)	25	25	32	32	40	40	40	50	63
Tightening torque min/max (Nm)	9 / -	9 / -	20 / -	20 / -	20 / -	20 / -	20 / -	40 / 45	40 / 45

Mechanical characteristics

Durability (number of operating cycles)	10000	10000	10000	10000	10000	10000	10000	10000	3000
Operating effort (Nm)	6.5	6.5	10	10	14.5	14.5	14.5	14.5	37
Weight of a 3-pole device (kg)	1	1.5	2	2	3.5	3.5	3.5	3.5	8
Weight of a 4-pole device (kg)	1.5	1.5	2	2	4	4	4.5	4.5	10

(1) Category with index A = frequent operation - Category with index B = infrequent operation.

(2) 3-pole device with 2 poles in series for the '+' and 1 pole for the '-'.

(3) 4-pole device with 2 poles in series per polarity.

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

(5) For a rated operational voltage $U_e = 415$ VAC.

(6) Coordination tables with circuit breaker: please consult us.

SIRCO characteristics according to IEC 60947-3

1000 to 5000 A

Thermal current I_{th} at 40°C	1000 A	CD 1250 A	1250 A	1600 A	1800 A	2000 A	2500 A	3200 A	4000 A	5000 A
Frame size	B6	B6	B7	B7	B7	B8	B8	B8	B9	B9
Rated insulation voltage U_i (V)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Rated impulse withstand voltage U_{imp} (kV)	12	12	12	12	12	12	12	12	12	12

Rated operational currents I_b (A)

Rated voltage	Utilisation category	A/B ⁽¹⁾									
415 VAC	AC-20 A / AC-20 B	1000 / 1000	1250 / 1250	1250 / 1250	1600 / 1600	1800 / 1800	2000 / 2000	2500 / 2500	3200 / 3200	4000 / 4000	5000 / 5000
415 VAC	AC-21 A / AC-21 B	1000 / 1000	1250 / 1250	1250 / 1250	1600 / 1600	1800 / 1800	2000 / 2000	2500 / 2500	3200 / 3200	4000 / 4000	5000 / 5000
415 VAC	AC-22 A / AC-22 B	1000 / 1000	1250 / 1250	1250 / 1250	1600 / 1600	1800 / 1800	2000 / 2000	2500 / 2500	2500 / 3200	2500 / 3200	2500 / 3200
415 VAC	AC-23 A / AC-23 B	1000 / 1000	1250 / 1250	1250 / 1250	1250 / 1250	1250 / 1250	1600 / 1600	1600 / 1600	1600 / 1600	1800 / 2000	1800 / 2000
220 VDC	DC-20 A / DC-20 B	1000 / 1000	1250 / 1250	1250 / 1250	1600 / 1600	1800 / 1800	2000 / 2000	2500 / 2500	3200 / 3200	4000 / 4000	5000 / 5000
220 VDC	DC-21 A / DC-21 B	1000 / 1000	1250 / 1250	1250 / 1250	1250 / 1600	1250 / 1600	2000 / 2000	2000 / 2500	2500 / 3200	2500 / 3200	2500 / 3200
220 VDC	DC-22 A / DC-22 B	1000 / 1000	1250 / 1250	1250 / 1250	1250 / 1250	1250 / 1250	1250 / 1600	1250 / 1600	1250 / 1600	1800 / 2000	1800 / 2000
220 VDC	DC-23 A / DC-23 B	1000 / 1000	1250 / 1250	1250 / 1250	1250 / 1250	1250 / 1250	1250 / 1250	1250 / 1250	1250 / 1250	1250 / 1600	1250 / 1600
440 VDC	DC-20 A / DC-20 B	1000 / 1000	1250 / 1250	1250 / 1250	1600 / 1600	1800 / 1800	2000 / 2000	2500 / 2500	3200 / 3200	4000 / 4000	5000 / 5000
440 VDC	DC-21 A / DC-21 B	1000 ⁽²⁾ / 1000 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1250 ⁽²⁾ / 1600 ⁽²⁾	1250 ⁽²⁾ / 1600 ⁽²⁾	2000 ⁽²⁾ / 2000 ⁽²⁾	2000 ⁽²⁾ / 2500 ⁽²⁾	2500 ⁽²⁾ / 3200 ⁽²⁾	3200 ⁽²⁾ / 4000 ⁽²⁾	3200 ⁽²⁾ / 5000 ⁽²⁾
440 VDC	DC-22 A / DC-22 B	1000 ⁽²⁾ / 1000 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1600 ⁽²⁾ / 1800 ⁽²⁾	1600 ⁽²⁾ / 1800 ⁽²⁾						
440 VDC	DC-23 A / DC-23 B	1000 ⁽²⁾ / 1000 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾								
500 VDC	DC-20 A / DC-20 B	1000 / 1000	1250 / 1250	1250 / 1250	1600 / 1600	1800 / 1800	2000 / 2000	2500 / 2500	3250 / 3250	4000 / 4000	5000 / 5000
500 VDC	DC-21 A / DC-21 B	1000 ⁽²⁾ / 1000 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1250 ⁽²⁾ / 1600 ⁽²⁾	1250 ⁽²⁾ / 1600 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1600 ⁽²⁾ / 1800 ⁽²⁾	1600 ⁽²⁾ / 1800 ⁽²⁾
500 VDC	DC-22 A / DC-22 B	1000 ⁽²⁾ / 1000 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1250 ⁽²⁾ / 1600 ⁽²⁾	1250 ⁽²⁾ / 1600 ⁽²⁾						
500 VDC	DC-23 A / DC-23 B	1000 ⁽²⁾ / 1000 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1000 ⁽²⁾ / 1000 ⁽²⁾							

Operational power in AC-23 (kW)⁽¹⁾⁽³⁾

At 415 VAC without AC pre-break ⁽¹⁾	560 / 560	710 / 710	710 / 710	710 / 710	710 / 710	710 / 710	710 / 710	710 / 710	710 / 710	710 / 710	710 / 710
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Reactive power (kvar)

At 400 VAC (kvar) ⁽³⁾	460										
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gG DIN fuse protected short-circuit withstand (kA rms prospective)⁽⁴⁾

Prospective short-circuit current (kA rms)	100	100	100	100	100	100	100				
Associated fuse rating (A)	1000	1250	1250	2 x 800	2 x 800	2 x 1000	2 x 1250				

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)	65	65	100	100	100	100	100	100			
--	----	----	-----	-----	-----	-----	-----	-----	--	--	--

Short-circuit operation (switch only)

Rated short-time withstand current I_{cw} 1s (kA rms)	35	35	50	50	50	50	50	50	75	75	
Rated peak withstand current in I_{cc} (kA peak) ⁽⁴⁾⁽⁵⁾	80	80	110	110	110	110	110	110	120	165	165

Connection

Minimum Cu cable cross-section (mm ²)	2 x 240										
Minimum Cu busbar cross-section (mm ²)	2 x 50 x 5	2 x 60 x 5	2 x 60 x 5	2 x 80 x 5	3 x 100 x 5	3 x 100 x 5	4 x 100 x 5	4 x 100 x 5	2 x 200 x 10	2 x 200 x 10	
Maximum Cu cable cross-section (mm ²)	4 x 185	4 x 185	4 x 185	6 x 185	6 x 185						
Maximum Cu busbar width (mm)	63	63	100	100	100	100	100	100			
Tightening torque min/max (Nm)	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/-	40/-	40/-	40/-

Mechanical characteristics

Durability (number of operating cycles)	3000	3000	4000	4000	4000	3000	3000	3000	2000	2000	
Operating effort (Nm)	37	37	56	56	56	75	75	75	105	105	
Weight of a 3-pole device (kg)	8	8	12	12	12	22	22	22	45	45	
Weight of a 4-pole device (kg)	10	10	15	15	15	25	25	25	50	50	

(1) Category with index A = frequent operation - Category with index B = infrequent operation..

(2) 4-pole device with 2 poles in series per polarity.

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

(4) For a rated operational voltage $U_o = 415$ VAC.

(5) Coordination tables with circuit breaker: please consult us.

SIRCO AC characteristics according to IEC 60947-3

200 to 630 A

Thermal current I_{th} at 40°C	200 A	250 A	315 A	400 A	500 A	CD 630 A	630 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_e (A)							
Rated voltage	Utilisation category	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾
500 VAC	AC-20 A / AC-20 B	200/200	250/250	315/315	400/400	500/500	630/630
500 VAC	AC-21 A / AC-21 B	200/200	250/250	315/315	400/400	500/500	630/630
500 VAC	AC-22 A / AC-22 B	200/200	250/250	315/315	400/400	500/500	630/630
500 VAC	AC-23 A / AC-23 B	200/200	250/250	315/315	400/400	500/500	630/630
690 VAC	AC-20 A / AC-20 B	200/200	250/250	315/315	400/400	500/500	630/630
690 VAC	AC-21 A / AC-21 B	200/200	250/250	315/315	400 ⁽²⁾ /400 ⁽²⁾	500 ⁽²⁾ /500 ⁽²⁾	630 ⁽²⁾ /630 ⁽²⁾
690 VAC	AC-22 A / AC-22 B	200/200	250/250	315/315	400 ⁽²⁾ /400 ⁽²⁾	500 ⁽²⁾ /500 ⁽²⁾	630 ⁽²⁾ /630 ⁽²⁾
690 VAC	AC-23 A / AC-23 B	200/200	250/250	315/315	400 ⁽²⁾ /400 ⁽²⁾	500 ⁽²⁾ /500 ⁽²⁾	630 ⁽²⁾ /630 ⁽²⁾
Operational power in AC-23 A (kW) ⁽³⁾							
At 690 VAC without pre-break AC		160	220	250	400	500	630
Reactive power (kvar)							
At 690 VAC (kvar)		160	190	250	325	400	450
Fuse protected short-circuit withstand (kA rms prospective) at 690 VAC ⁽⁴⁾							
Prospective short-circuit current (kA rms)		50	50	50	50	50	50
Associated fuse rating (A)		200	250	315	400	500	630
Circuit breaker protected short-circuit withstand with any circuit breaker that ensures tripping in less than 0.3s at 690 VAC							
Rated short-time withstand current 0.3s. I_{cw} (kA rms)		15	15	15	15	15	28
Short-circuit capacity (without protection)							
Rated short-time withstand current 1s. I_{cw} (kA rms)		8	8	8	11	11	20
Rated short-circuit making capacity without fuses I_{cm} (prospective kA peak)		22	22	22	22	22	40
Connection							
Minimum Cu cable cross-section (mm ²)		70	70	70	185	240	2 x 150
Minimum Cu busbar cross-section (mm ²)							2 x 30 x 5
Maximum Cu cable cross-section (mm ²)		95	95	95	240	240	2 x 300
Maximum Cu busbar width (mm)		32	32	32	40	40	63
Tightening torque min/max (Nm)		20/-	20/-	20/-	20/-	20/-	20/-
Mechanical characteristics							
Durability (number of operating cycles)		10000	10000	10000	5000	5000	5000
Operating effort (Nm)		10	10	10	14.5	14.5	14.5
Weight of a 3 pole device (kg)		2	2	2	3.5	3.5	3.5
Weight of a 4 pole device (kg)		2	2	2	4	4	4

(1) Category with index A = frequent operation - Category with index B = infrequent operation.

(2) With terminal shrouds or phase barrier.

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

(4) For a rated operational voltage $U_n = 690$ VAC.

