

Switching, control and protection solutions for solar applications

CONTINUOUS PERFORMANCE



Summary



SIRCO M PV

Manually operated modulable and modular switches

p. 4



SIRCO MV PV

Manually operated modulable and modular switches

p. 12



SIRCO PV

Manually operated multipolar switches

p. 18



RM PV

Modular fuse disconnects

p. 24



PV fuses

Cylindrical fuses

p. 26



SURGYS G50-PV

Protection against voltage surges

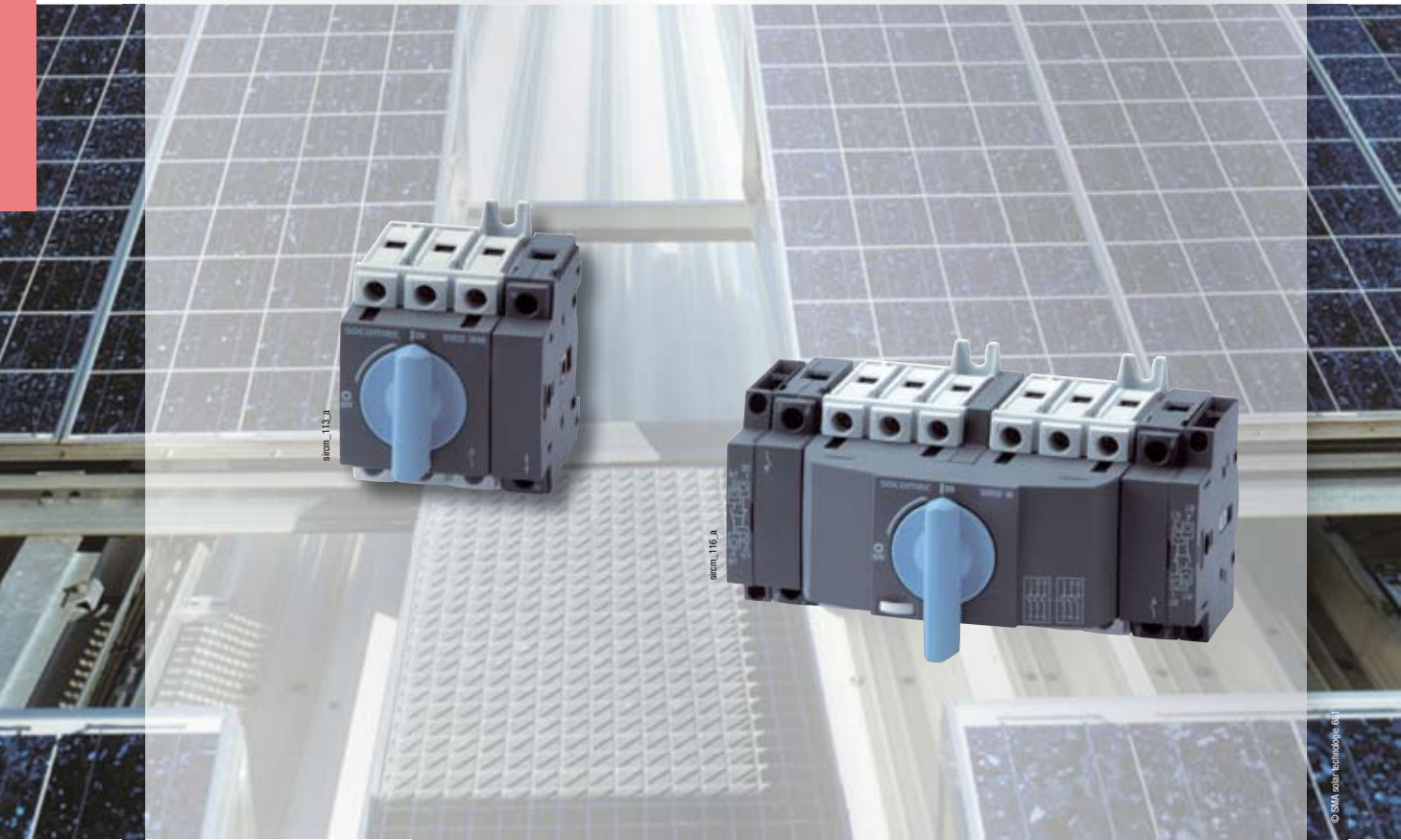
p. 30

⇒ Control, protection and guarantee of the safety of your electrical installation

Switching equipment, energy management systems, monitoring and protection relays, mounting-cabling accessories: solutions and services in order to meet your requirements for monitoring the power of LV electrical energy.



⇒ For further information: www.socomec.com



500 V d.c., 600 V d.c. and 800 V d.c. Photovoltaic Switch 40 to 80 A

➤ Function

SIRCO M PV are manually operated multipolar load break switches. They break on and off load and provide safety isolation for any low voltage circuit of photovoltaic applications.

➤ Customised solutions

- SIRCO M PV 9 and 12 pole
- SIRCO M PV and SIRCO M for disconnecting both a.c. and d.c. sides
- SIRCO M PV mixed rating

➤ General characteristics

- Modular and flexible device
- Fully visualised breaking.
- Double break per phase
- Contact point technology.
- DIN rail mounting, panel or modular panel with 45 mm front cut out.

➤ Compliant with

- IEC 60947-3
- EN 60947-3
- IEC 60364-4-410 (They provide safety disconnection and protection against overcurrents)
- IEC 60364-7-712 (Buildings electrical installations - Part 7-712 : rules for special locations - Solar photovoltaic power supplies (PV))

➤ Available on request

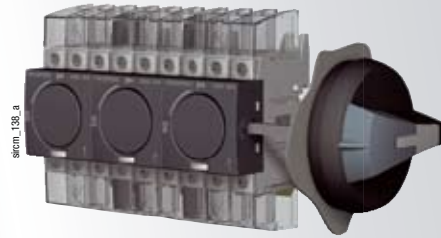
- Other ratings : please consult us.
- Enclosed multipolar switches : please consult us.

What you need to know

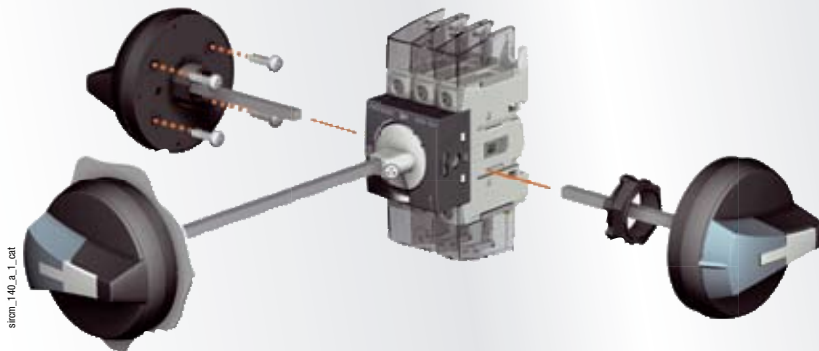
Direct operation



External side operation for multipolar configuration



External handle



- In a combiner box, located close to the solar cell strings, or located close to the inverter, we recommend the use of a door interlocked external handle for its safety features. The locking function of the enclosure in the "ON" position will force the operator to safely disconnect and isolate the solar cell strings prior to any intervention.



Zoom

• Think about it...

You can combine overcurrent protection with protection against transient overvoltages due to lightning (see page 30).

• Need an enclosed switch ?

No problem with our specific product department. SOCOMEC also manufactures solutions for all your requirements. For further information, please contact us.

References

SIRCO M PV

Rating (A)	No. of pole	Switch body	Direct handle	Door interlocked external front and right side handle	Door interlocked external left side handle	Shaft extensions for external front and side handle	Auxiliary contact	Door mounting kit
40 A	4 P	22PV 4004	Blue 2299 5012 ⁽²⁾ Red 2299 5013 ⁽²⁾	S00-type Black IP55 1471 1111 ⁽¹⁾ Black IP65 1473 1111 ⁽¹⁾ Red/Yellow IP65 1474 1111 ⁽¹⁾	S00-type Black IP65 147A 5111 Red/Yellow IP65 147B 5111	150 mm 1407 0515 200 mm 1407 0520 320 mm 1407 0532	M 1 type NO/NC contact F 2299 0001 1 contact 2 F 2299 0011	Overall dimensions reduce 2299 3409 ⁽²⁾⁽³⁾ Complete protection IP2X 2299 3309 ⁽²⁾⁽³⁾
	6 P	22PV 6004 ⁽⁴⁾						
	8 P	22PV 8004 ⁽⁴⁾						
80 A	4 P	22PV 4008						
	6 P	22PV 6008 ⁽⁴⁾						
	8 P	22PV 8008 ⁽⁴⁾						

(1) Defeatable handle.

(2) For 4 pole switches

(3) Supplied with a shaft.

(4) Direct handle supplied as standard.

Accessories

Direct handle



M00 handle

For SIRCO M PV

Rating (A)	Handle color	Handle	References
40 ... 80	Blue	M00-type	2299 5012 ⁽¹⁾⁽²⁾
40 ... 80	Red	M00-type	2299 5013 ⁽¹⁾⁽²⁾

(1) For 4 pole switches.

(2) Direct handle supplied as standard for 6 and 8 pole equipment.

Door interlocked external handle



S00 handle

Use

The door interlocked external operation includes a padlockable handle, a conversion kit and must be combined with a shaft extension.

In a combiner box, located close to the solar cell strings, or located close to the inverter, we recommend the use of a door interlocked external handle for its safety features.

