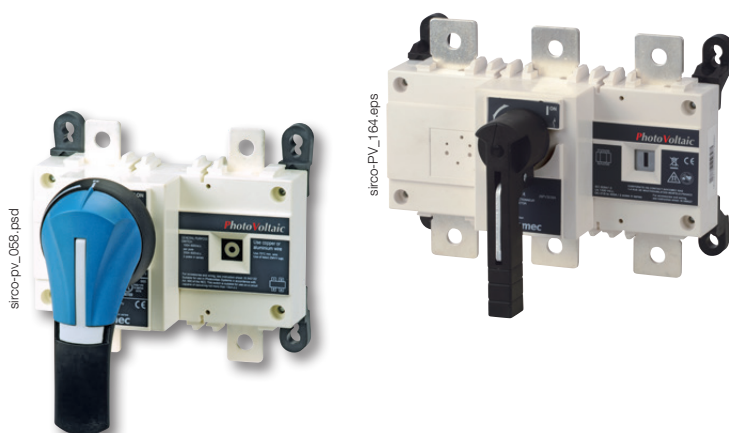


SIRCO PV IEC 60947-3

Load break switches for photovoltaic applications
from 100 to 3200 A, up to 1500 VDC



Function

SIRCO PV are manually operated load break switches. Making and breaking capacity under load conditions up to 1500 VDC. These extremely durable switches have been tested and approved for use in the most demanding applications. They have been designed and tested for all types of applications: grounded, floating or bipolar.

Advantages

Optimise your investment

- Thanks to a reduced number of bridging bars, you can limit your costs and save mounting time.
- A 2 poles SIRCO PV will reduce heating and can be integrated in a smaller enclosure.

High quality materials

SIRCO PV is an extremely robust device in a glass fibre reinforced polyester frame. This material provides:

- high mechanical strength,
- stability to temperature variations (RTI of 130°C),
- high dielectric strength (high CTI / tested as per standard ASTM D 2303).

Take advantage of an innovative design

The SIRCO PV can be directly connected to up to four independent PV panel strings. The global solution cost is therefore reduced in comparison with the use of four distinct switches.

Reliability and performance

Our range of SIRCO PV load break switches is compliant to standards UL98B and IEC 60947-3.

SIRCO PV have been tested to critical currents and at a 10 kA short-circuit during 50 ms without specific protection.

The solution for

- > Combiner box
- > Recombiner box
- > Inverter



Strong points

- > Patented switching technology up to 500 VDC/pole
- > Positive indication
- > Up to 1500 VDC according to IEC 60947-3