SIRCO AC characteristics according to IEC 60947-3

800 to 4000 A

Thermal current I_{th} at 40°C	800 A	1000A	CD 1250 A	1250 A	1600 A	2000 A	4000 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_e (A)							
Rated voltage	Utilisation category	A/B ⁽¹⁾					
500 VAC	AC-20 A / AC-20 B	800/800	1000/1000	1250/1250	1250/1250	1600/1600	2000/2000
500 VAC	AC-21 A / AC-21 B	800/800	1000/1000	1250/1250	1250/1250	1600/1600	2000/2000
500 VAC	AC-22 A / AC-22 B	800/800	1000/1000	1250/1250	1250/1250	1600/1600	2000/2000
500 VAC	AC-23 A / AC-23 B	800/800	1000/1000	1250/1250	1250/1250	1600/1600	2000/2000
690 VAC	AC-20 A / AC-20 B	800/800	1000/1000	1250/1250	1250/1250	1600/1600	2000/2000
690 VAC	AC-21 A / AC-21 B	800/800	1000/1000	1250/1250	1250/1250	1600/1600	2000/2000
690 VAC	AC-22 A / AC-22 B	800/800	1000/1000	1250/1250	1250/1250	1600/1600	2000/2000
690 VAC	AC-23 A / AC-23 B	800/800	1000/1000	1250/1250	1250/1250	1600/1600	2000/2000
Operational power in AC-23 A (kW) ⁽³⁾							
At 690 VAC without pre-break AC	900	900	-	-	-	-	-
Reactive power (kvar)							
At 690 VAC (kvar)	550	750	950	950	-	-	-
Fuse protected short-circuit withstand (kA rms prospective) at 690 VAC ⁽⁴⁾							
Prospective short-circuit current (kA rms)	50	50	50	50	50	-	-
Associated fuse rating (A)	800	800	2 x 500	1250	2 x 800	-	-
Circuit breaker protected short-circuit withstand with any circuit breaker that ensures tripping in less than 0.3s at 690 VAC							
Rated short-time withstand current 0.3s. I_{cw} (kA rms)	28	55	55	53	53	53	53
Short-circuit capacity (without protection) at 690 VDC							
Rated short-time withstand current 1s. I_{cw} (kA rms)	20	30	30	35	35	35	35
Rated short-circuit making capacity without fuses I_{cm} (prospective kA peak)	40	80	80	75	75	75	75
Connection							
Minimum Cu cable cross-section (mm ²)	2 x 185	2 x 240					
Minimum Cu busbar cross-section (mm ²)	2 x 40 x 5	2 x 50 x 5	2 x 60 x 5	2 x 60 x 5	2 x 80 x 5	3 x 100 x 5	1 x 100 x 5
Maximum Cu cable cross-section (mm ²)	2 x 300	4 x 185	4 x 185	4 x 185	6 x 185		
Maximum Cu busbar width (mm)	63	63	63	100	100	100	
Tightening torque min/max (Nm)	40/45	40/45	40/45	40	40	40	40
Mechanical characteristics							
Durability (number of operating cycles)	4000	4000	3000	4000	4000	3000	2000
Operating effort (Nm)	48	48	48	55	55	75	100
Weight of a 3 pole device (kg)	8	8	8	12	12	22	45
Weight of a 4 pole device (kg)	10	10	10	15	15	25	50

(1) Category with index A = frequent operation - Category with index B = infrequent operation.

(2) With terminal shrouds or phase barrier.

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

(4) For a rated operational voltage $U_e = 690$ VAC.

SIRCO

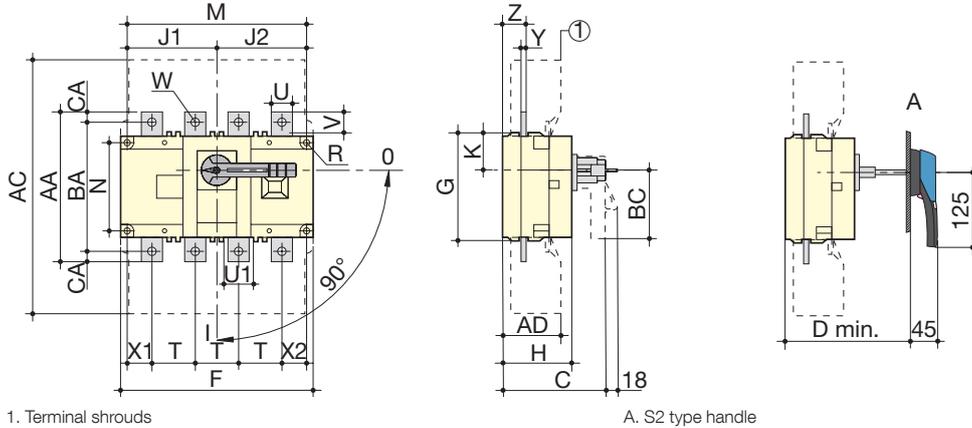
Load break switches for power distribution
from 125 to 5000 A

Dimensions - Front operation

SIRCO 125 to 630 A and SIRCO AC 200 to CD 630 A - B3 to B5

Direct front operation

External front operation



1. Terminal shrouds

A. S2 type handle

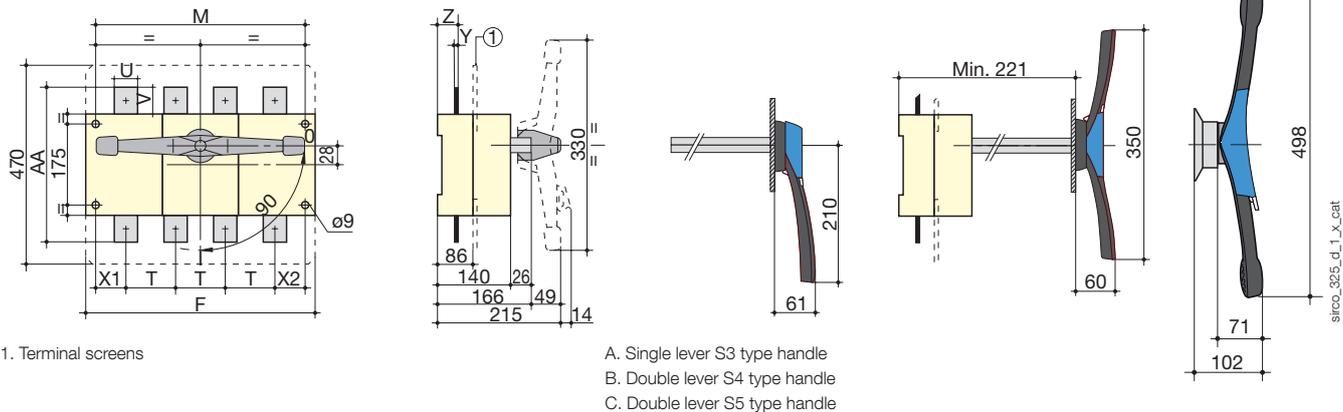
sirco_198_L1_x_cat

Rating (A) / Frame size		Overall dimensions		Terminal shrouds		Switch body						Switch mounting				Connection																	
SIRCO	SIRCO AC	C	D min	AC	AD	F 3p.	F 4p.	G	H	J1 3p.	J1 4p.	J2	K	BC	M 3p.	M 4p.	N	R	T	U	U1	V	W	X1 3p.	X1 4p.	X2	Y	Z	AA	BA	CA		
125...160 / B3		115	125	235	50	140	170	93	65	45	75	75	31.5	80	120	150	65	5.5	36	20	20.5	25	9	28	22	20	3.5	20.5	135	115	10		
200...250 / B4	200...250 / B4			280	60	180	230	108	75	55	105	105	34	115	160	210	80	5.5	50		25	25.5	21.5	11	33	33	27	3.5	22.5	170	130	15	
315...400 / B5	400...500 / B5	160	165	401	89	230	290	170	110	75	135	135	55	115	210	270	140	7	65		32	45.5	29	11	42.5	37.5	37.5	5	36	235	205	15	
500 / B5	-																																
630 / B5	CD 630 / B5																																

SIRCO 800 to 1800 A and SIRCO AC 630 to 1600 A - B6 to B7

Direct front operation

External front operation



1. Terminal screens

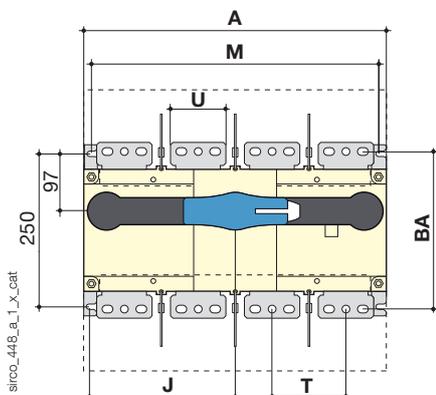
A. Single lever S3 type handle
B. Double lever S4 type handle
C. Double lever S5 type handle

sirco_325_d_1_x_cat

Rating (A) / Frame size		Switch body		Switch mounting		Connection									
SIRCO	SIRCO AC	F 3p.	F 4p.	M 3p.	M 4p.	T	U	V	Y	X1	X2	Z	AA		
800 ... 1000 / B6	630 ... 1000 / B6	280	360	255	335	80	50	60.5	7	47.5	47.5	46.5	321		
CD 1250 / B6	CD 1250 / B6						60	65					330		
1250 ... 1800 / B7	1250 ... 1600 / B7	372	492	347	467	120	90	44	8	53.5	53.5	47.5	288		

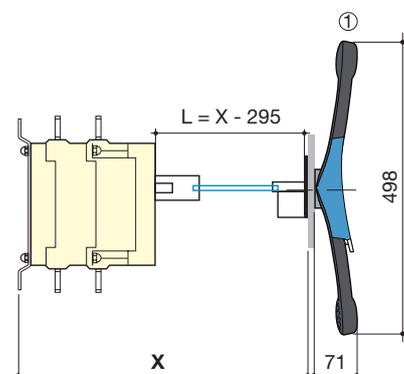
SIRCO 2000 to 3200 A and SIRCO AC 2000 A - B8

Direct front operation



sirco_448_a_1_x_cat

External front operation

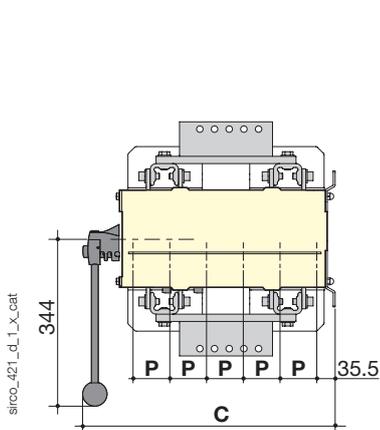


1. Double lever S5 type handle

Rating (A) / Frame size		Overall dimensions		Switch body		Switch mounting		Connection			
SIRCO	SIRCO AC	A 3p.	A 4p.	J 3p.	J 4p.	M 3p.	M 4p.	T	U	Y	BA
2000 ... 3200 / B8	2000 / B8	372	492	173.5	233.5	347	367	120	90	8	258

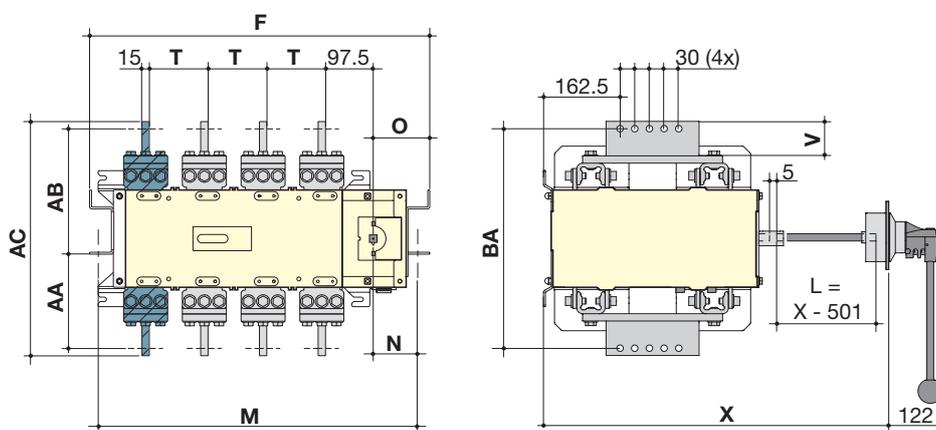
SIRCO 4000 to 5000 A and SIRCO AC 4000 A - B9