Example

The locking function of the enclosure in the "ON" position will force the operator to safely disconnect and isolate the solar cell strings prior to any intervention.

Opening the door when the switch is on "ON" position is possible by defeating the locking function with the use of a tool (authorized persons only).

The locking function is restored when the door is closed back.

Front and right side operation I - 0

Rating (A)	Handle color	Handle	External IP	References
40 ... 80	Black	S00-type	IP55	1471 1111 ⁽¹⁾
40 ... 80	Black	S00-type	IP65	1473 1111 ⁽¹⁾
40 ... 80	Red/Yellow	S00-type	IP65	1474 1111 ⁽¹⁾

Left side operation I - 0

Rating (A)	Handle color	Handle	External IP	References
40 ... 80	Black	S00-type	IP65	147A 5111
40 ... 80	Red/Yellow	S00-type	IP65	147B 5111

(1) Defeatable handle.

Shaft extensions for external handle



shaft_045_x_2_x_cat

Use

Standard lengths:

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

Other lengths: please consult us.

For 3/4 pole switches: shaft extensions for external front and side handle.

For 6/8 pole front operated switches: shaft extensions for external front handle only.

For 6/8 pole side operated switches: shaft extensions for external side handle only.

For SIRCO M PV

Rating (A)	Real length (mm)	References
40 ... 80	150 mm	1407 0515
40 ... 80	200 mm	1407 0520
40 ... 80	320 mm	1407 0532

Terminal shrouds



sircm_049_a_1_cat

Use

Top and bottom protection against direct contact with the terminals or connection parts. 2 units per pack. 1 or 3 pole are available.

Advantage

Perforations enabling remote thermographic inspection without dismantling.

For fitting a complete device

4 poles: please order one reference of 3 pole and one reference of 1 pole terminal shrouds

6 poles: please order 2 references of 3 pole terminal shrouds

8 poles: please order 2 references of 3 pole and 1 pole terminal shrouds

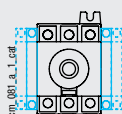
For SIRCO M PV

Rating (A)	No. of pole	Position	References
40	1 P	top and bottom	2294 1005
40	3 P	top and bottom	2294 3005
80	1 P	top and bottom	2294 1009
80	3 P	top and bottom	2294 3009

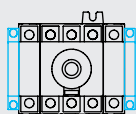
M type auxiliary contacts



sircm_075_b_2_cat



Auxiliary contacts configurations for SIRCO MPV



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 blocks).

Characteristics

NO+NC auxiliary contacts: IP2 with front operation.

For SIRCO M PV

Rating (A)	Number of CA	Type of CA	References
40 ... 80	1 AC	NO + NC	2299 0001
40 ... 80	1 AC	2 NO	2299 0011

Door mounting kit



sircm_051_b_2_cat

Kit with reduced overall dimensions.

Use

This kit enables direct mounting of the SIRCO M PV 4 poles switch, on the door front panel, on the right or left side panels.

Moreover, the connection clamps of the switch are always accessible.

The external handle is quick and easy to install due to an internal locking nut mounted on the inside of the enclosure.

2 kits are available :

- one for complete protection IP2X
- one with overall dimensions reduced

For SIRCO M PV

Rating (A)	No. of pole	Description	References
40 ... 80	3/4 P	Overall dimensions reduce	2299 3409 ⁽¹⁾⁽²⁾
40 ... 80	3/4 P	Complete protection IP2X	2299 3309 ⁽¹⁾

(1) Delivered with a shaft.

(2) Standard.

Cap for side operation mounting



sircm_126_a_2_cat

Use

Accessory for capping the front face of the SIRCO M PV when utilising in door mounting or side operation. 20 units per pack.

This piece can be snapped on the switch body directly.

For SIRCO M PV

Rating (A)	Pack	References
40 ... 80	20 pieces	2299 9409

➤ SIRCO M PV enclosure

SIRCO M PV polycarbonate enclosure



Connection enclosure for photovoltaic supplies

➤ References

Empty enclosures				
Rating (A)	Nb pole	Handle color	Enclosure color	References
40	4 P	Black	Grey	2215 9305
40	4 P	Red	Yellow	2215 9405
80	4 P	Black	Grey	2215 9309
80	4 P	Red	Yellow	2215 9409

Enclosed switch				
Rating (A)	Nb pole	Handle color	Enclosure color	References
40	4 P	Black	Grey	22PV 4304
40	4 P	Red	Yellow	22PV 4404
80	4 P	Black	Grey	22PV 4308
80	4 P	Red	Yellow	22PV 4408

➤ General characteristics

- Equipped with a 4 poles SIRCO M PV
- 1 removable neutral terminal and 1 removable earth terminal.
- IP65 protection
- Possibility of adding M type auxiliary contact module.

SIRCO M PV 40 A

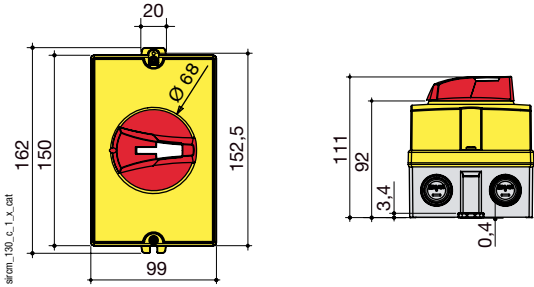
- M16 pre-drill holes (side).
- M20/M25 pre-drill holes (upstream/downstream)
- M20 pre-drill holes (rear)

SIRCO M PV 80 A

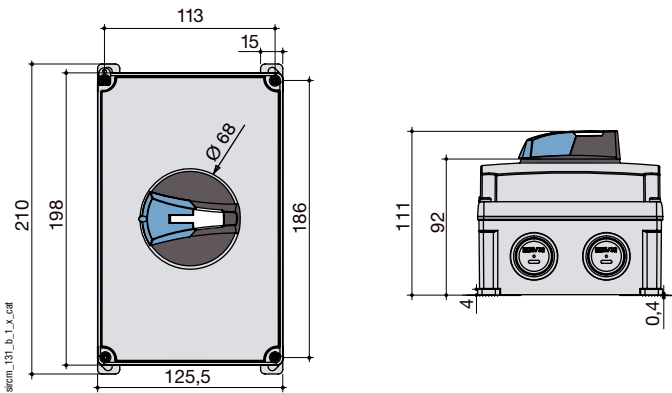
- M16 pre-drill holes (side).
- M25/M32 pre-drill holes (upstream/downstream)
- M25/M32 pre-drill holes (rear)

➤ Dimensions

Enclosed SIRCO M PV 40 A



Enclosed SIRCO M PV 80 A



Characteristics according to IEC 60947-3 40 A to 80 A

SIRCO M PV 40 to 80 A

Thermal current I_{th} (40°C)	40 A	80 A
Rated insulation voltage U_i (V)	800	800
Rated impulse withstand voltage U_{imp} (kV)	8	8

Rated operational currents I_e (A)				
Rated voltage	No. of pole	Number of pole in series per polarity	(A)	(A)
500 V d.c.	4 P	2 P + and 2 P -	32	40
600 V d.c.	6 P	3 P + and 3 P -	25	40
800 V d.c.	8 P	4 P + and 4 P -	25	40

Overload capacity				
Rated short-time withstand current 0.3 s. I_{cw} (kA eff.)			2,5	3
Rated peak withstand current (kA crest) ⁽¹⁾			6	9

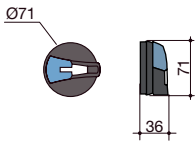
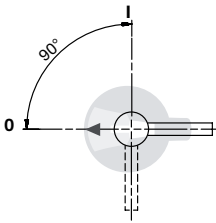
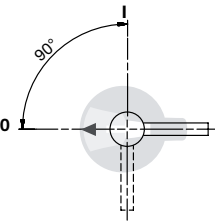
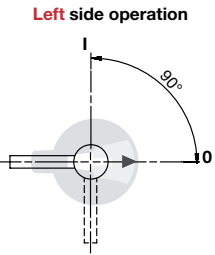
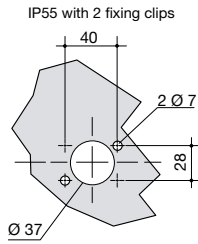
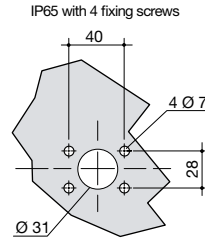
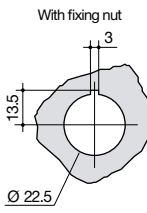
Connection				
Minimum Cu cable section (mm ²)			1,5	2,5
Maximum Cu cable section (mm ²)			16	35
Min / max tightening torque (Nm)			2 / 2,2	3,5 / 3,85

Mechanical characteristics				
Durability (number of operating cycles)			100 000	100 000
Operating torque (Nm)			0,8	1
Weight of a 4 pole device (kg)			0,225	0,350
Weight of a 6 pole device (kg)			0,405	0,585
Weight of a 8 pole device (kg)			0,510	0,755

(1) For a rated operational voltage $U_n = 400$ V a.c.