Conformity to standards

- > IEC 60947-3
- > IEC 60364-7-712
- > UL 98B⁽¹⁾



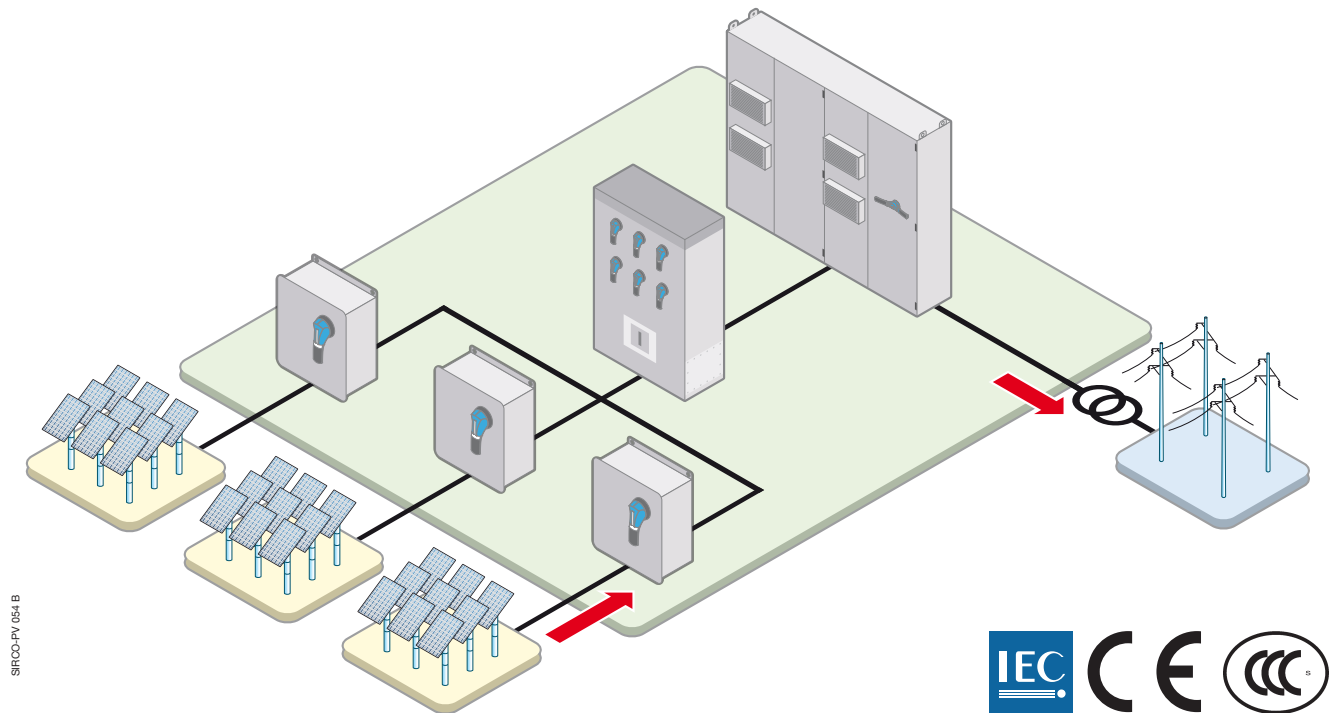
Approvals and certifications⁽¹⁾



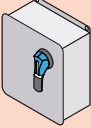
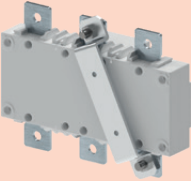
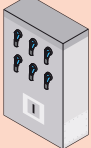
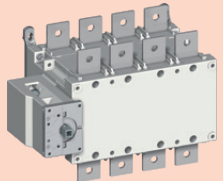
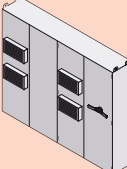
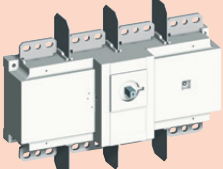
⁽¹⁾ Product reference on request.

Typical PV architecture

The SIRCO PV range provides safe disconnection and isolation at all levels within your PV installation.



The SOCOMEC solutions

| LEVEL OF INSTALLATION | SOCOMEK SOLUTIONS | | |
|-----------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Combiner box |  |  | SIRCO PV One circuit up to 400 A at 1500 VDC |
| Recombiner box |  |  | SIRCO PV 4 circuits up to 500 A at 1000 VDC ⁽¹⁾ 2 circuits up to 500 A at 1500 VDC |
| Inverter |  |  | SIRCO PV One circuit up to 3200 A at 1000 VDC up to 2000 A at 1500 VDC |

(1) Please consult us.

SIRCO PV IEC 60947-3

Load break switches for photovoltaic applications
from 100 to 3200 A, up to 1500 VDC