Direct front operation



sirco_421_cd_1_x_cat

External front operation



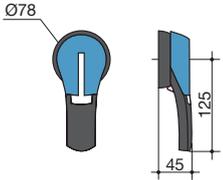
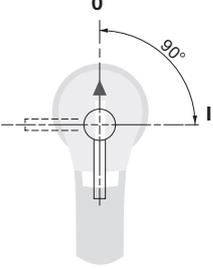
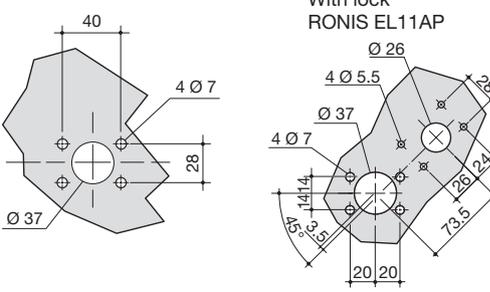
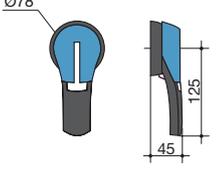
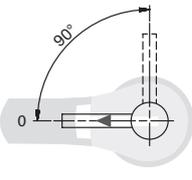
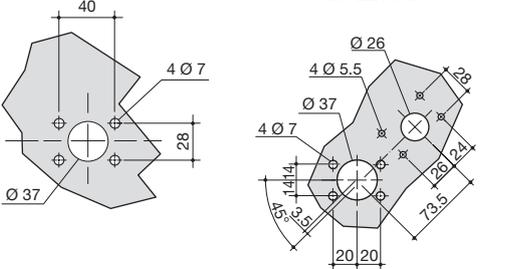
Rating (A) / Frame size		Overall dimensions	Switch body		Switch mounting					Connection					
SIRCO	SIRCO AC	C	F 3p.	F 4p.	M 3p.	M 4p.	N	O	P	T	V	AA	AB	AC	BA
4000 ... 5000 / B9	4000 / B9	514	695	695	660	660	98	115.5	75	120	86	160	292	482	452

SIRCO

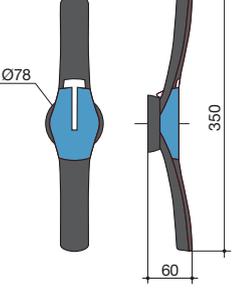
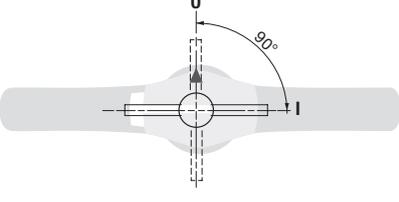
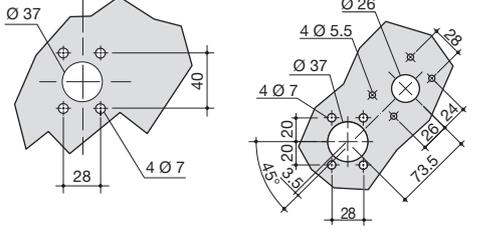
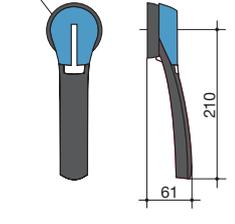
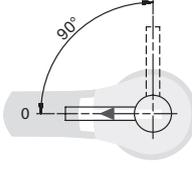
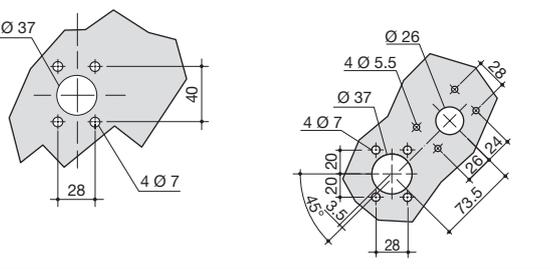
Load break switches for power distribution
from 125 to 5000 A

Dimensions for external handles

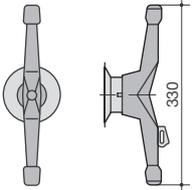
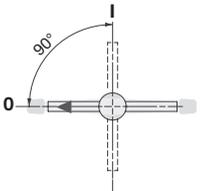
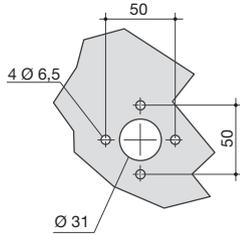
B3 to B5

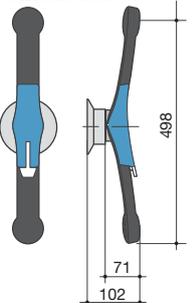
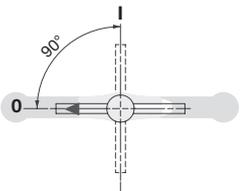
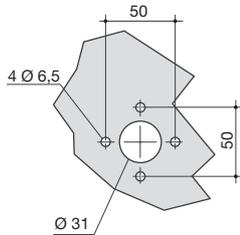
Handle type	Front operation Direction of operation	Door drilling
S2 type 		
S2 type 	Side operation Right side operation 	

B6 - B7

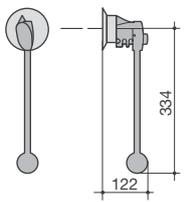
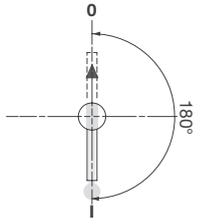
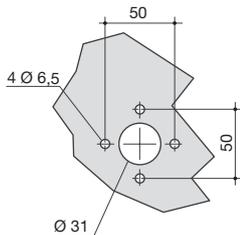
Handle type	Front operation Direction of operation	Door drilling
S4 type 		
S3 type 	Side operation Right side operation 	

B7 - B8

Handle type	Front operation Direction of operation	Door drilling
V2 Type 		

Handle type	Front operation Direction of operation	Door drilling
S5 type with V Escutcheon 		

B9

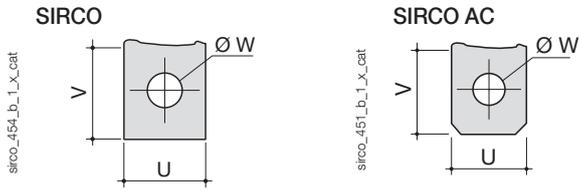
Handle type	Front operation Direction of operation	Door drilling
V0 type 		

SIRCO

Load break switches for power distribution
from 125 to 5000 A

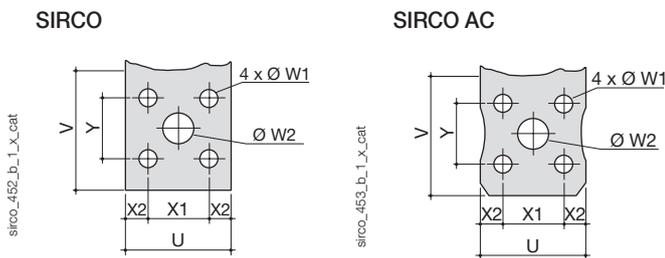
Connection terminal

SIRCO 125 to 630 A and SIRCO AC 200 to CD 630 A



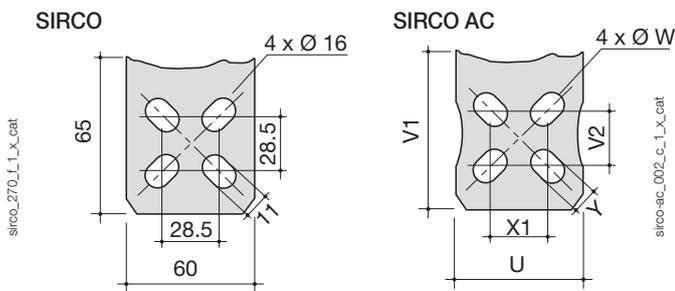
Rating (A)				
SIRCO	SIRCO AC	U	V	W
125 ... 160		20	25	9
200 ... 250	200 ... 250	25	21.5	11
	315	35		
315 ... 400	400 ... 500	32	29	13
500		45	41.5	
630	CD 630			

SIRCO 800 to 1000 A and SIRCO AC 630 to 1000 A



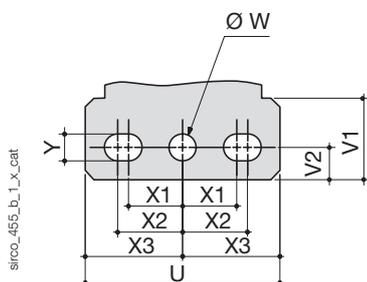
Rating (A)								
SIRCO	SIRCO AC	U	V	W1	W2	X1	X2	Y
800 ... 1000	630 ... 1000	50	60.5	9	15	33	8.5	33

SIRCO and SIRCO AC CD 1250 A



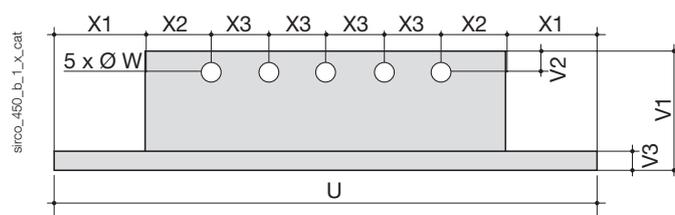
Rating (A)							
SIRCO	SIRCO AC	U	V1	V2	W	X1	Y
CD 1250 A	CD 1250 A	60	65	28.5	16	28.5	11

SIRCO 1250 to 3200 A and SIRCO AC 1250 to 1600 A

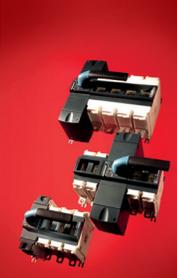


Rating (A)		U	V1	V2	W	X1	X2	X3	Y
SIRCO	SIRCO AC								
1250 ... 3200	1250 ... 1600	90	35.8	15	12.5	25	30	45	12.5

SIRCO 4000 to 5000 A and SIRCO AC 4000 A



Rating (A)		U	W	X1	X2	X3	V1	V2	V3
SIRCO	SIRCO AC								
4000 ... 5000	4000	286	13	48	35	30	86	15	15



SIRCO MC PV UL 508I

Load break switches for photovoltaic applications
from 25 to 45 A, up to 1000 VDC



SIRCO MC PV 25 A - 1000 VDC
DIN-rail mounting

Function

SIRCO MC PV are DC non-fusible disconnect switches. They make and break under load conditions and provide optimum safe isolation for any PV circuit.

Advantages

Compact

Thanks to its compact design, the space needed within the combiner box or the solar inverter is greatly reduced.

High breaking capacity up to 1000 VDC

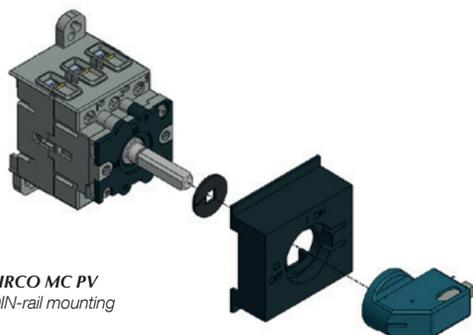
- Making and breaking capacity under load conditions up to 1000 VDC.
- Specific photovoltaic test beyond requirements of UL 508I and IEC 60947-3 standard.

Safety

- Bridging bars are factory fitted for easier, quicker and safer connection.
- Direct access to connection terminals for adequate tightening.

sirco-mc_0028_a

SIRCO MC PV
DIN-rail mounting



The solution for

- > Residential
- > Buildings
- > Solar parks



Strong points

- > Compact
- > High breaking capacity up to 1000 VDC
- > Safety

Conformity to standards

- > UL 508I Guide NMSJ, file E365404



- > IEC 60947-3



Approvals and certifications⁽¹⁾



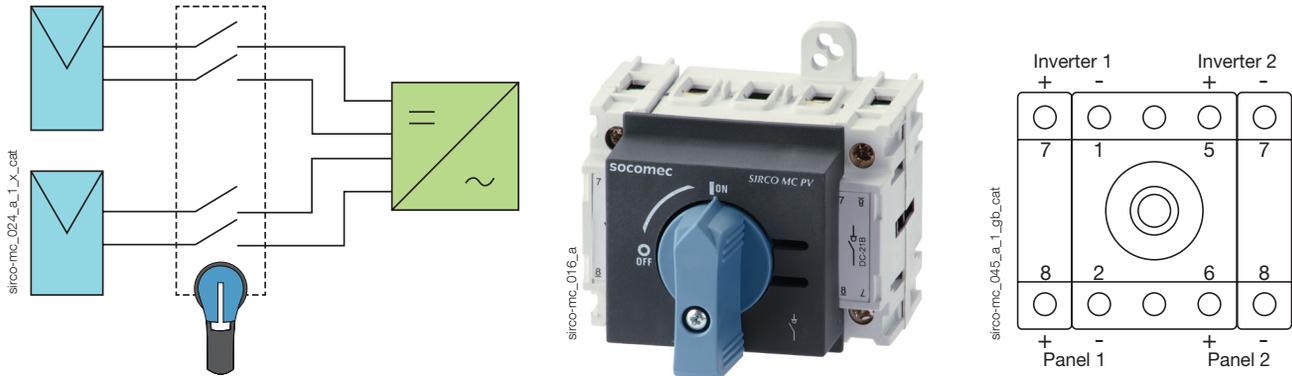
⁽¹⁾ Product reference on request.