Dimensions for external handles

SIRCO M PV 40 to 80 A

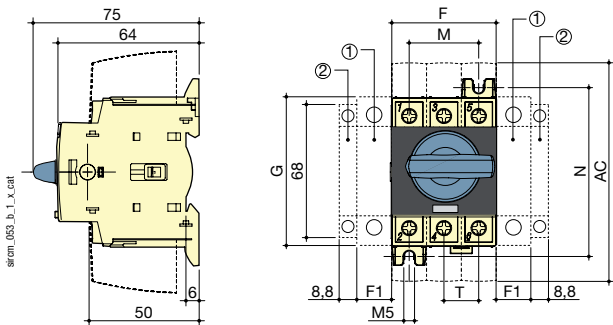
Handle type	Front operation Direction of operation	Side operation Direction of operation	Door drilling template	
S00 type Load break switches				
		Right side operation  Left side operation 	IP55 with 2 fixing clips  IP65 with 4 fixing screws  With fixing nut 	

sircm_177_a_1_gh_en

➤ Dimensions

SIRCO M PV 40 to 80 A

Direct operation with handle



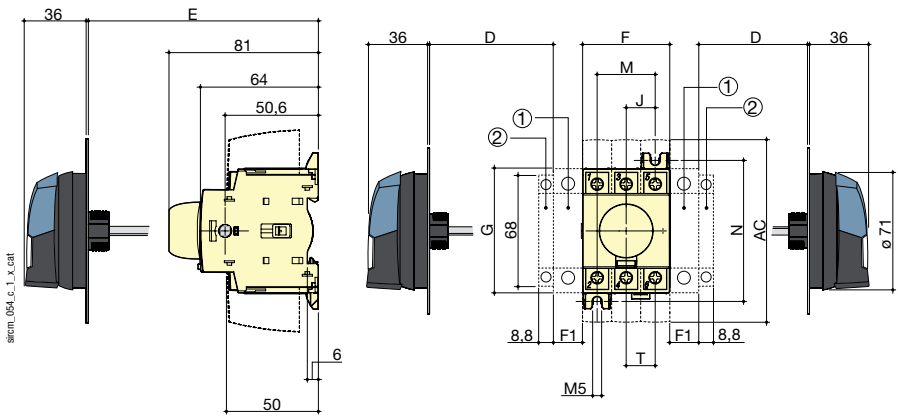
1. Switched 4th pole position (maximum 1 per switch) or 1 auxiliary contact.
2. Position for 1 auxiliary contact only.
Note: max 4 additional blocks

Rating (A)	Overall dimensions				Terminal shrouds		Switch body			Switch mounting		Connection terminal
	D min	D max	E min	E max	AC	F	F1	G	J	M	N	T
40	30	235	100	372	110	45	15	68	15	30	75	15
80	30	235	100	372	110	52,5	17,5	76	17,5	35	85	17,5

SIRCO M PV 40 to 80 A

External front operation

External side operation

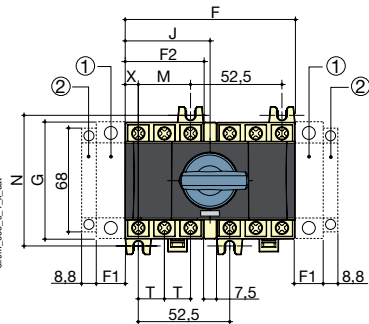


1. Switched 4th pole position (maximum 1 per switch) or 1 auxiliary contact.
2. Position for 1 auxiliary contact only.
Note: max 4 additional blocks

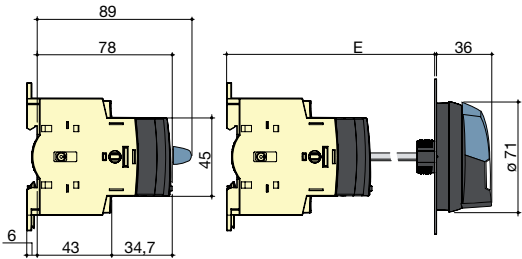
Rating (A)	Overall dimensions				Terminal shrouds		Switch body			Switch mounting		Connection terminal
	D min	D max	E min	E max	AC	F	F1	G	J	M	N	T
40	30	235	100	372	110	45	15	68	15	30	75	15
80	30	235	100	372	110	52,5	17,5	76	17,5	35	85	17,5

SIRCO M PV 40 to 80 A

Direct front operation for 6/8-pole load break switches



External front operation for 6/8-pole load break switches

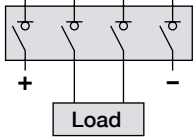


1. Switched 4th pole position (maximum 1 per switch) or 1 auxiliary contact.
2. Position for 1 auxiliary contact only.
Note: max 4 additional blocks

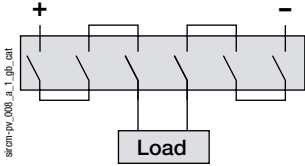
Rating (A)	Overall dimensions		Switch body				Switch mounting		Connection terminal	
	E min	E max	F	F1	G	J	M	N	T	X :
40	105	372	97,5	15	68	48,75	30	75	15	7,5
80	105	372	105	17,5	76	52,5	35	85	17,5	8,75

Pole in series connection diagrams⁽¹⁾

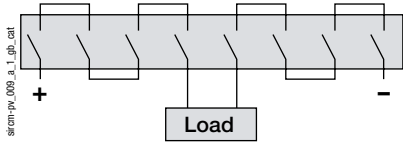
4 pole - bottom / bottom



6 pole - top / bottom



8 pole - bottom / bottom



(1) Other connections: refer to mounting instructions.



600 V d.c. and 800 V d.c. Photovoltaic Switch 63 to 80 A

➤ Function

SIRCO MV PV are manually operated multipolar load break switches. They break on and off load and provide safety isolation for any low voltage circuit of photovoltaic applications.

➤ General characteristics

- Modular device.
- Fully visualised breaking.
- Backplate or DIN rail mounting with 45 mm cut-out up to 80 A.
- Up to 800 V d.c.
- IP20 devices and accessories.

➤ Compliant with

- IEC 60947-3
- EN 60947-3
- VDE 0660-107 (1992)
- IEC 60364-4-410 (They provide safety disconnection and protection against overcurrents)
- IEC 60364-7-712 (Buildings electrical installations - Part 7-712 : rules for special locations - Solar photovoltaic power supplies (PV))

➤ Available on request

- Other ratings : please consult us.
- Enclosed devices : please consult us.

References

Front and side operation

Rating (A)	No. of pole	Switch body	Direct handle	Door interlocked external operation	Door interlocked external right side handle	Door interlocked external left side handle	Shaft extensions for external front and side handle	Auxiliary contact	Terminal shrouds
63 A	3 P	22PV 3106	M0b Blue 2299 5042 ⁽¹⁾	S0 type Black IP55 1491 0111 ⁽¹⁾⁽²⁾	S0 Type Black IP55 1491 0111	S0 type Black IP65 149A 9111	S0 type 150 mm 1409 0615	1 contact NO + NC 2299 0001 ⁽³⁾ 1 contact 2 F 2299 0011 ⁽³⁾	3 P top and bottom 2294 3016 4 P top and bottom 2294 4016
	4 P	22PV 4106		Black IP65 1493 0111 ⁽²⁾ Red/Yellow IP65 1494 0111 ⁽²⁾	Black IP65 1493 0111 Red/Yellow IP65 1494 0111		200 mm 1409 0620 320 mm 1409 0632		
80 A	3 P	22PV 3108		S1 Type Black IP55 1411 2111 ⁽²⁾	S1 Type Black IP55 1415 2111	S1 Type Black IP65 141A 2111	S1 Type 200 mm 1401 0620		
	4 P	22PV 4108		Black IP65 1413 2111 ⁽²⁾ Red/Yellow IP65 1414 2111 ⁽²⁾	Black IP65 1417 2111 Red/Yellow IP65 1418 2111	Red/Yellow IP65 141B 2111	320 mm 1401 0632 400 mm 1401 0640		

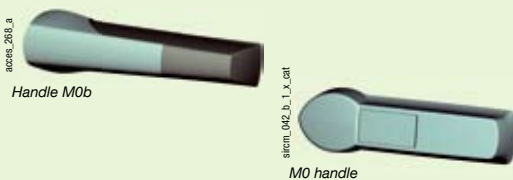
(1) Standard.

(2) Defeatable handle.

(3) Signalling contact only.

Accessories

Direct handle



Direct handle type M0b

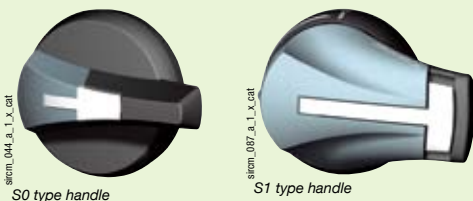
Rating (A)	Handle color	References
63 ... 80	Blue	2299 5042 ⁽¹⁾

Type M0 direct reduced handle

Rating (A)	Handle color	References
63 ... 80	Blue	2299 5022

(1) Standard.

Door interlocked external handle



S0 type handle - Front and right side operation I - 0

Rating (A)	Handle	Handle color	External IP ⁽¹⁾	References
63 ... 80	S0 type	Black	IP55	1491 0111 ⁽²⁾
63 ... 80	S0 type	Black	IP65	1493 0111 ⁽²⁾
63 ... 80	S0 type	Red/Yellow	IP65	1494 0111 ⁽²⁾

S0 type handle - Side hand handle I - 0

Rating (A)	Handle	Handle color	External IP ⁽¹⁾	References
63 ... 80	S0 type	Black	IP65	149A 9111
63 ... 80	S0 type	Red/Yellow	IP65	149B 9111

S1 type handle - Front handle I - 0

Rating (A)	Handle	Handle color	External IP ⁽¹⁾	References
63 ... 80	S1 Type	Black	IP55	1411 2111 ⁽²⁾
63 ... 80	S1 Type	Black	IP65	1413 2111 ⁽²⁾
63 ... 80	S1 Type	Red/Yellow	IP65	1414 2111 ⁽²⁾

S1 type handle - Right-hand side operation I - 0

Rating (A)	Handle	Handle color	External IP ⁽¹⁾	References
63 ... 80	S1 Type	Black	IP65	1415 2111
63 ... 80	S1 Type	Black	IP65	1417 2111
63 ... 80	S1 Type	Red/Yellow	IP65	1418 2111

S1 type handle - right-hand side operation I - 0

Rating (A)	Handle	Handle color	External IP ⁽¹⁾	References
63 ... 80	S1 Type	Black	IP65	141A 2111
63 ... 80	S1 Type	Red/Yellow	IP65	141B 2111

(1) IP: Protection degree according to IEC60529 standard.