References

1000 VDC - Back mounting

| Rating (A) | Frame size | Number of poles | Switch body | Direct handle | External handle | Shaft for external handle | Quantity to be ordered to connect 2 poles in series | | | |
|----------------------|------------------|-----------------|-------------|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------|------------------|
| 1 PV circuit | | | | | | | | | | |
| 100 A | B4 | 2 P | 26PV 2010 | J1 type Black 1112 1111 Red 1113 1111 | S2 type ⁽¹⁾ Black IP55 1421 2111 Black IP65 1423 2111 Red/Yellow IP65 1424 2111 | 200 mm 1400 1020 320 mm 1400 1032 400 mm 1400 1040 | - | | | |
| 160 A | B4 | 2 P | 26PV 2016 | | | | | | | |
| 250 A | B4 | 2 P | 26PV 2025 | | | | | | | |
| 315 A | B4 | 2 P | 26PV 2031 | | | | | | | |
| 400 A | B4 | 4 P | 26PV 4040 | | | | J4 type Black 1142 1111 Red 1143 1111 | S4 type ⁽¹⁾ Black IP65 1443 3111 Red/Yellow IP65 1444 3111 | 200 mm 1401 1520 320 mm 1401 1532 400 mm 1401 1520 | 2 x 2609 0025 |
| 500 A | B4 | 4 P | 26PV 4050 | | | | | | | |
| 630 A | B5 | 4 P | 26PV 4063 | | | | | | | |
| 800 A | B5 | 4 P | 26PV 4080 | | | | | | | 2 x 2709 0027 |
| 1250 A | B6 | 4 P | 26PV 4120 | | | | J4 type Black 1142 1111 Red 1143 1111 | V1 type Black IP65 2799 7145 | 320 mm 2799 3018 450 mm 2799 3019 | 1 x 2609 1100 |
| 2000 A | B7 | 4 P | 26PV 4200 | 2 x 2609 1200 | | | | | | |
| 3200 A | B8 | 4 P | 26PV4320 | 2 x 2609 1200 | | | | | | |
| 2 PV circuits | | | | | | | | | | |
| 100 A | B4 _{DS} | 4 P | 26PV 5010 | J2 type Black 1122 1111 Red 1123 1111 | S2 type ⁽¹⁾ Black IP55 1421 2111 Black IP65 1423 2111 Red/Yellow IP65 1424 2111 | 200 mm 1400 1020 320 mm 1400 1032 400 mm 1400 1040 | - | | | |
| 160 A | B4 _{DS} | 4 P | 26PV 5016 | | | | | | | |
| 250 A | B4 _{DS} | 4 P | 26PV 5025 | | | | | | | |
| 315 A | B4 _{DS} | 4 P | 26PV 5031 | | | | | | | |
| 630 A | B5 _{DS} | 8 P | 26PV 8063 | J4 type Black 1142 1111 Red 1143 1111 | S4 type ⁽¹⁾ Black IP65 1443 3111 Red/Yellow IP65 1444 3111 | 200 mm 1401 1520 320 mm 1401 1532 400 mm 1401 1520 | 2 x 2709 0027 | | | |
| 800 A | B6 _{DS} | 8 P | 26PV 8080 | | | | V1 type Black IP65 2799 7145 | 320 mm 4199 3018 | 1 x 2609 1100 | |
| 1250 A | B6 _{DS} | 8 P | 26PV 8120 | | | | | | 1 x 2609 1200 | |
| 2000 A | B7 _{DS} | 8 P | 26PV 8200 | | | | | | | |

(1) Defeatable handle.

1500 VDC - Back mounting

| Rating (A) | Frame size | Number of poles | Switch body | Direct handle | External handle | Shaft for external handle | Quantity to be ordered to connect 2 poles in series | |
|---------------------|------------------|-----------------|-------------|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------|
| 1 PV circuit | | | | | | | | |
| 160 A | B4T | 3 P | 26PV 3015 | J1 type Black 1112 1111 Red 1113 1111 | S2 type ⁽¹⁾ Black IP55 1421 2111 Black IP65 1423 2111 Red/Yellow IP65 1424 2111 | 200 mm 1400 1020 320 mm 1400 1032 400 mm 1400 1040 | Standard bridging bar 1 x 2609 0026 | |
| 250 A | B4T | 3 P | 26PV 3024 | | | | | |
| 315 A | B4T | 3 P | 26PV 3030 | | | | | Back bridging bar 1 x 2609 0041 |
| 400 A | B4T | 3 P | 26PV 3039 | | | | | |
| 800 A | B6 _{DS} | 8 P | 26PV 8080 | J4 type Black 1142 1111 Red 1143 1111 | V1 type Black IP65 2799 7145 | 320 mm 4199 3018 | 1 x 2609 1100 | |
| 1250 A | B6 _{DS} | 8 P | 26PV 8120 | | | | 1 x 2609 1200 | |
| 2000 A | B7 _{DS} | 8 P | 26PV 8200 | | | | | |

(1) Defeatable handle.