SIRCO MC PV UL 508I

Load break switches for photovoltaic applications
from 25 to 45 A, up to 1000 VDC

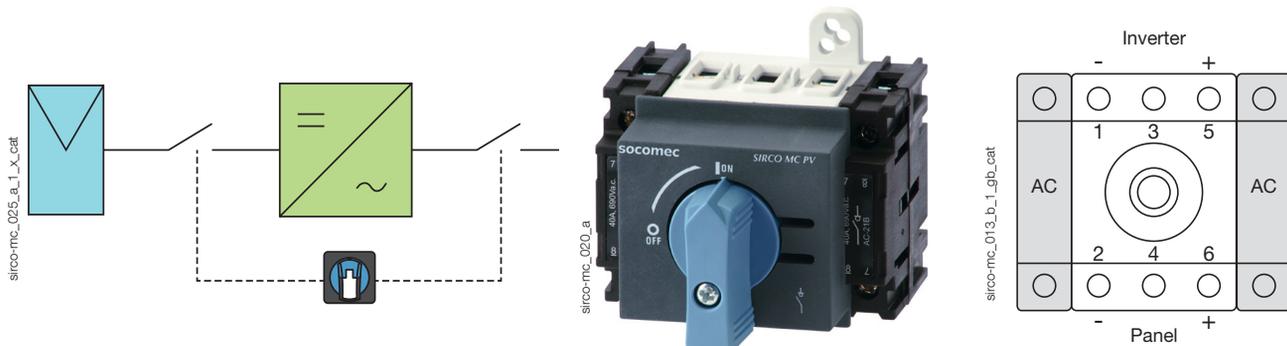
Multi-circuit switching

- The SIRCO MC PV for dual circuits (2 MPPT: Maximum Power Point Tracking) enables connection of two independent photovoltaic circuits to a single switch in order to reduce the costs of the global solution.



Completely isolate the inverter within one operation

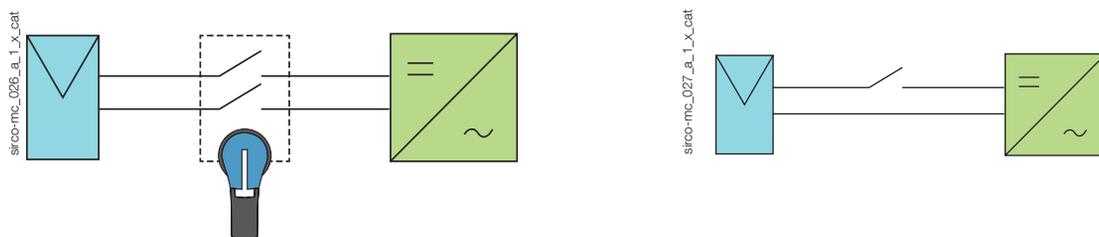
- The SIRCO MC PV with two additional AC poles can be integrated into the inverter to provide complete and simultaneous isolation of the PV and AC circuits. This improves safety and reduces the overall product size.



What you need to know

For grounded or ungrounded networks:

It is possible to use the SIRCO MC PV in both network systems, either switching one or both polarities.



SIRCO MC PV UL 508I

Load break switches for photovoltaic applications
from 25 to 45 A, up to 1000 VDC

References

600 VDC

Rating (A)	Circuit type	No. of poles	Switch body	Direct handle	External handle	Shaft for external handle	Auxiliary contact
25 A	Single PV circuit	2 P	21PV 2102-UL	MC01 type Blue 2119 1012	S00 type Black 4.4X 147D 0111 ⁽¹⁾	S00 type 265 mm 10.43 in 2107 0517	1 contact NC+NO 2119 0001
	Dual PV circuit	4 P	21PV 5102-UL				
45 A	Single PV circuit	4 P	21PV 4144	MC01 type Blue 2119 1412	Red 4.4X 147R 0111 ⁽¹⁾		
	Dual PV circuit	8 P	21PV 8144				

(1) Door interlocking.

1000 VDC

Rating (A)	Circuit type	No. of poles	Switch body	Direct handle	External handle	Shaft for external handle	Auxiliary contact
32 A	Single PV circuit	4 P	21PV 4144	MC01 type Black 2119 1012	S00 type Black 4.4X 147D 0111 ⁽¹⁾	S00 type 265 mm 10.43 in 2107 0517	1 contact NC+NO 2119 0001
	Dual PV circuit	8 P	21PV 8144	MC01 type Black 2119 1412			

(1) Door interlocking.

Accessories

Direct operation handle

Use

The direct operation conversion kit requires an additional 4 mm distance on each side of the 2 and 3 pole device.

Rating (A)	Handle color	Type of locking	Handle type	45 mm modular DIN front plate	Reference
25 ... 45	Blue	-	MC0	yes	2119 0012 ⁽¹⁾
25 ... 45	Blue	1 padlock Ø 5 mm / 0.20 in	MC01	yes	2119 1012

(1) Standard handle.

2 MPPT 600 V					
Rating (A)	Handle color	Type of locking	Handle type	45 mm modular DIN front plate	Reference
25	Blue	-	MC0	yes	2119 0012
25	Blue	1 padlock Ø 5 mm / 0.20 in	MC01	yes	2119 1012
45	Blue	1 padlock Ø 5 mm / 0.20 in	MC01	yes	2119 1412



MC0 handle



MC01 handle

access_305_a_1_cat

access_293_a_1_cat

SIRCO MC PV UL 508I

Load break switches for photovoltaic applications
from 25 to 45 A, up to 1000 VDC

External operation handle

Use

The external control will allow the operator to safely disconnect and isolate the solar strings prior to any intervention.

External controls are user-friendly and adapted to meet requirements of residential installations, large roofs and ground-based generators.



S00 handle



MC1 handle

DIN-rail or back plate mounting

Rating (A)	Handle type	Handle color	Type of locking	Protection degree ⁽¹⁾	Reference
25 ... 45	MC1	Black	3 padlocks Ø 8 mm / 0.35 in	4.4X	2119 3312
25 ... 45	MC1	Red/Yellow	3 padlocks Ø 8 mm / 0.35 in	4.4X	2119 3313
25 ... 45	S00	Black	3 padlocks Ø 8 mm / 0.31 in	4.4X	147D 0111
25 ... 45	S00	Red/Yellow	3 padlocks Ø 8 mm / 0.31 in	4.4X	147R 0111

(1) Nema/UL protection degree.

Shaft for external handle

Use

The shaft can be adjusted and cut depending on the need.

Shaft length

Device + shaft:
- 265 mm



DIN-rail or back plate mounting

Rating (A)	Device + shaft Length	Reference
25 ... 45	265 mm / 10.43 in	2107 0517 ⁽¹⁾

(1) Shaft for door interlocking.

Terminal shrouds

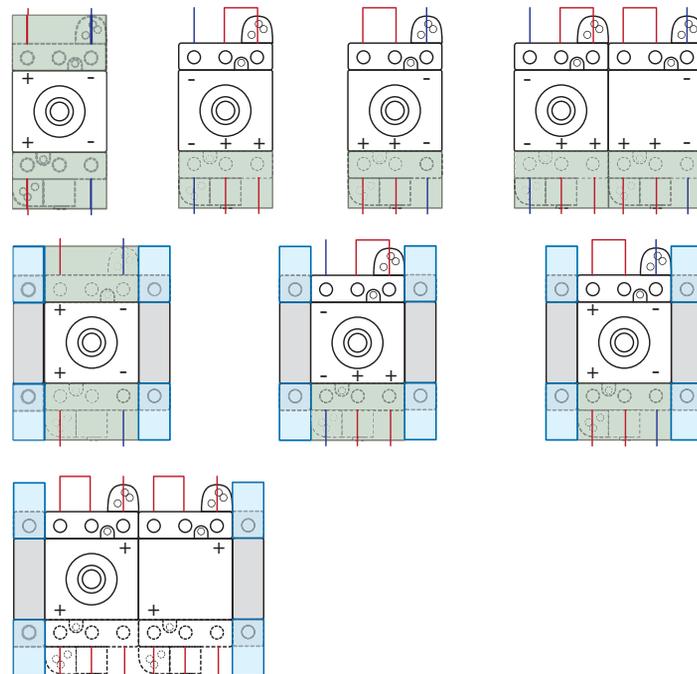
Use

Top or bottom protection against direct contact with the terminals or connection parts. 1 and 3 poles are available.

The SIRCO MC PV load break switch is pre-bridged. Terminal covers are mounted on the top or bottom free space of the device.

Possibility to assemble a terminal shroud on the bridge side by removing the insulating material of the series connection bar (irreversible step).

Rating (A)	Type of mounting	No. of poles	Position	Reference
25 ... 45	DIN-rail	1 P	top or bottom	2194 1004
25 ... 45	DIN-rail	3 P	top or bottom	2194 3004



access_299_a_1_cat



Terminal shrouds 1 pole

access_300_a_1_cat



Terminal shrouds 3 pole

access_341_a_1_cat

access_302_a_1_cat

access_297_a_1_cat

sirco-mc_011_e_1_cat

SIRCO MC PV UL 508I

Load break switches for photovoltaic applications
from 25 to 45 A, up to 1000 VDC

Characteristics

according to UL 508I

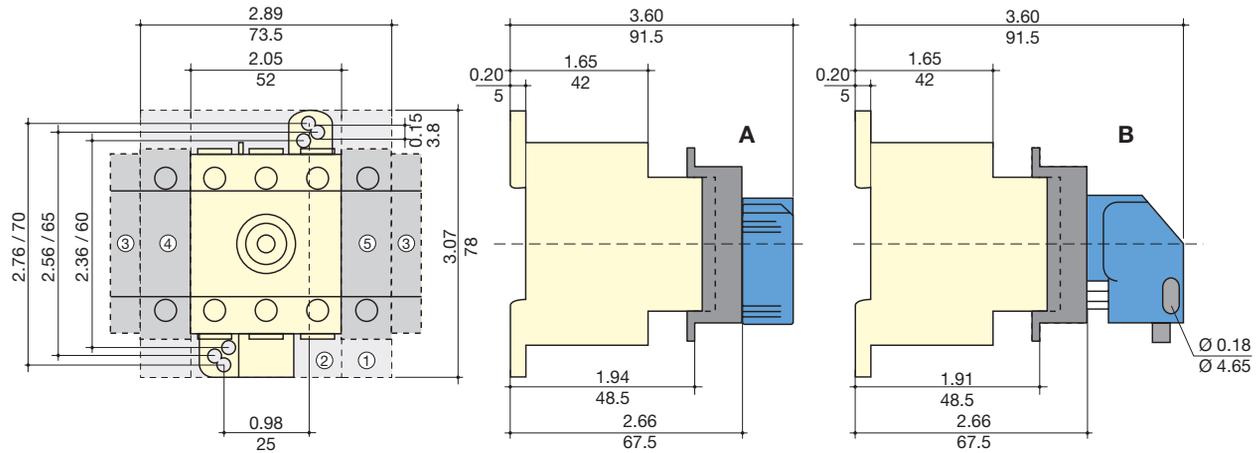
	25 A	45 A
General use rating with 200% overload extra test		
Rated voltage	(A)	(A)
600 VDC	25	-
600 VDC	-	45
600 VDC	25	-
600 VDC	-	45
1000 VDC	-	32
1000 VDC	-	32
Short-circuit capacity at 600 VDC		
Prospective short-circuit current (kA rms)	5	5
Type of fuse	gPV	gPV
Associated fuse rating (A)	25	80
Short-circuit capacity at 1000 VDC		
Prospective short-circuit current (kA rms)	5	5
Connection terminals		
Min. connection wire range / AWG (solid or stranded)	14 / 7	14 / 3
Mechanical characteristics		
Durability (number of operating cycles)	30 000	30 000
Tightening torque (Nm)	2	2

according to IEC 60947-3

	25 A	45 A
Rated current	25 A	45 A
Thermal current I_{th} at 40°C (A)	25	45
Thermal current at 50°C (A)	25	45
Thermal current at 60°C (A)	25	45
Rated insulation voltage U_i (V)	1000	1000
Rated impulse withstand voltage U_{imp} (kV)	8	8
Rated operational currents I_e (A)		
Rated voltage	(A)	(A)
600 VDC	30	-
600 VDC	-	40
600 VDC	30	-
600 VDC	-	40
1000 VDC	10	-
1000 VDC	-	40
1000 VDC	10	-
1000 VDC	-	40