(2) Defeatable handle.

Use

In a combiner box, located close to the solar cell strings, or located close to the inverter, we recommend the use of a door interlocked external handle for its safety features.

Example

The locking function of the enclosure in the "ON" position will force the operator to safely disconnect and isolate the solar cell strings prior to any intervention.

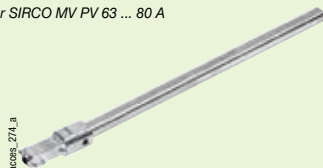
Opening the door when the switch is on "ON" position is possible by defeating the locking function with the use of a tool (authorized persons only).

The locking function is restored when the door is closed back.

Shaft extensions for external handle



Shaft for S0 type handle for SIRCO MV PV 63 ... 80 A



Shaft for S1 type handle for SIRCO MV PV 63 ... 80 A

Use

Standard lengths:

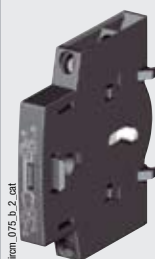
- 150 mm,
- 200 mm
- 320 mm,
- 400 mm,

Other lengths: please consult us.

For SIRCO MV PV

Rating (A)	Handle type	Shaft length (mm)	References
63 ... 80	S0 type	150 mm	1409 0615
63 ... 80	S0 type	200 mm	1409 0620
63 ... 80	S0 type	320 mm	1409 0632
63 ... 80	S1 Type	200 mm	1401 0620
63 ... 80	S1 Type	320 mm	1401 0632
63 ... 80	S1 Type	400 mm	1401 0640

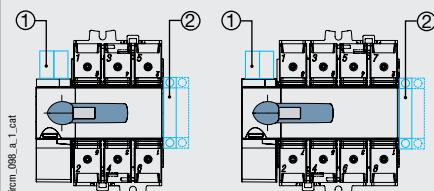
Auxiliary contact



M Type



U Type



Type M

Auxiliary contacts configurations for SIRCO MV PV

1. 2 U type auxiliary contacts maximum
2. 4 NO/NC M type auxiliary contacts maximum

Use

Type M

Signalisation of positions 0 and I by NO+NC or 2 NO auxiliary contacts. They can be mounted on the right side on the SIRCO MV PV. Max 4 auxiliary contacts (2 modules).

Type U

Pre-break and signalisation by NO or NC auxiliary contact can be mounted on the device. Max 2 auxiliary contacts.

Type M

Rating (A)	Contact(s)	Contact type	References
63 ... 80	1 AC	NO + NC	2299 0001⁽¹⁾
63 ... 80	1 AC	2 NO	2299 0011⁽¹⁾

(1) Signalling contact only.

Type U

Rating (A)	Contact(s)	Contact type	References
63 ... 80	1 AC	GB	3999 0701
63 ... 80	1 AC	NC	3999 0702

Terminal shrouds

Use

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

Advantage

Perforations enabling remote thermographic inspection without dismantling.

For SIRCO MV PV

Rating (A)	No. of pole	Position	References
63 ... 80	3 P	top and bottom	2294 3016
63 ... 80	4 P	top and bottom	2294 4016

Bridging bars for connecting pole in series

Use

The bridging bars will make easy the connection of the pole in series, allowing the following configurations:

- Bottom / Bottom
- Top / Top
- Top/ Bottom
- Bottom / Top

Connection diagrams, see page 17.

Rating (A)	Pack	References
63 ... 80	1 piece	2209 0016
63 ... 80	2 pieces	2209 2016

Enclosed switch

Our SIRCO MV PV can be delivered enclosed, please consult us.
Close to the installation, enclosed SIRCO MV PV will guarantee safe d.c. disconnection between the inverters and PV supplies (requirement of IEC60364-712 standard).

For local safety disconnection, SOCOMEC - a leader on the market - offers the widest range of enclosed switches.

Whatever the level of safety is, we are able to meet all your requirements (disconnection, switching for mechanical maintenance, emergency breaking).

- Enclosed solar load break switches
- Enclosed fuse combination switches
- Enclosed changeover switches
- Complete integrated equipment

Available on request:

- Enclosures made of steel or stainless steel sheet metal (painted for sea environments or brushed), insulating materials
- Specific colors (enclosure paint, handle)
- Specific dimensions
- Specific connections classe II quick connectors

For any request of customised products, please consult us

Characteristics according to IEC 60947-3

63 to 80 A

Thermal current I_{th} (40°C)	63 A	80 A
Rated insulation voltage U_i (V)	1 000	1 000
Rated impulse withstand voltage U_{imp} (kV)	8	8

Rated operational currents I_n (A)		
Rated voltage	No. of pole	Number of pole in series per polarity
600 V d.c.	3 P	2 P + and 1 P -
800 V d.c.	4 P	2 P + and 2 P -

Overload capacity		
Rated short-time withstand current 0.3 s. I_{scw} (kA eff.)	7	7
Rated peak withstand current (kA peak) ⁽¹⁾	12	12

Connection		
Minimum Cu cable section (mm ²)	10	10
Maximum Cu cable section (mm ²)	70	70
Min tightening torque (Nm)	4	4
Max tightening torque (Nm)	5	5

Mechanical characteristics		
Operation torque (Nm)	4	4
Weight of a 3 pole device (kg)	0,7	0,7
Weight of a 4 pole device (kg)	0,9	0,9

(1) For a rated operational voltage $U_n = 400$ V a.c.

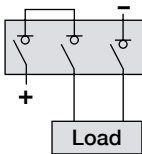
➤ Dimensions for external handles

SIRCO MV PV 63 to 80 A

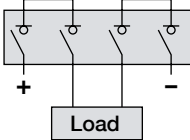
Handle type	Front operation Direction of operation	Side operation Direction of operation	Door drilling template	
S0 type Load break switches		Right side operation Left side operation	IP55 with 2 fixing clips	IP65 with 4 fixing screws
S1 type Load break switches		Right side operation Left side operation	IP55 with 2 fixing clips	IP65 with 4 fixing screws

➤ Pole in series connection diagrams ⁽¹⁾

3 pole - bottom / top



4 pole - bottom / bottom



(1) Other connections : refer to mounting instructions.



750 V d.c. and 1000 V d.c. Photovoltaic Switch 100 to 800 A

➤ Function

SIRCO PV are manually operated multipolar load break switches. They break on and off load and provide safety isolation for any low voltage circuit of photovoltaic applications.

➤ General characteristics

- Patented switching technology.
- Fully visualised breaking.
- DIN rail or panel mounting.
- Up to 1000 V d.c.

➤ Available on request

- Other ratings : Please consult us.
- Enclosed devices : please consult us.

➤ Compliant with

- IEC 60947-3
- EN 60947-3
- VDE 0660-107 (1992)
- IEC 60364-4-410 (They provide safety disconnection and protection against overcurrents)
- IEC 60364-7-712 (Buildings electrical installations - Part 7-712 : rules for special locations - Solar photovoltaic power supplies (PV))

References

Front operation

Rating (A)	No. of pole	Switch body	Direct handle	External handle	Shaft for external handle	Auxiliary contact	Terminal shrouds	Terminals protection screen	Inter phase barrier
100 A	3 P	26PV 3010	Black 2699 5052 ⁽¹⁾ Red 2699 5053	Type S2 Black IP55 1421 2111 ⁽¹⁾ Black IP65 1423 2111 Red IP65 1424 2111	200 mm 1400 1020 320 mm 1400 1032 ⁽¹⁾ 500 mm 1400 1050	1 st contact OF 2699 0031 2 nd contact OF 2699 0032			
	4 P	26PV 4010							
125 A	3 P	26PV 3012							
	4 P	26PV 4012							
160 A	3 P	26PV 3016							
	4 P	26PV 4016							
200 A	3 P	26PV 3020					3 P 2694 3021 ⁽²⁾ 4 P 2694 4021 ⁽²⁾	3 P 2698 3020 ⁽²⁾ 4 P 2698 4020 ⁽²⁾	3 P 2998 0023 4 P 2998 0024
	4 P	26PV 4020							
250 A	3 P	26PV 3025							
	4 P	26PV 4025							
315 A	3 P	26PV 3031							
	4 P	26PV 4031							
400 A	3 P	26PV 3040							
	4 P	26PV 4040							
500 A	3 P	26PV 3050							
	4 P	26PV 4050							
630 A	3 P	26PV 3063					3 P 2694 3051 ⁽²⁾ 4 P 2694 4051 ⁽²⁾	3 P 2698 3050 ⁽²⁾ 4 P 2698 4050 ⁽²⁾	3 P 2998 0013 4 P 2998 0014
	4 P	26PV 4063							
800 A	3 P	26PV 3080							
	4 P	26PV 4080							

(1) Standard.

(2) Top or bottom.