Accessories

Direct operation handle

| Frame size | Handle type | Handle colour | Reference | |
|--------------------------------------|---------------------------------------|---------------|------------------|------------------|
| B4 ... B5 | B2 | Black | 2699 5052 | |
| | | Red | 2699 5053 | |
| | J1 | Black | 1112 1111 | |
| | | Red | 1113 1111 | |
| B6 ... B7 | J4 | Black | 1142 1111 | |
| | | Red | 1143 1111 | |
| | B4 _{DS} ... B5 _{DS} | B2 | Black | 2699 5052 |
| | | | Red | 2699 5053 |
| J4 | | Black | 1142 1111 | |
| | | Red | 1143 1111 | |
| B6 _{DS} ...B7 _{DS} | J2 | Black | 1122 1111 | |
| | | Red | 1123 1111 | |
| | J4 | Black | 1142 1111 | |
| | | Red | 1143 1111 | |
| B8 | J4 | Black | 1142 1111 | |
| | | Red | 1143 1111 | |



Door interlocked external operation handle

Use

Door interlocked external operation handles include an escutcheon, are padlockable and must be utilised with an extension shaft. In a combiner box, located close to the solar cell strings, or located close to the inverter, we recommend to use 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 using a tool (authorised persons only). The interlocking function is restored when the door is re-closed.

| Frame size | Handle type | Handle colour | Degree of protection | Reference |
|---------------------------------------|-------------|---------------|----------------------|------------------|
| B4 ... B5 | S2 | Black | IP55 | 1421 2111 |
| | S2 | Black | IP65 | 1423 2111 |
| | S2 | Red/ Yellow | IP65 | 1424 2111 |
| B6 ... B7 | S4 | Black | IP65 | 1443 3111 |
| | S4 | Red/ Yellow | IP65 | 1444 3111 |
| B8 | V1 | Black | IP65 | 2799 7145 |
| | S2 | Black | IP55 | 1421 2111 |
| B4 _{DS} | S2 | Black | IP65 | 1423 2111 |
| | S2 | Red/ Yellow | IP65 | 1424 2111 |
| B5 _{DS} | S4 | Black | IP65 | 1443 3111 |
| | S4 | Red/ Yellow | IP65 | 1444 3111 |
| B6 _{DS} ... B7 _{DS} | V1 | Black | IP65 | 2799 7145 |
| B8 | | | | |



SIRCO PV IEC 60947-3

Load break switches for photovoltaic applications

from 100 to 3200 A, up to 1500 VDC

Accessories (continued)

Shaft for external handle

Use

Standard lengths:

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

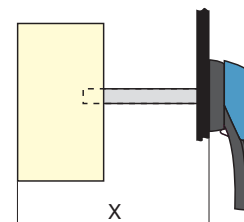
Other lengths: Please consult us.

| Frame size | Handle type | Dimensions X (mm) | Length (mm) | Reference |
|------------------|-------------|-------------------|-------------|-----------|
| B4 | S2 | 150 ... 295 | 200 | 1400 1020 |
| B4 | S2 | 150 ... 415 | 320 | 1400 1032 |
| B4 | S2 | 150 ... 495 | 400 | 1400 1040 |
| B5 | S2 | 203 ... 328 | 200 | 1400 1020 |
| B5 | S2 | 203 ... 448 | 320 | 1400 1032 |
| B5 | S2 | 203 ... 525 | 400 | 1400 1040 |
| B6 | S4 | 220 ... 343 | 200 | 1401 1520 |
| B6 | S4 | 220 ... 463 | 320 | 1401 1532 |
| B6 | S4 | 220 ... 543 | 400 | 1401 1540 |
| B7 | S4 | 305 ... 366 | 200 | 1401 1520 |
| B7 | S4 | 305 ... 485 | 320 | 1401 1532 |
| B7 | S4 | 305 ... 564 | 400 | 1401 1540 |
| B8 | V1 | 415 ... 690 | 320 | 2799 3018 |
| B8 | V1 | 415 ... 820 | 450 | 2799 3019 |
| B4 _{DS} | S2 | 210...310 | 200 | 1400 1020 |
| B4 _{DS} | S2 | 210...430 | 320 | 1400 1032 |
| B4 _{DS} | S2 | 210...510 | 400 | 1400 1040 |
| B5 _{DS} | S4 | 280...390 | 200 | 1401 1520 |
| B5 _{DS} | S4 | 280...510 | 320 | 1401 1532 |
| B5 _{DS} | S4 | 280...590 | 400 | 1401 1540 |
| B6 _{DS} | V1 | 425...577 | 320 | 4199 3018 |
| B6 _{DS} | V1 | 425...697 | 400 | 4199 3019 |
| B7 _{DS} | V1 | 425...697 | 320 | 4199 3018 |
| B7 _{DS} | V1 | 425...777 | 400 | 4199 3019 |



access_144.eps

access_369.eps



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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 | Reference |
|-------------|-----------|
| Shaft guide | 1429 0000 |



access_200_a_2_cat

S-type handle adapter

Use

Enables S-type handles to be fitted in place of existing older style Socomec handles.