Dimensions (in/mm)

DIN-rail mounting - Direct operation



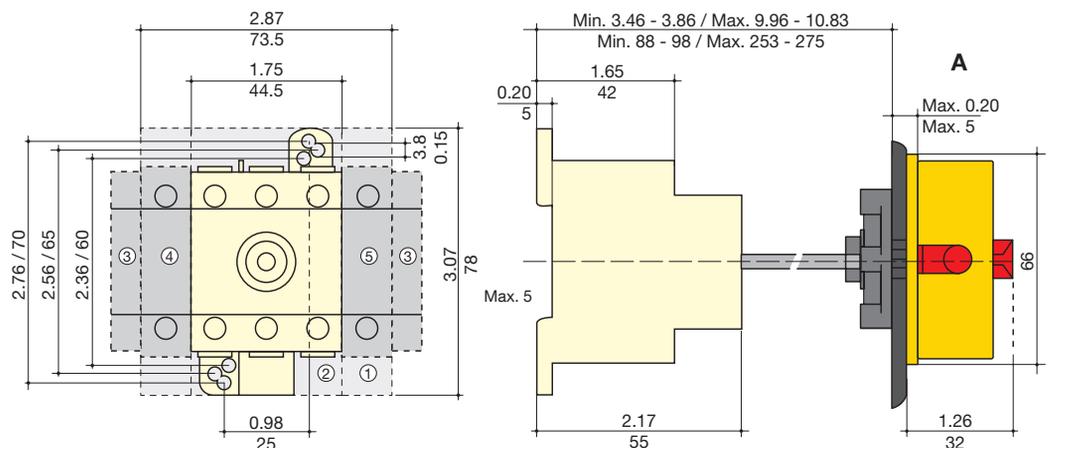
- 1. Terminal shrouds 1P.
- 2. Terminal shrouds 3P.
- 3. Auxiliary contact.

- 4. AC power pole.
- 5. AC or PV power pole.

- A. MC0 handle
- B. MC01 handle

sirco-mc_004_b_1_us_cat

DIN-rail mounting - External operation



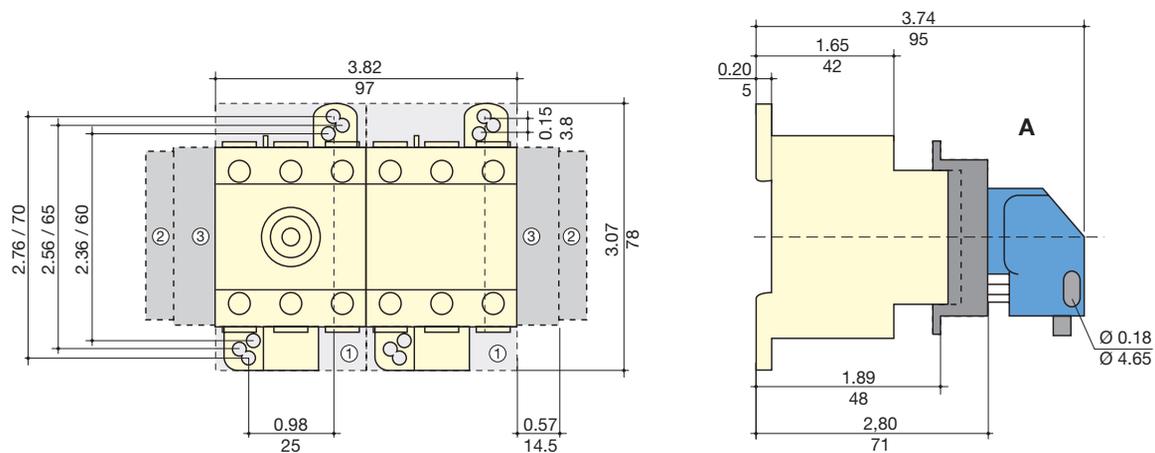
- 1. Terminal shrouds 1P.
- 2. Terminal shrouds 3P.

- 3. Auxiliary contact.
- 4. AC power pole.

- 5. AC or PV power pole.
- A. MC1 handle

sirco-mc_005_b_1_xius_cat

2 MPPT - 45 A - 600 VDC and 32 A - 1000 VDC - DIN-rail mounting - Direct operation



- 1. Terminal shrouds 3P.
- 2. Auxiliary contact.

- 3. PV power pole.

- A. MC01 handle.

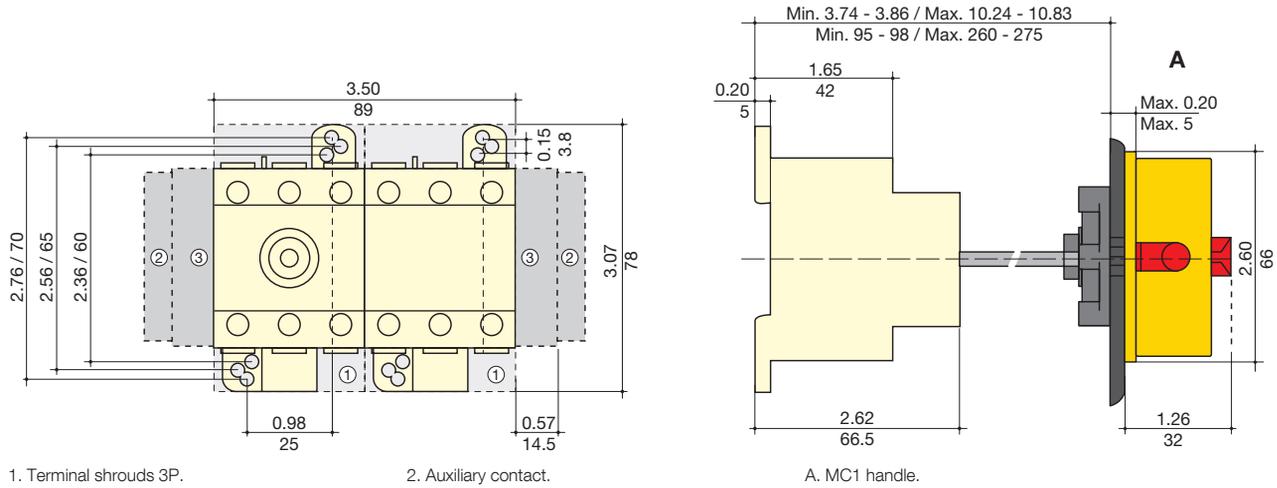
sirco-mc_039_a_1_us_cat

SIRCO MC PV UL 508I

Load break switches for photovoltaic applications
from 25 to 45 A, up to 1000 VDC

Dimensions (continued)

DIN-rail mounting - External operation



sirco-mc_040_b_1_us_cat

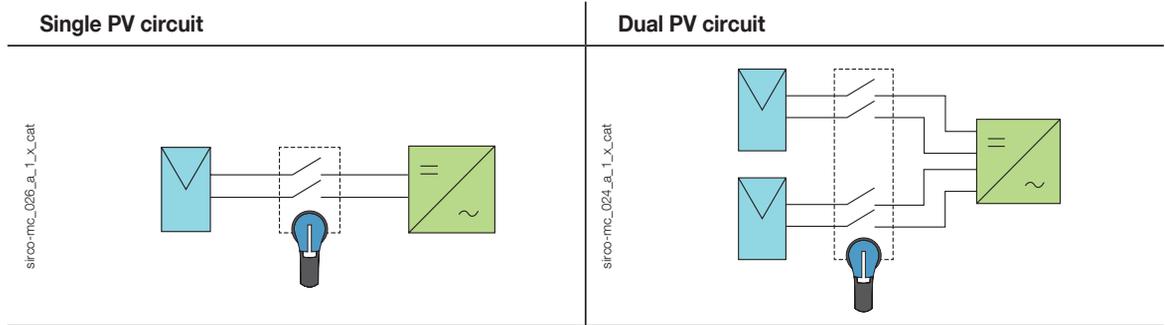
Dimensions for external handles (in/mm)

DIN-rail or back plate mounting

Handle type	Front operation Direction of operation	Door drilling
<p>MC1 type</p> <p>poign_001_a_1_us_cat</p>		
<p>S00 type</p> <p>poign_056_a_1_us_cat</p>		<p>With 4 fixing screws</p> <p>With fixing nut</p>

Poles connections

Switching of polarities + and - ⁽¹⁾



Rating	Single PV circuit	Dual PV circuit
25 A - 600 VDC	<p>21PV 2102-UL</p> <p>sirco-mc_044_a_1_gb_cat</p>	<p>21PV 5102-UL</p> <p>sirco-mc_045_a_1_gb_cat</p>
45 A - 600 VDC 32 A - 1000 VDC	<p>21PV 4144</p> <p>sirco-mc_063_a_1_gb_cat</p>	<p>21PV 8144</p> <p>sirco-mc_065_a_1_gb_cat</p>

(1) For grounded systems, single polarity switching, a bridge shall be added.
 For spare bridging bars, please consult use.

SIRCO MC PV IEC 60947-3

Load break switches for photovoltaic applications
from 25 to 40 A, up to 1000 VDC



SIRCO MC PV 25 A - 1000 VDC
DIN-rail mounting



SIRCO MC PV 25 A - 1000 VDC
Door mounting

The solution for

- > Residential buildings
- > Buildings
- > Solar parks



Strong points

- > Compact
- > High breaking capacity up to 1000 VDC
- > Safety
- > Easy assembling

Check it out

- > Need an enclosed switch? No problem with our specific product department. We have solutions for any requirement.



conf_s80_a_1_cat

Conformity to standards

- > IEC 60947-3
- > UL508i⁽¹⁾



(1) See UL version

Approvals and certifications⁽¹⁾



(1) Product reference on request.

Function

SIRCO MC PV are DC load break switches. They make and break under load conditions and provide optimum safety isolation for any PV circuit.

Advantages

Compact

Thanks to its compact design, the space needed within the combiner box or the solar inverter is greatly reduced.

High breaking capacity up to 1000 VDC

- Making and breaking capacity under load conditions up to 1000 VDC.
- Specific photovoltaic test beyond requirements of IEC 60947-3 standard.

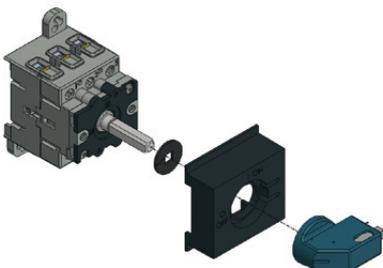
Safety

- Bridging bars are factory fitted for easier, quicker and safer connection.
- Direct access to connection terminals for adequate tightening.

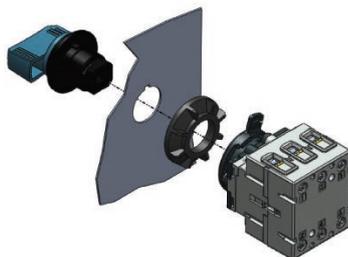
Easy mounting

Three mounting possibilities are available for optimum integration and time saving:

- DIN-rail or back plate mounting.
- Door mounting.
- "Quick Fix" mounting (quarter turn fixation without tools).