Accessories

Direct handle



Direct handle for SIRCO PV 100 ... 800 A

Rating (A)	Handle color	References
100 ... 800	Black	2699 5052 ⁽²⁾
100 ... 800	Red	2699 5053

(1) IP: Protection degree: according to IEC 60529.

(2) Standard.

Door interlocked external handle



S2-type handle

Use

The door interlocked external operation includes a padlockable handle, an escutcheon and must be combined with a shaft extension. In a combiner box, located close to the solar cell strings, or located close to the inverter, we recommend the use of a door interlocked external handle for its safety features.

Example

The locking function of the enclosure in the "ON" position will force the operator to safely disconnect and isolate the solar cell strings prior to any intervention. Opening the door when the switch is on "ON" position is possible by defeating the locking function with the use of a tool (authorized persons only). The locking function is restored when the door is closed back.

Front operation

Rating (A)	Handle	Handle color	External IP ⁽¹⁾	References
100 ... 800	Type S2	Black	IP55	1421 2111 ⁽²⁾
100 ... 800	Type S2	Black	IP65	1423 2111
100 ... 800	Type S2	Red	IP65	1424 2111

(1) IP: Protection degree according to IEC60529 standard.

(2) Standard.

Shaft guide for external operation



Shaft guide for external operation

Use

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

Description	References ⁽¹⁾
Shaft guide for external operation	1429 0000

(1) IP: Protection degree according to IEC60529 standard.

S type handle adapter



Use

Enables new S type handles to be mounted using old fixing holes for replacement or retrofit applications.

Dimensions

Adds 12 mm to the depth.

Handle color	External IP ⁽¹⁾	To be ordered in multiples of	References
Black	IP65	10	1493 0000

(1) IP: Protection degree: according to IEC 60529.

Alternative S-type handle cover colours



Use

For single lever handles type S1, S2 .
Other colours : please consult us.

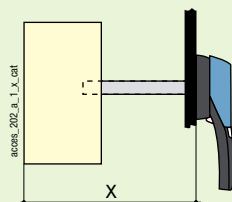
Handle color	To be commanded in multiples of	Handle	References ⁽¹⁾
Light grey	50	Type S1, S2	1401 0001
Dark grey	50	Type S1, S2	1401 0011

(1) IP: Protection degree: according to IEC 60529.

Shaft extensions for external handle



Shaft for SIRCO PV 100 ... 800 A



Use

Standard lengths:

- 200 mm
- 250 mm,
- 320 mm,
- 500 mm,
- 750 mm,

Other lengths: please consult us.

For 3/4 pole

Rating (A)	Dimension X (mm)	Shaft length (mm)	References
100 ... 800	135 ... 265	200 mm	1400 1020
100 ... 800	135 ... 315	250 mm	1400 1025
100 ... 800	135 ... 385	320 mm	1400 1032
100 ... 800	135 ... 565	500 mm	1400 1050
100 ... 800	135 ... 880	750 mm	1400 1075

Auxiliary contacts



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 connection.

Electrical characteristics

30 000 operations.

References

NO/NC contact for 3/4 pole

Rating (A)	No. of AC	References
100 ... 800	1 st	2699 0031
100 ... 800	2 nd	2699 0032

NO+NC contact for 3/4 pole

Rating (A)	No. of AC	References
100 ... 800	1 st	2699 0141
100 ... 800	2 nd	2699 0142

Low level NO/NC contact for 3/4 pole

Rating (A)	No. of AC	References
100 ... 800	1 st	2699 0301
100 ... 800	2 nd	2699 0302

Characteristics according to IEC 60947-5-1

Rating (A)	Contact type	Nominal current (A)	Operating current _{th} (A)									
			230 V a.c.		400 V a.c.		24 V d.c.		48 V d.c.			
			AC-12	AC-13/15	AC-12	AC-13/15	DC-12	DC-13	DC-14	DC-12	DC-13	DC-14
100 ... 800	NO/NC	16	16	4	12	3	2,5	2,5	1	2,5	1,2	0,2
100 ... 800	NO + NC	16	16	4	16	3	16	5	1	2,5	1,2	0,2

Door mounting kit

Use

This kit allows easy door mounting for the SIRCO PV range.

For 3/4-pole for direct front operation

Rating (A)	No. of pole	References
100 ... 500	3 P	2699 3420
100 ... 500	4 P	2699 4420

Terminal shrouds



access_077_a_1_cat

Use

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

Advantage

Perforations enabling remote thermographic inspection without dismantling.

For 3/4 pole

Rating (A)	No. of pole	Position	References
100 ... 500	3 P	top / bottom	2694 3021
100 ... 500	4 P	top / bottom	2694 4021
630 ... 800	3 P	top / bottom	2694 3051
630 ... 800	4 P	top / bottom	2694 4051

Terminal screens



access_078_a_1_cat

Use

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

For 3/4 pole

Rating (A)	No. of pole	Position	References
100 ... 500	3 P	top / bottom	2698 3020
100 ... 500	4 P	top / bottom	2698 4020
630 ... 800	3 P	top / bottom	2698 3050
630 ... 800	4 P	top / bottom	2698 4050

Inter phase barrier



access_096_a_1_cat

Use

Safety isolating separation between the terminals.

For 100 to 800 A Photovoltaic SIRCO, the inter phase barriers allow insulation between pole connected in series.

Rating (A)	No. of pole	References
100 ... 500	3 P	2998 0023
100 ... 500	4 P	2998 0024
630 ... 800	3 P	2998 0013
630 ... 800	4 P	2998 0014

Bridging bars for connecting pole in series

Use

The bridging bars will make easy the connection of the pole in series, allowing the following configurations:

- Bottom / Bottom
- Top / Top
- Top / Bottom
- Bottom / Top

Connection diagrams, see page 23.

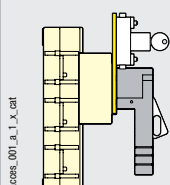
Rating (A)	Pack	Switch no. of pole	References
125 ... 315	1 piece ⁽¹⁾	2	2609 0025
125 ... 315	2 pieces ⁽²⁾	4	2609 2025
400 ... 500	2 pieces ⁽¹⁾	2	2609 2050
400 ... 500	4 pieces ⁽²⁾	4	2609 4050
630 ... 800	1 piece ⁽¹⁾	2	2609 0080
630 ... 800	2 pieces ⁽²⁾	4	2609 2080

⁽¹⁾ Connection in series of 2 poles of the device

⁽²⁾ Connection in series of 4 poles of the device

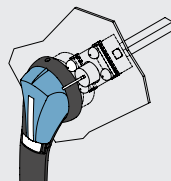
Handle key interlocking accessories

Fig. 1



access_001_a_1_x_cat

Fig. 3



access_198_a_1_x_cat

Use

Locking in position 0 of the front operation handle prior to any intervention on the photovoltaic installation:

- using a lock (not supplied) and the factory integrated padlocking function of the handle. From 100 to 800 A, the padlock on the external front operation handle will also lock the door,
- using padlock (not supplied) : see Fig. 1 and Fig. 3,
- using undervoltage coil: the SIRCO PV can only be switched in position "OFF" when the coil is supplied.

Locking using RONIS EL11AP lock (not included)

Rating (A)	No. of pole	Operation	Figure	References
100 ... 800	3/4 P	front direct	1	2699 6008 ⁽¹⁾
100 ... 800	3/4 P	external front	3	1499 7701

⁽¹⁾ Front operation handle included.

Locking using 230 V a.c. undervoltage coil (other voltages: please consult us)

Rating (A)	No. of pole	Operation	References
100 ... 800	3/4 P	external front	2699 9063 ⁽¹⁾

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

Customised solutions



Our SIRCO PV can be delivered enclosed, please consult us.

Close to the installation enclosed SIRCO PV will guarantee safe d.c. disconnection between the inverters and PV supplies. (requirement of IEC60364-712 standard)

For local safety disconnection, SOCOMEC - a leader on the market - offers the widest range of enclosed switches. Whatever the level of safety is, we are able to meet all your requirements (disconnection, switching for mechanical maintenance, emergency breaking).

Enclosed PV load break switches
Enclosed PV fuse combination switches
Enclosed PV changeover switches
Complete integrated equipment.

Available on request:

- Enclosures made of steel or stainless steel sheet metal (painted for sea environments or brushed), insulating materials
- Specific colors (enclosure paint, handle)
- Specific dimensions
- Specific connections: speed connectors of class II

Other specific accessories



- Mechanical coupling system to get multipolar switches of the same or different ratings
- Mechanical interlocking systems.