Adapter can also be utilised as a spacer to increase the distance between the panel door and the handle lever.

Dimensions

Adds 12 mm to the depth of the handle.

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

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



access_167

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

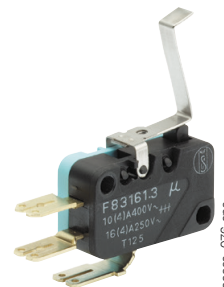
NO/NC AC: IP2 with front operation.

Connection to the control circuit

By 6.35 mm fast-on terminal.

Electrical characteristics

30 000 operations.



NO/NC changeover auxiliary contacts

| Frame size | Position AC | Type | Reference |
|---------------------------------------|-------------|-------|-----------|
| B4 ... B8 | 1 contact | NO/NC | 2699 0031 |
| B4 ... B8 | 2 contacts | NO/NC | 2699 0032 |
| B4 _{DS} ... B7 _{DS} | 1 contact | NO/NC | 2699 0061 |
| B4 _{DS} ... B7 _{DS} | 2 contacts | NO/NC | 2699 0062 |

Low level NO/NC auxiliary contacts

| Frame size | Position AC | Type | Reference |
|------------|-------------|-------|-----------|
| B4 ... B7 | 1 contact | NO/NC | 2699 0301 |
| B4 ... B7 | 2 contacts | NO/NC | 2699 0302 |

Terminal screen

Use

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

| Frame size | No. of poles | Position | Pack | Reference |
|------------------|--------------|----------------|---------|-----------|
| B4 | 2 P | Top or bottom | 1 unit | 2698 3020 |
| B4T | 3 P | Top or bottom | 1 unit | 2698 4020 |
| B4 | 4 P | Top or bottom | 1 unit | 2698 4020 |
| B5 | 3 P | Top or bottom | 1 unit | 2698 3050 |
| B5 | 4 P | Top or bottom | 1 unit | 2698 4050 |
| B6 | 4 P | Top or bottom | 1 unit | 2698 4080 |
| B7 | 4 P | Top or bottom | 1 unit | 2698 4120 |
| B8 | 4 P | Top or bottom | 1 unit | 2698 4200 |
| B4 _{DS} | 2 P | Top or bottom | 1 unit | 1509 3025 |
| B5 _{DS} | 6 P | Top and bottom | 2 units | 1509 3063 |
| B5 _{DS} | 8 P | Top and bottom | 2 units | 1509 4063 |
| B6 _{DS} | 8 P | Top and bottom | 2 units | 1509 4080 |



Inter-phase barrier

Use

Safe isolation between the terminals.

| Frame size | No. of poles | Reference |
|------------|--------------|-----------|
| B4 | 2 P | 2998 0023 |
| B4T | 3 P | 2998 0023 |
| B4 | 4 P | 2998 0024 |
| B5 | 4 P | 2998 0014 |
| B6...B8 | 3 P | Included |
| B6...B8 | 4 P | Included |

The inter-phase barriers are not mandatory but we recommend to separate the polarities + and -.

SIRCO PV IEC 60947-3

Load break switches for photovoltaic applications
from 100 to 3200 A, up to 1500 VDC

Accessories (continued)

Bridging bars for connecting poles in series

Use

The bridging bars permit easy connection of the poles in series, allowing the following configurations⁽¹⁾.

⁽¹⁾ Other connections: refer to mounting instructions.