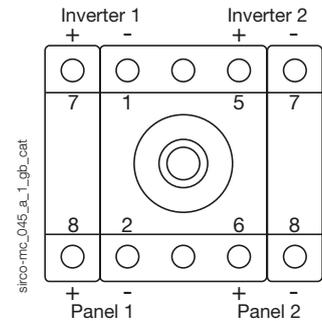
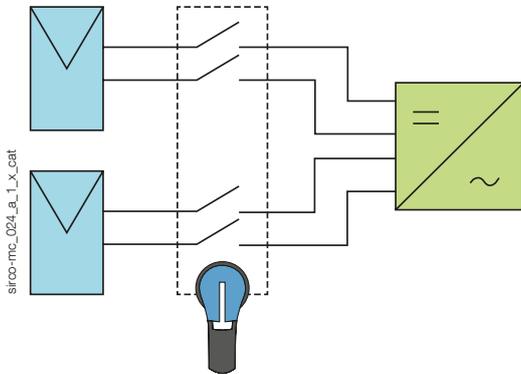
SIRCO MC PV
DIN-rail mounting



SIRCO MC PV
Door mounted

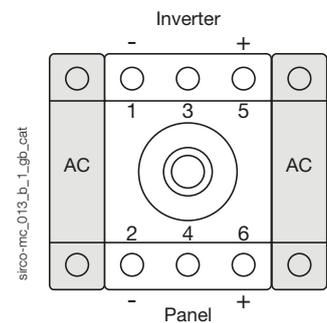
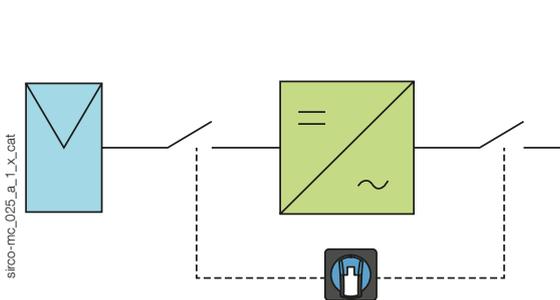
Multi-circuit switching

- The SIRCO MC PV for dual circuits (2 MPPT: Maximum Power Point Tracking) enables connection of two independent photovoltaic circuits to a single switch in order to reduce the costs of the global solution.



Completely isolate the inverter within one operation

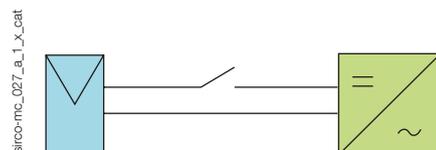
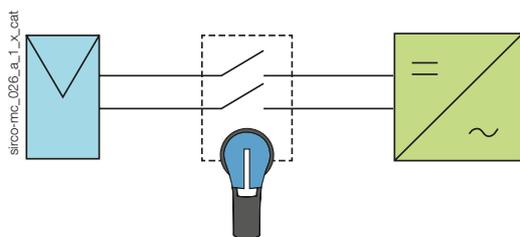
- The SIRCO MC PV with two additional AC poles can be integrated into the inverter to provide complete and simultaneous isolation of the PV and AC circuits. This improves safety and reduces the overall product size.



What you need to know

For grounded or ungrounded networks:

It is possible to use the SIRCO MC PV in both network systems, either switching one or both polarities.



SIRCO MC PV IEC 60947-3

Load break switches for photovoltaic applications
from 25 to 40 A, up to 1000 VDC

References

600 VDC - DIN rail or back plate mounting

Rating (A)	Circuit type	Number of poles by PV polarity ⁽³⁾	No of poles AC current	Switch body	Direct handle ⁽¹⁾	External handle	Shaft for external handle	Auxiliary contact
30 A	Single PV circuit	1 P+, 1 P-	-	21PV 2102	MC0 type Blue 2119 0012 ⁽²⁾ MC01 type Blue 2119 1012	MC1 type Black IP65 2119 3312 ⁽²⁾ Red / Yellow IP65 2119 3313	165 ... 200 mm 2107 0516	1 contact NC+NO 2119 0001
	PV + AC circuit	1 P+, 1P-	2 P	21PV 2162				
	Dual PV circuit	2 x (1P+, 1P-)	-	21PV 5102				
40 A	Single PV circuit	2 P+, 1 P-	-	21PV 3124	MC01 type Blue 2119 1412	Red / Yellow IP65 2119 3313	165 ... 200 mm 2107 0516	1 contact NC+NO 2119 0001
	PV + AC circuit	2 P+, 1 P-	2 P	21PV 3184				
	Dual PV circuit	2 x (1P+, 1P-)	-	21PV 6124				

(1) 45 mm modular DIN front plate included.

(2) Standard handle.

(3) Default connected device (see "Poles connections").

1000 VDC - DIN rail or back plate mounting

Rating (A)	Circuit type	Number of poles by PV polarity ⁽³⁾	No of poles AC current	Switch body	Direct handle ⁽¹⁾	External handle	Shaft for external handle	Auxiliary contact
25 A	Single PV circuit	2 P+, 1 P-	Please consult us	21PV 3722	MC0 type Blue 2119 0012 ⁽²⁾ MC01 type Blue 2119 1012	Black MC1 type IP65 2119 3312 ⁽²⁾	165 ... 200 mm 2107 0516	1 contact NO + NC 2119 0001
	Dual PV circuit	2 x (1P+, 1P-)		21PV 6722	MC01 type Blue 2119 1412			
40 A	Single PV circuit	2 P+, 2 P-		21PV 4754	MC0 type Blue 2119 0012 ⁽²⁾ MC01 type Blue 2119 1012	Red / Yellow IP65 2119 3313	165 ... 200 mm 2107 0516	1 contact NO + NC 2119 0001
	Dual PV circuit	2 x (2 P+, 2 P-)		21PV 8154	MC01 type Blue 2119 1412			

(1) 45 mm modular DIN front plate included.

(2) Standard handle.

(3) Default connected device (see "Poles connections").

SIRCO MC PV IEC 60947-3

Load break switches for photovoltaic applications
from 25 to 40 A, up to 1000 VDC

600 VDC - Door mounting

Rating (A)	Circuit type	Number of poles by PV polarity ⁽¹⁾	No of poles AC current	Switch body ⁽³⁾	External handle ⁽³⁾	Switch body "Quick Fix"	External handle "Quick Fix"	Auxiliary contact
30 A	Single PV circuit	1 P+, 1 P-	-	21PV 2202	MC2 type Blue IP55 2129 0112 ⁽²⁾	21PV 2302	MC3 type Blue IP65 2139 1212 ⁽²⁾	1 contact NC+NO 2129 0001
	PV + AC circuit	1 P+, 1 P-	2 P	21PV 2262		21PV 2362		
	Dual PV circuit	2 x (1P+, 1P-)	-	21PV 5202		21PV 5302	MC4 type Black IP65 2139 3312	
40 A	Single PV circuit	2 P+, 1 P-	-	21PV 3224		21PV 3324	Red/Yellow IP65 2139 3313	
	PV + AC circuit	2 P+, 1 P-	2 P	21PV 3284		21PV 3384		

(1) Default connected device (see "Poles connections").

(2) Standard handle.

(3) Door mounted standard.

1000 VDC - Door mounting

Rating (A)	Circuit type	Number of poles by PV polarity ⁽¹⁾	No of poles AC current	Switch body ⁽³⁾	External handle ⁽³⁾	Switch body "Quick Fix"	External handle "Quick Fix"	Auxiliary contact
25 A	Single PV circuit	2 P+, 1 P-	Please consult us	21PV 3822	MC2 type Blue IP55 2129 0112	21PV 3922	MC3 type Blue IP65 2139 1212 ⁽²⁾	1 contact NC+NO 2129 0001
40 A	Single PV circuit	2 P+, 2 P-		21PV 4854		21PV 4954	Red/Yellow IP65 2139 3313	

(1) Default connected device (see "Poles connections").

(2) Standard handle.

(3) Door mounted standard.

SIRCO MC PV IEC 60947-3

Load break switches for photovoltaic applications
from 25 to 40 A, up to 1000 VDC

Accessories

Direct operation handle

Use

The direct operation conversion kit requires an additional 4 mm distance on each side of the 2 and 3 pole device.

Rating (A)	Handle colour	Type of locking	Handle type	45 mm modular DIN front plate	Reference
25 ... 40	Blue	-	MC0	yes	2119 0012 ⁽¹⁾
25 ... 40	Blue	1 padlock Ø 5 mm	MC01	yes	2119 1012

(1) Standard handle.

2 MPPT 600 V					
Rating (A)	Handle colour	Type of locking	Handle type	45 mm modular DIN front plate	Reference
30	Blue	-	MC0	yes	2119 0012
30	Blue	1 padlock Ø 5 mm	MC01	yes	2119 1012
40	Blue	1 padlock Ø 5 mm	MC01	yes	2119 1412

2 MPPT 1000 V					
Rating (A)	Handle colour	Type of locking	Handle type	45 mm modular DIN front plate	Reference
25 ... 40	Blue	1 padlock Ø 5 mm	MC01	yes	2119 1412



MC0 handle



MC01 handle

Door interlocked external operation handle

Use

The external control will allow the operator to safely disconnect and isolate the solar strings prior to any intervention.

External controls are user-friendly and adapted to meet requirements of residential installations, large roofs and ground-based generators.

DIN-rail or back plate mounting					
Rating (A)	Handle type	Handle colour	Type of locking	External IP ⁽¹⁾	Reference
25 ... 40	MC1	Black	3 padlocks Ø 9 mm	IP65	2119 3312 ⁽²⁾⁽³⁾
25 ... 40	MC1	Red/Yellow	3 padlocks Ø 9 mm	IP65	2119 3313 ⁽³⁾
25 ... 40	S000	Black	3 padlocks Ø 6 mm	IP55	1461 5111
25 ... 40	S000	Black	3 padlocks Ø 6 mm	IP65	1463 5111
25 ... 40	S000	Red/Yellow	3 padlocks Ø 6 mm	IP65	1464 5111

(1) IP: protection degree according to IEC 60529 standard.

(2) Standard handle.
(3) No padlocking.

Door mounting					
Rating (A)	Handle type	Handle colour	Type of locking	External IP ⁽¹⁾	Reference
25 ... 40	MC2	Blue	-	IP55	2129 0112 ⁽²⁾

(1) IP: protection degree according to IEC 60529 standard.
(2) Standard handle

"Quick Fix" door mounting					
Rating (A)	Handle type	Handle colour	Type of locking	External IP ⁽¹⁾	Reference
25 ... 40	MC3	Blue	1 padlock Ø5 mm	IP65	2139 1212 ⁽²⁾
25 ... 40	MC4	Black	3 padlocks Ø9 mm	IP65	2139 3312
25 ... 40	MC4	Red/Yellow	3 padlocks Ø9 mm	IP65	2139 3313



S000 handle



MC4 handle



MC2 handle

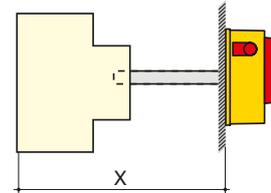
Shaft for external handle

Use

MC1 and S000 shafts can be adjusted and cut depending on the need.

Shaft length

MC1 type:
- 165 mm (adjustable up to 177 mm)
S000 type:
- 150 mm
- 200 mm
- 320 mm



DIN-rail or back plate mounting				
Rating (A)	Handle type	Dimension X (mm)	Length (mm)	Reference
25 ... 40	MC1	249 ... 259	165	2107 0516
25 ... 40	S000	234 ... 246	150	2107 0515
25 ... 40	S000	284 ... 496	200	2107 0520
25 ... 40	S000	404 ... 416	320	2107 0532

Terminal shrouds

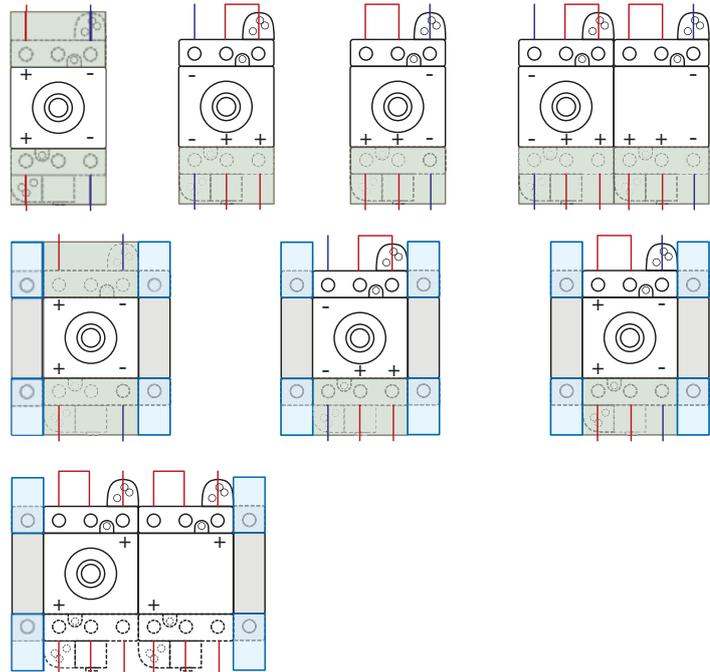
Use

Top or bottom protection against direct contact with the terminals or connection parts.
1 and 3 poles are available.