➤ Characteristics according to IEC 60947-3

100 to 800 A

Thermal current I _{th} (40°C)	100 A	125 A	160 A	200 A	250 A	315 A	400 A	500 A	630 A	800 A
Rated insulation voltage U _i (V)	1 200	1 200	1 200	1 200	1 200	1 200	1 200	1 200	1 200	1 200
Rated impulse withstand voltage U _{imp} (kV)	12 ⁽¹⁾	12 ⁽¹⁾	12 ⁽¹⁾	12 ⁽¹⁾	12 ⁽¹⁾	12 ⁽¹⁾	12 ⁽¹⁾	12 ⁽¹⁾	12	12

Rated operational currents I_e (A)

Rated voltage	No. of pole	Number of pole in series per polarity	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)
750 V d.c.	3 P	2 P + and 1 P -	100	125	160	200	250	315	400	500	630
1 000 V d.c.	4 P	2 P + and 2 P -	100	125	160	200	250	315	400	500	630

Overload capacity

Rated short-time withstand current 0.3 s. I _{cw} (kA eff) ⁽²⁾	17	17	17	17	17	17	17	17	25	25
Rated peak withstand current (kA peak) ⁽²⁾	30	30	30	30	30	30	30	30	45	45

Connection

Maximum Cu cable section (mm ²)	50	50	95	95	120	185	240	2 x 150	2 x 185	2 x 240
Maximum width Cu bar (mm)	32	32	32	32	32	32	32	32	40	50
Min tightening torque (Nm)	20	20	20	20	20	20	20	20	40	40
Max tightening torque (Nm)	26	26	26	26	26	26	26		45	45

Mechanical characteristics

Durability (number of cycles de operations)	10 000	10 000	10 000	10 000	10 000	10 000	5 000	5 000	5 000	5 000
Operating torque (Nm)	10	10	10	10	10	10	10	10	14,5	14,5
Weight of a 3 pole device (kg)	2	2	2	2	2	2	2	2	3,5	3,5
Weight of a 4 pole device (kg)	2	2	2	2	2	2	2	2	4	4

(1) The delivered spacers have to be installed

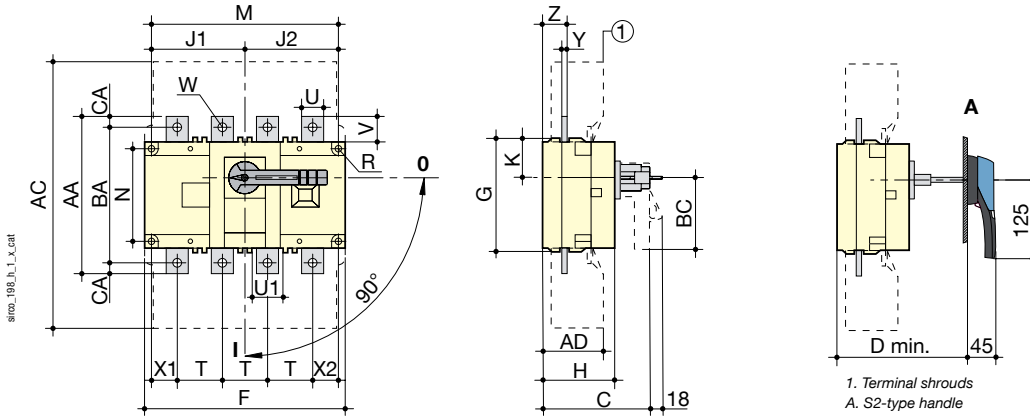
(2) For a rated operational voltage U_e = 400 V a.c.

Dimensions

SIRCO PV 100 to 800 A

Direct front operation

External front operation

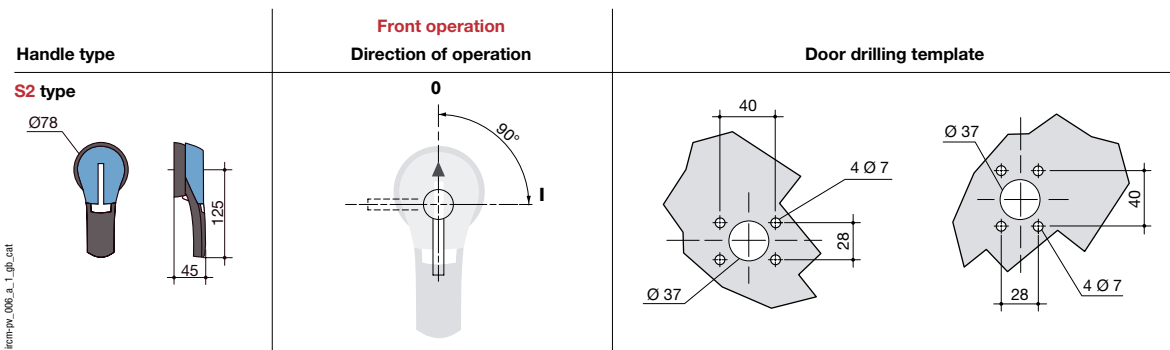


Rating (A)	Overall dimensions		Terminal shrouds		Switch body									Switch mounting				Connection terminal												
	C	D min	AC	AD	F 3p.	F 4p.	G	H	J1 3p.	J1 4p.	J2	K	BC	M 3p.	M 4p.	N	R	T	U	U1	V	W	X1 3p.	X1 4p.	X2	Y	Z	AA	BA	AC
100	125	135	280	60	180	230	108	75	55	105	105	34	115	160	210	80	5,5	50	25	25,5	30	11	33	33	27	3,5	22,5	160	130	15
125	125	135	280	60	180	230	108	75	55	105	105	34	115	160	210	80	5,5	50	25	25,5	30	11	33	33	27	3,5	22,5	160	130	15
160	125	135	280	60	180	230	108	75	55	105	105	34	115	160	210	80	5,5	50	25	25,5	30	11	33	33	27	3,5	22,5	160	130	15
200	125	135	280	60	180	230	108	75	55	105	105	34	115	160	210	80	5,5	50	25	25,5	30	11	33	33	27	3,5	22,5	160	130	15
250	125	135	280	60	180	230	108	75	55	105	105	34	115	160	210	80	5,5	50	25	25,5	30	11	33	33	27	3,5	22,5	160	130	15
315	125	135	280	60	180	230	108	75	55	105	105	34	115	160	210	80	5,5	50	25	25,5	30	11	33	33	27	3,5	22,5	160	130	15
400	125	135	280	60	180	230	108	75	55	105	105	34	115	160	210	80	5,5	50	35	25,5	30	11	33	33	27	3,5	22,5	160	130	15
500	125	135	280	60	180	230	108	75	55	105	105	34	115	160	210	80	5,5	50	35	25,5	30	11	33	33	27	3,5	22,5	160	130	15
630	160	165	400	89	230	290	170	110	75	135	135	55	115	210	270	140	7	65	45	45,5	50	13	42,5	37,5	37,5	5	36	260	220	20
800	160	165	400	89	230	290	170	110	75	135	135	55	115	210	270	140	7	65	45	45,5	50	13	42,5	37,5	37,5	5	36	260	220	20

Dimensions for external handles

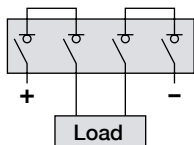
SIRCO PV 100 to 800 A

Dimensions for external handles

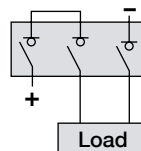


Pole in series connection diagrams⁽¹⁾

4 pole - bottom / bottom



3 poles - bottom / top



(1) Other connections: refer to mounting instructions.



Modular fuse disconnect 10 x 38 for PV applications

➤ Functions

RM PV are unipolar or bipolar modular fuse disconnects without signalisation specially design for PV 10x38 cylindrical fuses. They provide safety disconnection and protection against overcurrents in any low d.c. voltage photovoltaic applications.

➤ General characteristics

- Rated voltage of 1000 V d.c.
- Omnipolar and simultaneous breaking
- High dielectric strength.
- Modular DIN 45 mm cut-out.
- Self-extinguishing thermoplastic material.
- High capacity connection.

➤ Conformity to standards

- IEC 60947-3
- IEC 60269-2-1
- IEC 60269-1
- IEC 60269-2
- NF EN 60269-1
- NF C 63-210
- NF C 63211
- VDE 0636-10
- DIN 43620

➤ Approvals and certifications⁽¹⁾

⁽¹⁾ Please consult us.

References

RM - Device without signalisation

No. of pole	Pack qty	References
1 P	12	56DC 0015
2 P	6	56DC 0020



Accessories

Coupling system

acces_227_a_1_cat

Use
To link multiple single pole RM together

Coupling system for RM
Rating (A)

Rating (A)	References
32	5604 0003 ⁽¹⁾⁽²⁾

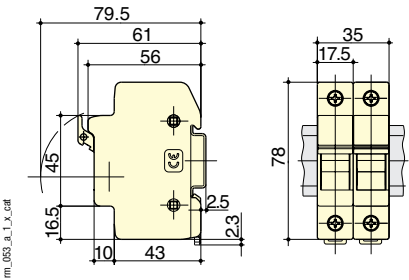
(1) 1 coupling device allows to link 2 RM/RMS.
(2) 1 reference = 1 pack of 10 coupling devices.

Characteristics according to IEC 60947-3

Thermal current I_{th} (20 °C)	32 A
Fuse size	10 x 38
Rated insulation voltage U_i (V)	1000
Fuse rating (A)	
Fuse rating (A)	4 to 20
Fuse protected short-circuit withstand	
Prospective short-circuit (kA rms) ⁽¹⁾	1.25 $\cdot$ I_n
Thermal current derating factors for N pole side by side	
N = 1 ... 3	1
N = 4 ... 6	0,8
N = 7 ... 9	0,7
N $\geq$ 10	0,6
Connection	
Minimum Cu cable section (mm ²)	4
Maximum Cu cable section (mm ²)	25 ⁽²⁾ / 16 ⁽³⁾
Mechanical characteristics	
Weight for 1P (kg)	0,1

(1) For a rated operational voltage U_n = 400 V a.c. - (2) Flexible cable. - (3) Rigid cable.

Dimensions





PV fuses 10 x 38 gR 900 V d.c. for photovoltaic applications

➤ **Function**

SOCOMECS **PV fuses** protect installations and people from overcurrents in any low d.c. voltage photovoltaic applications.

➤ **Advantages**

Performance

- High breaking capacity of 30 kA at 900 V d.c.
- High current limiting characteristics.
- Simple, reliable discrimination.

Reliability

- Fuses are simple and totally sealed products which guarantee a long-term protection without any maintenance.