1000 VDC - 1 independent PV circuit

| Switch body Reference | Rating (A) | Frame size | Fig. | Quantity of bridging bars kits to order per switch - ungrounded | Fig. | Reference |
|-----------------------|------------|------------------|------|-----------------------------------------------------------------|------|-----------|
| 26PV 4040 | 400 | B4 | | 4 | | 2609 0025 |
| 26PV 4050 | 500 | | | | | |
| 26PV 4063 | 630 | B5 | | 4 | | 2709 0027 |
| 26PV 4080 | 800 | | | | | |
| 26PV 4120 | 1250 | B6 | | 2 | | 2609 1100 |
| 26PV 4200 | 2000 | B7 | | 2 | | 2609 1200 |
| 26PV 4320 | 3200 | B8 | | 2 | | |
| 26PV 8063 | 630 | B5 _{DS} | | 8 | | 2709 0027 |
| 26PV 8080 | 800 | B6 _{DS} | | 4 | | 2609 1100 |
| 26PV 8120 | 1250 | | | | | |
| 26PV 8200 | 2000 | B7 _{DS} | | 4 | | 2609 1200 |

Bridging bars for connecting poles in series (continued)

Use

The bridging bars permit easy connection of the poles in series, allowing the following configurations⁽¹⁾.

(1) Other connections: refer to mounting instructions.

1500 VDC - 1 independent PV circuit

| Switch body Reference | Rating (A) | Frame size | Quantity to be ordered to connect 2 poles in series | Fig. | Quantity of bridging bars kits to order per switch - ungrounded | Fig. | Reference |
|-----------------------|------------|------------|-----------------------------------------------------|------|-----------------------------------------------------------------|------|-----------|
| 26PV 3015 | 160 | B4T | 1 | | 1 | | 2609 0026 |
| | | | | | | | 2609 0041 |
| 26PV 3024 | 250 | B4T | 1 | | 1 | | 2609 0026 |
| | | | | | | | 2609 0041 |
| 26PV 3030 | 315 | B4T | 1 | | 1 | | 2609 0026 |
| | | | | | | | 2609 0041 |
| 26PV 3039 | 400 | B4T | 1 | | 1 | | 2609 0026 |
| | | | | | | | 2609 0041 |

SIRCO PV IEC 60947-3

Load break switches for photovoltaic applications
from 100 to 3200 A, up to 1500 VDC

Accessories (continued)


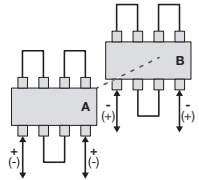


Bridging bars for connecting poles in series (continued)

Use

The bridging bars permit easy connection of the poles in series, allowing the following configurations⁽¹⁾.

⁽¹⁾ Other connections: refer to mounting instructions.

1500 VDC - 1 independent PV circuit

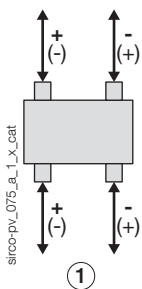
| Switch body Reference | Rating (A) | Frame size | Quantity to be ordered to connect 2 poles in series | Fig. | Quantity of bridging bars kits to order per switch - ungrounded | Fig. | Reference |
|-----------------------|------------|------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|
| 26PV 8080 | 800 | B6 _{DS} | 1 |  | 4 |  | 2609 1100 |
| 26PV 8120 | 1250 | B6 _{DS} | 1 |  | 4 | | 2609 1100 |
| 26PV 8200 | 2000 | B7 _{DS} | 1 |  | 4 | | 2609 1200 |