The SIRCO MC PV load break switch is pre-bridged. Terminal covers are mounted on the top or bottom free space of the device.
Possibility to assemble a terminal shroud on the bridge side by removing the insulating material of the series connection bar (irreversible step).

For SIRCO MC PV

Rating (A)	Type of mounting	No. of poles	Position	Reference
25 ... 40	rail / door mounting	1 P	top or bottom	2194 1004
25 ... 40	rail / door mounting	3 P	top or bottom	2194 3004



Terminal shrouds 1 pole



Terminal shrouds 3 pole

SIRCO MC PV IEC 60947-3

Load break switches for photovoltaic applications

from 25 to 40 A, up to 1000 VDC

Accessories (continued)

Auxiliary contact

Use

These auxiliary contacts signalling position 0 and 1 can be normally open or normally closed contacts. They can be fixed on the left or right side of the switch body and/or on the power additional pole.

Connections

Min./max cross-sections: 1 mm²/4 mm²

Tightening torque: 0.6 Nm

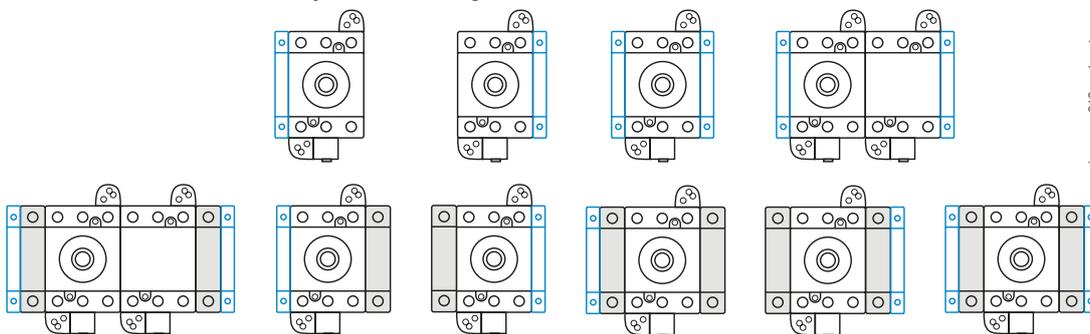
Rating (A)	Type of mounting	Contact(s)	Contact type	Reference
25 ... 40	DIN-rail / back plate mounted	1 contact	NO + NC	2119 0001
25 ... 40	Door mounted	1 contact	NO + NC	2129 0001

Characteristics according to IEC 60947-5-1

Rating (A)	Contact type	Thermal current I _{th} (A)	Operating current I _o (A)		
			230 VAC AC-15	400 VAC AC-15	690 VAC AC-15
25 ... 40	NO + NC	16	6	4	2



Auxiliary contacts configurations



Characteristics according to IEC 60947-3

25 to 40 A

Rated current	25 A	30 A	40 A
Thermal current I _{th} at 40°C (A)	25	30	40
Thermal current at 50°C (A)	25	30	40
Thermal current at 60°C (A)	25	30	40
Rated insulation voltage U _i (V)	1000	1000	1000
Rated impulse withstand voltage U _{imp} (kV)	8	8	8

Rated operational currents I_o (A)

Rated voltage	Utilisation category	Circuit type	Number of poles of the device	Number of pole(s) in series per polarity	(A)	(A)	(A)
600 VDC	DC-21 B	Single PV circuit	2 P	1 P+ and 1 P-	-	30	-
600 VDC	DC-21 B	Single PV circuit	3 P	2 P+ and 1 P-	-	-	40
600 VDC	DC-21 B	Dual PV circuit	4 P	2 x (1 P+ and 1 P-)	-	30	-
600 VDC	DC-21 B	Dual PV circuit	6 P	2 x (2 P+ and 1 P-)	-	-	40
1000 VDC	DC-21 B	Single PV circuit	3 P	2 P+ and 1 P-	25	-	-
1000 VDC	DC-21 B	Single PV circuit	4 P	2 P+ and 2 P-	-	-	40
1000 VDC	DC-21 B	Dual PV circuit	6 P	2 x (2 P+ and 1 P-)	25	-	-
1000 VDC	DC-21 B	Dual PV circuit	8 P	2 x (2 P+ and 2 P-)	-	-	40

Connection

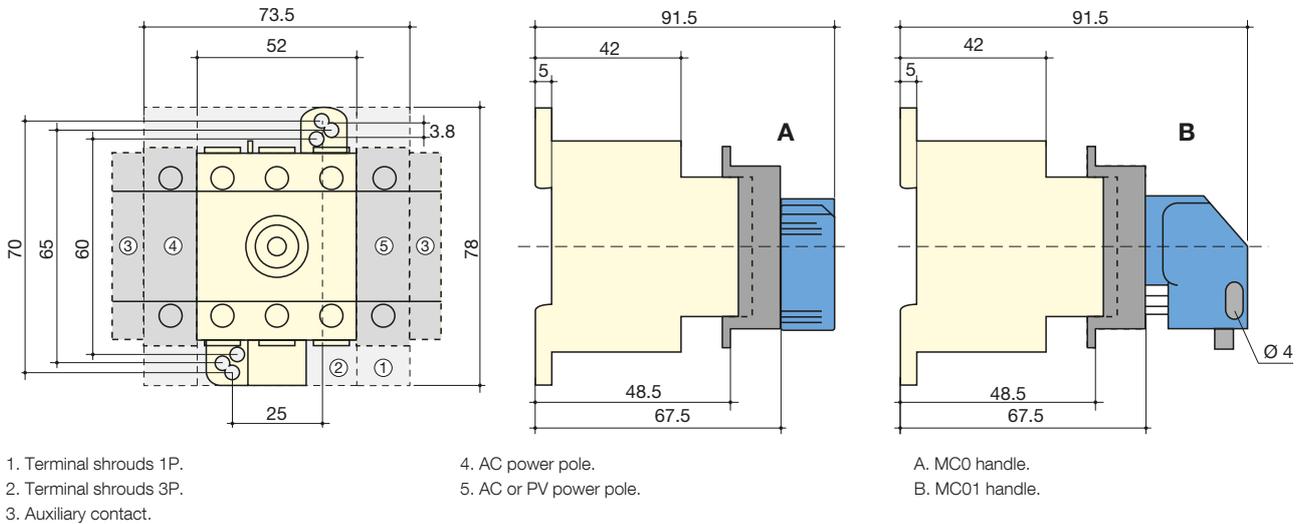
	25 A	30 A	40 A
Minimum Cu cable cross-section	1.5	1.5	1.5
Maximum Cu cable cross-section (mm ²)	10	10	10
Tightening torque mini / maxi (Nm)	2	2	2

Mechanical characteristics

	25 A	30 A	40 A
Durability (number of operating cycles)	30000	30000	30000
Operating torque (Nm)	0.8	0.8	0.8
Weight of a 2 pole PV device (kg)	0.110	0.110	-
Weight of a 3 pole PV device (kg)	0.125	0.125	0.125
Weight of a 2 pole PV and 2 pole AC device (kg)	0.180	0.180	-
Weight of a 3 pole PV and 2 pole AC device (kg)	-	-	0.195
Weight of a 4 pole PV device (kg)	-	-	0.160
Weight of a 4 pole PV device, dual PV circuit (kg)	0.145	0.145	-
Weight of a 6 pole PV device, dual PV circuit (kg)	-	-	0.250
Weight of an 8 pole PV device, dual PV circuit (kg)	-	-	0.320

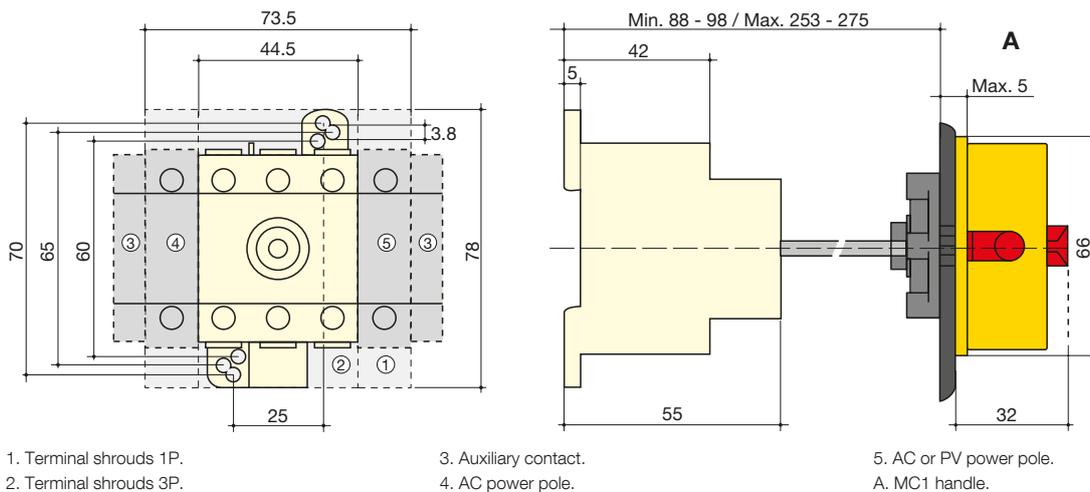
Dimensions

DIN-rail mounting - Direct operation



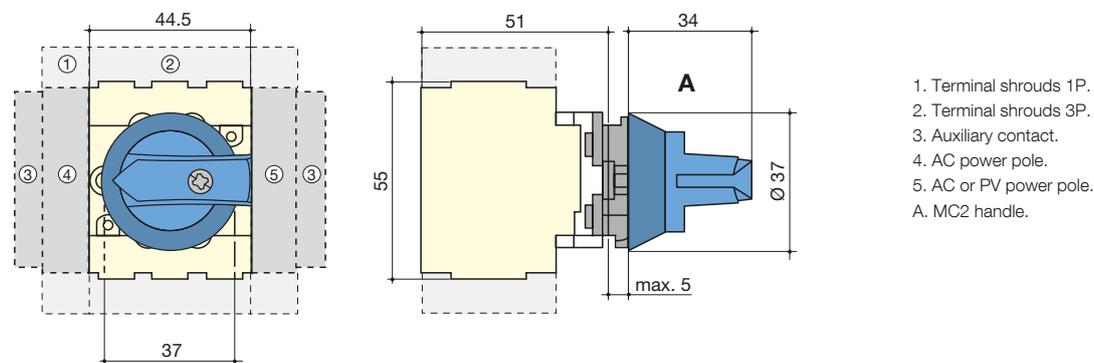
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DIN-rail mounting - External operation



sirco-mc_005_b_1_x_cat

Door mounting



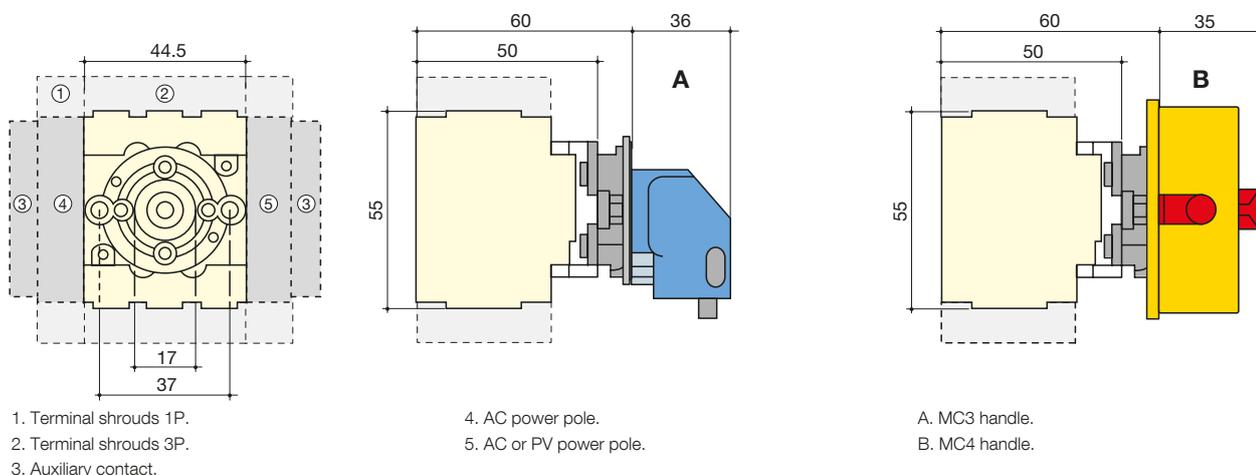
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SIRCO MC PV IEC 60947-3