Safety

- The energy released during a short-circuit is contained in the sealed fuse cartridge.

➤ **Conformity to standards**

- IEC 60947-3
- IEC 60269-1
- IEC 60269-2
- IEC 60269-2-1
- NF EN 60269-1
- NF C 63-210
- NF C 63211
- VDE 0636-10
- DIN 43620

➤ **Approvals and certifications⁽¹⁾**

⁽¹⁾ Please consult us.



What you need to know

When to protect?

Up to three strings in parallel, protection against overcurrents will not be necessary if the cable can withstand at least 1.25 I_{cc} (stc)⁽¹⁾ of the panels. However, starting from 4 strings, the overcurrent, although weak, may heat up the cables and therefore has to be limited.

How to protect?

The polarities cannot be earthed, therefore a fuse has to be installed on each polarity of each string.

Significant d.c. voltages

In a string, several photovoltaic modules are connected in series in order to obtain the desired d.c. voltage. These voltages can be high.

The fuse operating voltage must be 1.15 times the off-load voltage of the panels connected in series ($1.15 \times V_{co}$ (stc)⁽¹⁾ $\times M$). Our fuses have been designed to operate up to 900 volts.

Low overcurrents

As for PV panels, the short-circuit values generated in case of a fault are from two to three times the nominal current. Standard fuses are not suitable for this kind of protection and therefore, cannot be used.

These weak overvoltage values require the development of fuses capable of removing this type of fault.

Choosing the fuse rating

The fuse rating must be between 1.5 and 2 times the I_{cc} (stc)⁽¹⁾ current of each string.

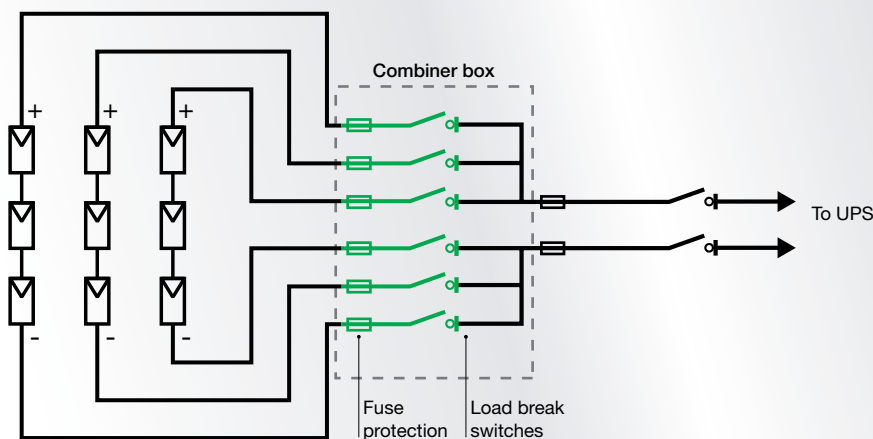
Choosing the cable

The cable must withstand a current over or equal to the cable fusing current.

Information for an effective protection

- M, number of modules in series
- N, number of strings in parallel
- I_{cc} (stc)⁽¹⁾, string fault current
- V_{co} (stc)⁽¹⁾, open circuit voltage

(1) stc : Standard Test Condition



➤ References

PV 900 V d.c. fuses - Size 10 x 38 mm

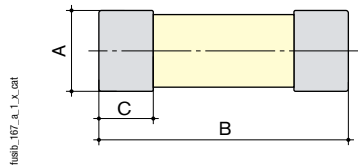


Pack of 10

Rated current I (A)	Rated voltage U (V d.c.)	Dissipated power		Breaking capacity	I ² t prearc (A ² s)	I ² t at 900 V d.c.	To be ordered	References
		at I _n (W)	at 0.8 I _n (W)					
4	900	1,10	1,85	30 kA	4	15	10	60DC 0004
6	900	1,45	2,50	30 kA	9	42	10	60DC 0006
8	900	0,95	1,60	30 kA	12	49	10	60DC 0008
10	900	1,25	2,15	30 kA	19	69	10	60DC 0010
12	900	1,40	2,40	30 kA	28	97	10	60DC 0012
16	900	1,80	3,10	30 kA	48	178	10	60DC 0016
20	900	2,20	3,80	30 kA	69	248	10	60DC 0020

➤ Standard dimensions (mm) as per IEC 60269-2-1

PV 10 x 38 mm
without striker



Size	Striker	A	B	C
10 x 38	Without	10,3	38	10,5



➤ Zoom



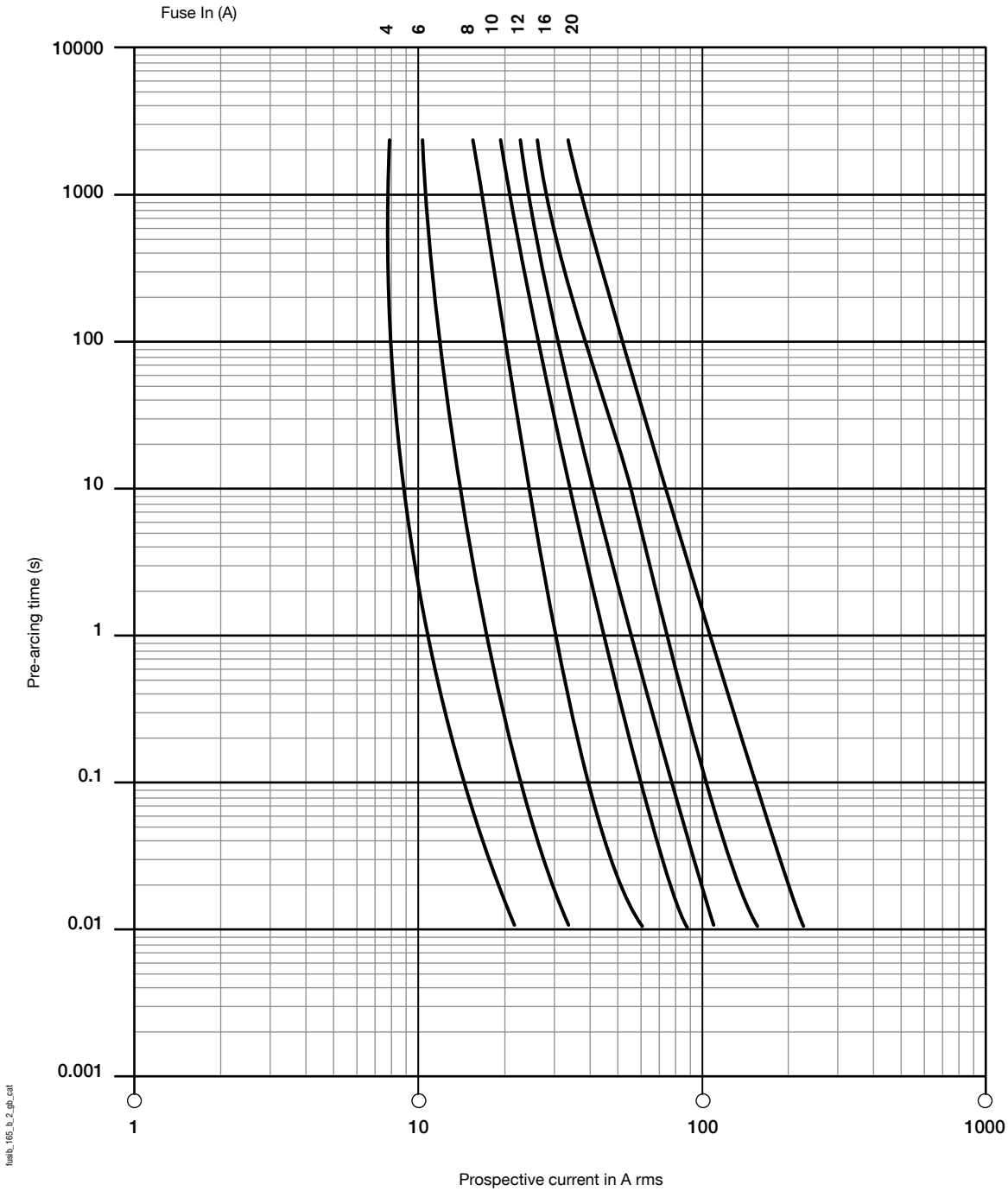
Fuse protection offers lots of benefits compared to the circuit breaker in a large number of industrial applications. With an experience of over 85 years, SOCOMEC offers a range of switches and components useful for building a complete fuse protection solution.

Designing an installation with fuse protection?
How to calculate a fuse protection?

The INSTALFUSE software carries out sizing calculations for low-voltage installations and fuse protection. Please consult us

➤ Time/current operation characteristics for PV fuses

PV 10 x 38 mm



fusib_165_b_2_gb_cat



srgs_008_a_1_cat

Type 2 "photovoltaic panels" surge arrestor

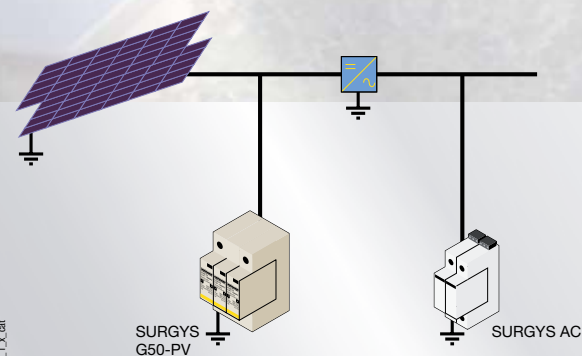
➤ Fonction

SURGYS® G50-PV surge protection is designed to ensure protection of photovoltaic supply networks against transient overvoltages.