Characteristics

Characteristics according to IEC 60947-3

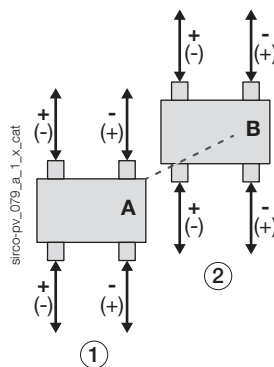
| Rated Current I_n | | | 100 A | | 160 A | | | 250 A | | | | |
|-----------------------------------------------------------|---------------|----------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-----|---|
| Reference | | | 26PV 2010 | 26PV 5010 | 26PV 2016 | 26PV 5016 | 26PV 3015 | 26PV 2025 | 26PV 5025 | 26PV 3024 | | |
| Frame size | | | B4 | B4 _{DS} | B4 | B4 _{DS} | B4T | B4 | B4 _{DS} | B4T | | |
| Thermal current at 40°C (A) | | | 100 | 100 | 160 | 160 | 160 | 250 | 250 | 250 | | |
| Thermal current at 45°C (A) | | | 100 | 100 | 160 | 160 | 160 | 250 | 250 | 250 | | |
| Thermal current at 50°C (A) | | | 100 | 100 | 160 | 160 | 160 | 250 | 250 | 250 | | |
| Thermal current at 55°C (A) | | | 100 | 100 | 160 | 160 | 160 | 250 | 250 | 250 | | |
| Thermal current at 60°C (A) | | | 100 | 100 | 160 | 160 | 160 | 250 | 250 | 250 | | |
| Thermal current at 65°C (A) | | | 100 | 100 | 160 | 160 | 152 | 250 | 250 | 237 | | |
| Thermal current at 70°C (A) | | | 100 | 100 | 160 | 160 | 144 | 250 | 250 | 225 | | |
| Rated insulation voltage U_i (V) | | | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | | |
| Rated impulse withstand voltage U_{imp} (kV) | | | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | | |
| Number of circuits | Rated voltage | Utilisation category | I_e (A) | | I_e (A) | | | I_e (A) | | | | |
| | | | I_e (A) | I_e (A) | I_e (A) | I_e (A) | I_e (A) | I_e (A) | I_e (A) | I_e (A) | | |
| I_e (A) | 1000 VDC | DC-21 B | 1 circuit | - | 100 | - | 160 | - | - | 250 | - | - |
| | | | 2 circuits | - | 100 | - | 160 | - | - | 250 | - | - |
| | 1500 VDC | DC-21 B | 1 circuit | - | - | - | - | - | - | - | - | - |
| | | | 2 circuits | - | - | - | - | - | - | - | - | - |
| | | DC-PV1 | 1 circuit | - | - | - | - | 160 | - | - | 250 | |
| Number of pole(s) in series per circuit | | | 1P+; 1P- ⁽¹⁾ | 1P+; 1P- ⁽²⁾ | 1P+; 1P- ⁽¹⁾ | 1P+; 1P- ⁽²⁾ | 2P+; 1P- ⁽³⁾ | 1P+; 1P- ⁽¹⁾ | 1P+; 1P- ⁽²⁾ | 2P+; 1P- ⁽³⁾ | | |
| Number of pole(s) of the device | | | 2 P | 4 P | 2 P | 4 P | 3 P | 2 P | 4 P | 3 P | | |
| Short-circuit capacity (without protection) | | | | | | | | | | | | |
| Rated short-time withstand current 0.3 s. (kA eff) | | | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | | |
| Rated short-time withstand current 1 s. (kA eff) | | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | | |
| Power dissipation per poles of the PV switch (W/P) @ 40°C | | | 0.8 | 0.8 | 2 | 2 | 2.5 | 4.7 | 4.7 | 5 | | |
| Humidity according to IEC 60947-1 Annexe Q (%) | | | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | | |
| Connection | | | | | | | | | | | | |
| Nominal Cu cable section (mm ²) | | | 35 | 35 | 70 | 70 | 70 | 120 | 120 | 120 | | |
| Nominal Cu busbar width (mm) | | | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | | |

(1)

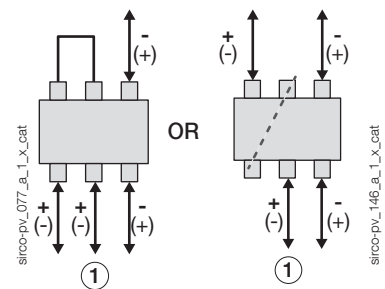


1. Utility 1
2. Utility 2

(2)



(3)



SIRCO PV IEC 60947-3

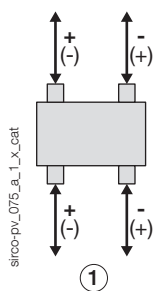
Load break switches for photovoltaic applications
from 100 to 3200 A, up to 1500 VDC

Characteristics (continued)