Load break switches for photovoltaic applications
from 25 to 40 A, up to 1000 VDC

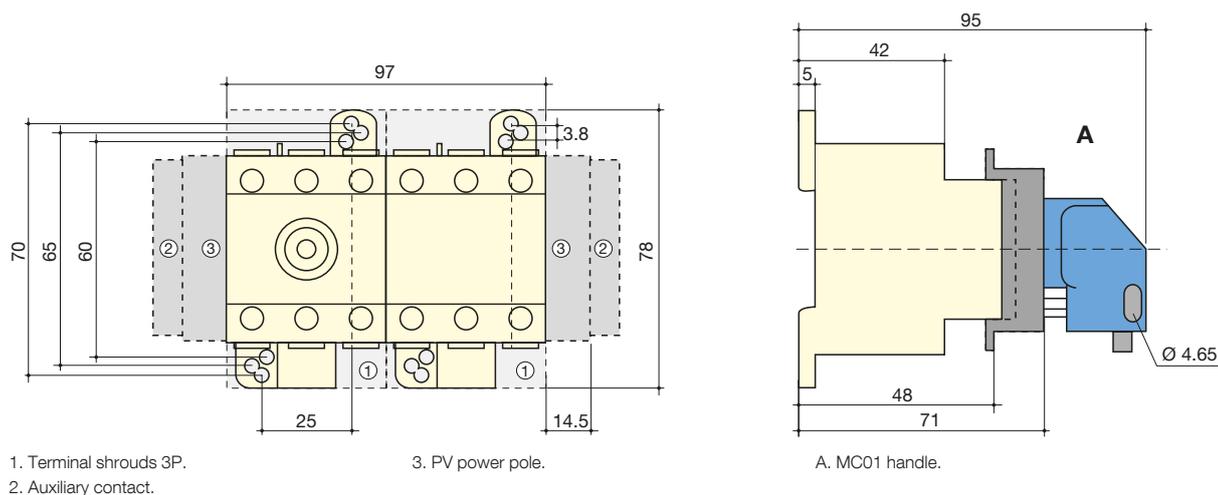
Dimensions

"Quick Fix" door mounting



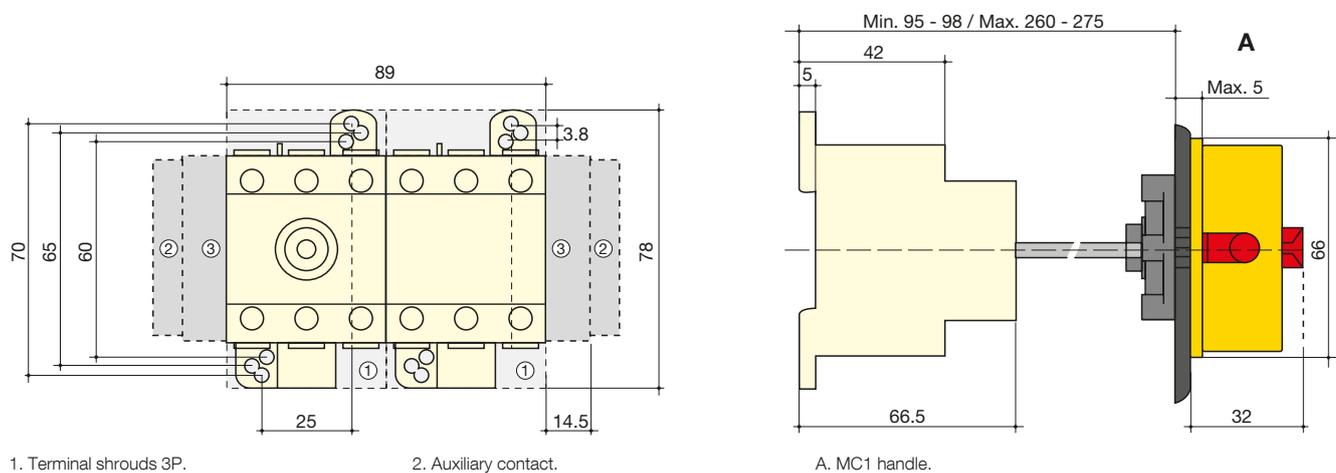
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2 MPPT - 40 A - 600 VDC and 25 and 40 A - 1000 VDC - DIN-rail mounting - Direct operation



sirco-mc_039_a_1_x_cat

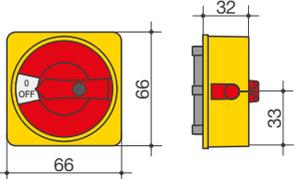
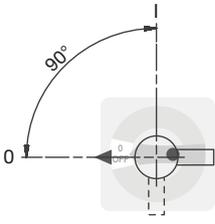
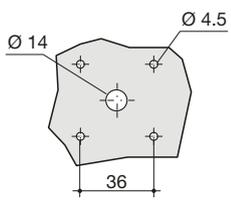
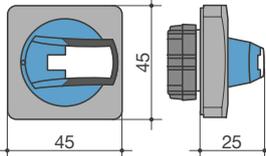
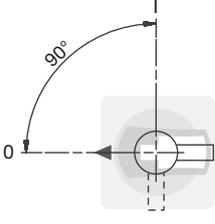
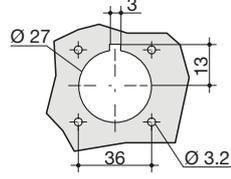
DIN-rail mounting - External operation



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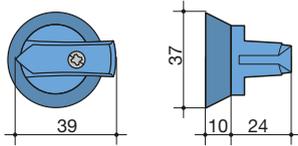
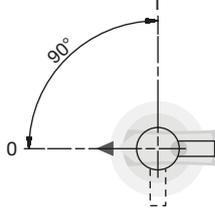
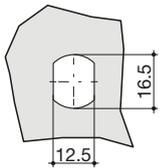
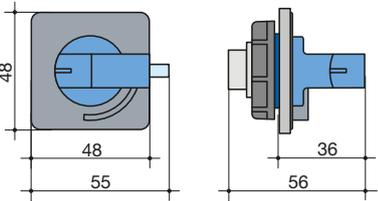
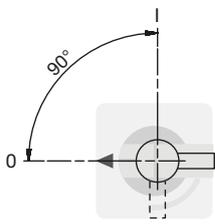
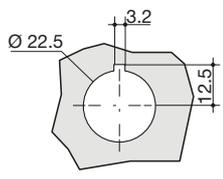
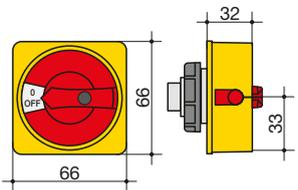
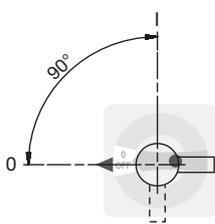
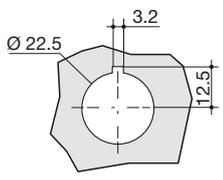
Dimensions for external handles

DIN-rail or back plate mounting

Handle type	Front operation Direction of operation	Door drilling
<p>MC1 type</p> 		
<p>S000 type</p> 		

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Door mounting

Handle type	Front operation Direction of operation	Door drilling
<p>MC2 type</p> 		
<p>MC3 type Quick Fix</p> 		
<p>MC4 type Quick Fix</p> 		

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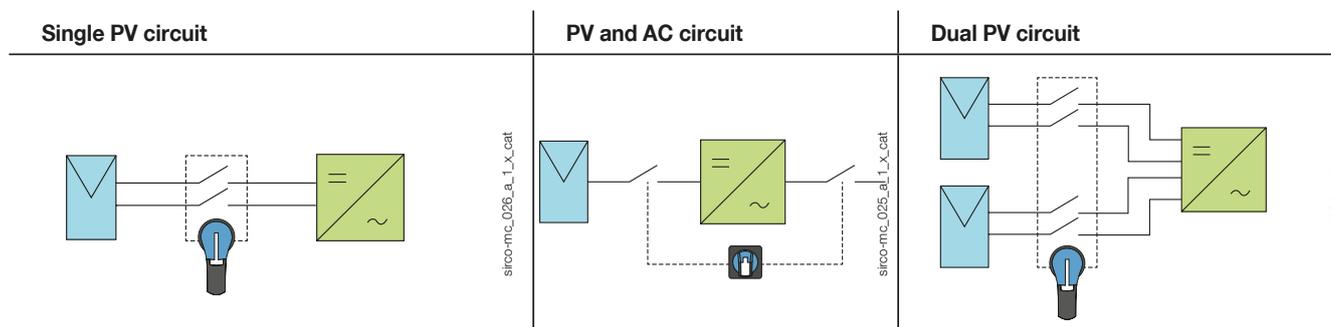
SIRCO MC PV IEC 60947-3

Load break switches for photovoltaic applications

from 25 to 40 A, up to 1000 VDC

Poles connections

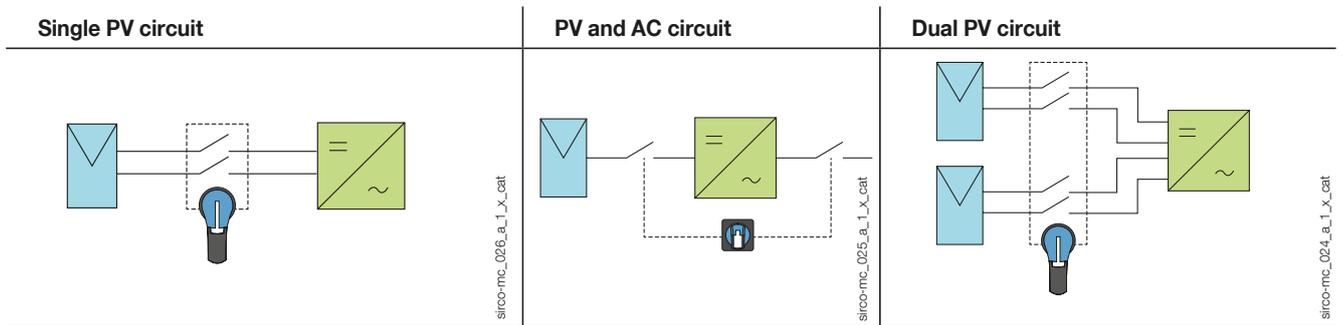
Switching of polarities + and -



Direct operation

Rating	Single PV circuit	PV and AC circuit	Dual PV circuit
25 A - 600 VDC	21PV 2102 	21PV 2162 	21PV 5102
40 A - 600 VDC 25 A - 1000 VDC	21PV 3124 21PV 3722 	21PV 3184 	21PV 6124 21PV 6722
40 A - 1000 VDC	21PV 4754 		21PV 8154

Switching of polarities + and -



Door mounting

Rating	Single PV circuit	PV and AC circuit	Dual PV circuit
25 A - 600 VDC	<p>21PV 2202 21PV 2302</p>	<p>21PV 2262 21PV 2362</p>	<p>21PV 5202 21PV 5302</p>
40 A - 600 VDC 25 A - 1000 VDC	<p>21PV 3224 21PV 3324 21PV 3822 21PV 3922</p>	<p>21PV 3284 21PV 3384</p>	
40 A - 1000 VDC	<p>21PV 4854 21PV 4954</p>		