➤ General characteristics

- Type 2 surge arrestor.
- Available with protection from 500 V d.c. to 1000 V d.c.
- Single-piece design.
- Common mode / differential mode protection.
- Remote signalisation contact (depending on reference).
- End of service life indicator.
- Pull-out module.

➤ Applications



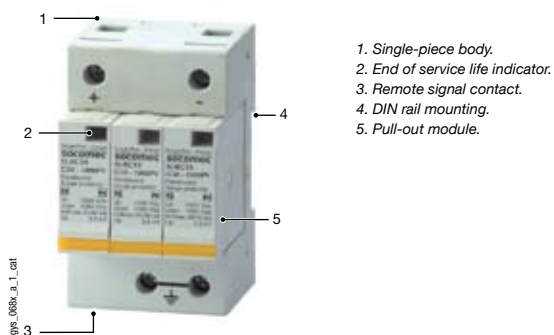
Protection installation in a photovoltaic network:

- SURGYS G50-PV is installed in the d.c. side, in the combiner box, close to the solar cell strings, for protecting the downstream d.c. equipments from the effects of lightning...
- SURGYS a.c. is installed in the a.c. side close to the inverter for protecting the downstream a.c. equipments from the effects of lightning

➤ Conformity to standards

- NF EN 61643-11 class 2 tests
- IEC 61643-1 class 2
- UTE C 15712
- UTE C 61740-51

Front panel



Characteristics

Mains

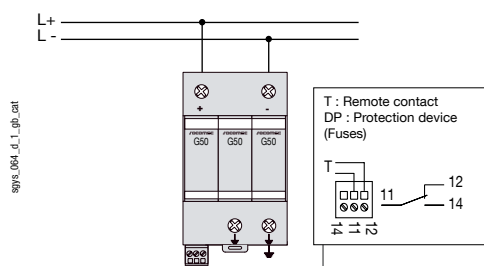
Network type	500 V d.c. / 600 V d.c. / 800 V d.c. / 1000 V d.c.
Nominal voltage U_n	500 V d.c. / 600 V d.c. / 800 V d.c. / 1000 V d.c.
Nominal voltage U_{cpr}	530 V d.c. (500V version) / 680 V d.c. (600 V version) / 840 V d.c. (800 V version) / 1060 V d.c. (1000 V version) UTE C 61740-51 compliant references: 600 V d.c. (500V version) / 720 V d.c. (600 V version) / 960 V d.c. (800 V version) / 1200 V d.c. (1000 V version)

Protection characteristics

Level of protection U_p	1,8 kV (500 V) / 2,5 kV (600 V) / 3 kV (800 V) / 3,6 kV (1000 V)
Maximum discharge current (1 shock 8/20 μ s) I_{max}	40 kA
Nominal discharge current (15 shocks 8/20 μ s) I_n	20 kA
Mode of protection	common and differential

Connections

Common mode / differential mode protection



Associated characteristics

Residual current I_c	< 0,1 mA
Response time t_r	< 25 ns
Follow current I_f	none
Prospective short-circuit current I_{cc}	25 kA
Type of disconnection indicator	mechanical
Number of disconnection indicators	1

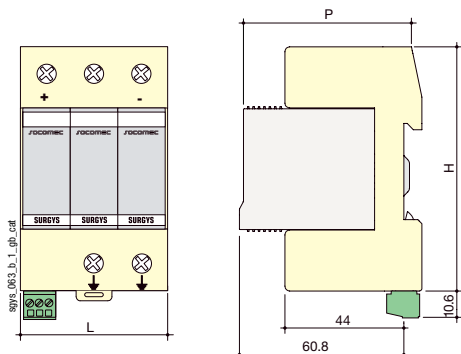
Remote signal contact characteristics

Contact type	inverter
a.c. closing capacity	0,5 A
d.c. closing capacity	2 A
a.c. nominal voltage	250 V a.c.
d.c. nominal voltage	30 V d.c.
Sustained current	2 A
Connection type	Terminal block
Max section of terminal connections	1,5 mm ²

Operating conditions

Operating temperature	-40 ... +85 °C
Storage temperature	-40 ... +85 °C

Case



Type	Modular single-piece design
2P dimensions L x H x P	36 x 90 x 67 mm
3P dimensions L x H x P	54 x 90 x 67 mm
Case protection degree	IP20
Terminal block protection degree	IP20
Case material	UL94-V0 thermoplastic
Network connection wire range	4 ... 25 mm ²
Earthing connection wire range	4 ... 25 mm ²

SURGYS® G50-PV
compliant with
UTE C 61740-51

SURGYS® G50-PV

References

Network d.c. voltage	Description	No. of pole	Mode of protection	No of adjacent cases (SURGYS G50-PV)	No of adjacent cases (SURGYS G50-PV UTE C 61740-51 compliant)	References	References
500	without remote signal	2	MC ⁽¹⁾	2	3	4982 2500	4982 1500
500	with remote signal	2	MC ⁽¹⁾	2	3	4982 2501	4982 1501
600	without remote signal	2	MC ⁽¹⁾	2	3	4982 2530	4982 1530
600	with remote signal	2	MC ⁽¹⁾	2	3	4982 2531	4982 1531
800	without remote signal	2	MC ⁽¹⁾ / MD ⁽²⁾	3	3	4982 2510	4982 1510
800	with remote signal	2	MC ⁽¹⁾ / MD ⁽²⁾	3	3	4982 2511	4982 1511
1000	without remote signal	2	MC ⁽¹⁾ / MD ⁽²⁾	3	3	4982 2520	4982 1520
1000	with remote signal	2	MC ⁽¹⁾ / MD ⁽²⁾	3	3	4982 2521	4982 1521

Accessories

Spare pull-out module m-G50-500PV	MC ⁽¹⁾	4982 0509
Spare pull-out module m-G50-600PV	MC ⁽¹⁾	4982 0539
Spare pull-out module m-G50-800PV	MC ⁽¹⁾ / MD ⁽²⁾	4982 0519
Spare pull-out module m-G50-1000PV	MC ⁽¹⁾ / MD ⁽²⁾	4982 0529

(1) Common mode
(2) Differential mode

Socomec worldwide

IN EUROPE

BELGIUM

SOCOMECH BELGIE

B - 1190 Brussel

Tel. +32 (0)2 340 02 30 - Fax +32 (0)2 346 28 99

be.scp.order@socomec.com

FRANCE

SOCOMECH

F - 67235 Benfeld Cedex

Tel. +33 (0)3 88 57 41 41 - Fax +33 (0)3 88 74 08 00

scp.vex@socomec.com

GERMANY

SOCOMECH GmbH

D - 76275 Ettlingen

Tel. +49 (0)7243 65 29 2 0 - Fax +49 (0)7243 65 29 2 13

info@socomec.com

ITALY

SOCOMECH Elettrotecnica s.r.l.

I - 20098 San Giuliano Milanese (MI)

Tel. +39 02 98 498 21 - Fax +39 02 98 243 310

it.scp.info@socomec.com

SPAIN

SOCOMECH ELECTRO, S.L.

E - 08310 Argentona (Barcelona)

Tel. +34 93 741 60 67 - Fax. +34 93 757 49 52

es.scp.info@socomec.com

THE NETHERLANDS

SOCOMECH B.V.

NL - 3992 De Houten

Tel. +31 (0)30 63 71 504 - Fax +31 (0)30 63 72 166

info@socomec.nl

UNITED KINGDOM

SOCOMECH Ltd

Hitchin Hertfordshire SG4 0TY

Tel. +44 (0)1462 440033 - Fax +44 (0)1462 431143

sales.uk.scp@socomec.com

IN ASIA

NORTH EAST ASIA

SOCOMECH CHINA

CN - 20030 P.R.C Shanghai

Tel. +86 21 5298 9555 - Fax +86 21 6228 3468

socomec@socomec-shanghai.com

SOUTH EAST ASIA & PACIFIC

SOCOMECH SWITCHING AND PROTECTION

UBI TECHPARK - Singapore

Tel. +65 65 07 94 90 - Fax +65 65 47 86 93

sg.scp.socomec@socomec.com

SOUTH ASIA

SOCOMECH-HPL PVT

Gurgaon, Haryana - India

Tel. +91 124 2210970 - 74 - Fax +91 124 2210976

in.scp.socomec-hpl@socomec.com

IN MIDDLE EAST

UNITED ARAB EMIRATES

SOCOMECH Middle East

Dubai, U.A.E.

Tel. +971 (0) 4 29 98 441 - Fax +971 (0)4 29 98 449

sales.ae.scp@socomec.com

IN NORTH AMERICA

USA, CANADA & MEXICO

SOCOMECH Inc

Cambridge, MA 02142 USA

Tel. +1 617 245 0447 - Fax +1 617 245 0437

us.scp.sales@socomec.com

HEAD OFFICE

SOCOMECH GROUP

S.A. SOCOMECH capital 11313400 €

R.C.S. Strasbourg B 548 500 149

B.P. 60010 - 1, rue de Westhouse

F-67235 Benfeld Cedex - FRANCE

INTERNATIONAL SALES DEPARTMENT

SOCOMECH

1, rue de Westhouse - B.P. 60010

F - 67235 Benfeld Cedex - FRANCE

Tel. +33 (0)3 88 57 41 41 - Fax +33 (0)3 88 74 08 00

scp.vex@socomec.com

Non contractual document. © 2010, Socomec SA. All rights reserved.



www.socomec.com

socomec
Innovative Power Solutions