Characteristics according to IEC 60947-3

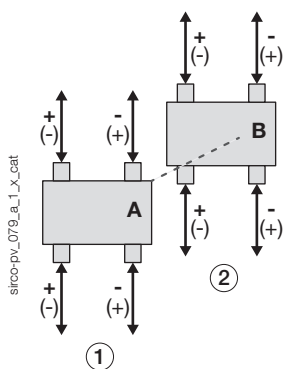
| Rated Current I_n | | | | 315 A | | |
|-----------------------------------------------------------|---------------|----------------------|-----------|-------------------------|-------------------------|-------------------------|
| Reference | | | | 26PV 2031 | 26PV 5031 | 26PV 3030 |
| Frame size | | | | B4 | B4_{DS} | B4T |
| Thermal current at 40°C (A) | | | | 315 | 315 | 315 |
| Thermal current at 45°C (A) | | | | 315 | 315 | 315 |
| Thermal current at 50°C (A) | | | | 315 | 315 | 315 |
| Thermal current at 55°C (A) | | | | 315 | 315 | 315 |
| Thermal current at 60°C (A) | | | | 315 | 315 | 315 |
| Thermal current at 65°C (A) | | | | 315 | 315 | 299 |
| Thermal current at 70°C (A) | | | | 315 | 315 | 283 |
| Rated insulation voltage U_i (V) | | | | 1500 | 1500 | 1500 |
| Rated impulse withstand voltage U_{imp} (kV) | | | | 12 | 12 | 12 |
| Number of circuits | Rated voltage | Utilisation category | I_e (A) | I_e (A) | I_e (A) | |
| I_e (A) | 1 circuit | 1000 VDC | 315 | 315 | - | |
| | 2 circuits | | - | | - | |
| | 1 circuit | 1500 VDC | - | - | - | |
| | 2 circuits | | - | | - | |
| 1 circuit | | DC-PV1 | - | - | 315 | |
| Number of pole(s) in series per circuit | | | | 1P+; 1P ⁻⁽¹⁾ | 1P+; 1P ⁻⁽²⁾ | 2P+; 1P ⁻⁽³⁾ |
| Number of pole(s) of the device | | | | 2 P | 4 P | 3 P |
| Short-circuit capacity (without protection) | | | | | | |
| Rated short-time withstand current 0.3 s. (kA eff) | | | | 10 | 10 | 10 |
| Rated short-time withstand current 1 s. (kA eff) | | | | 5 | 5 | 5 |
| Power dissipation per poles of the PV switch (W/P) @ 40°C | | | | 8 | 8 | 9.5 |
| Humidity according to IEC 60947-1 Annexe Q (%) | | | | 95 | 95 | 95 |
| Connection | | | | | | |
| Nominal Cu cable section (mm ²) | | | | 185 | 185 | 185 |
| Nominal Cu busbar width (mm) | | | | 32 | 32 | 32 |

(1)

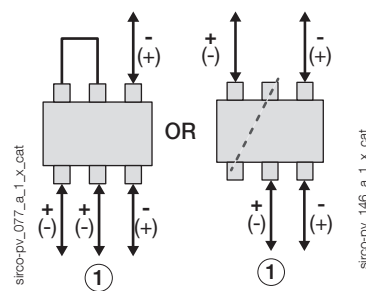


1. Utility 1
2. Utility 2

(2)



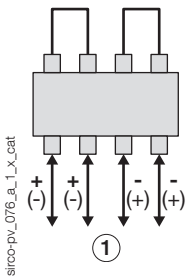
(3)



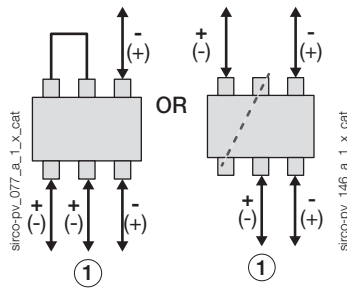
Characteristics according to IEC 60947-3

| Rated Current I_n | | | | 400 A | | 500 A |
|-----------------------------------------------------------|---------------|----------------------|-----------|-------------------------|-------------------------|-------------------------|
| Reference | | | | 26PV 4040 | 26PV 3039 | 26PV 4050 |
| Frame size | | | | B4 | B4T | B4 |
| Thermal current at 40°C (A) | | | | 400 | 400 | 500 |
| Thermal current at 45°C (A) | | | | 400 | 400 | 500 |
| Thermal current at 50°C (A) | | | | 400 | 400 | 500 |
| Thermal current at 55°C (A) | | | | 400 | 400 | 500 |
| Thermal current at 60°C (A) | | | | 400 | 400 | 500 |
| Thermal current at 65°C (A) | | | | 380 | 380 | 475 |
| Thermal current at 70°C (A) | | | | 360 | 360 | 450 |
| Rated insulation voltage U_i (V) | | | | 1500 | 1500 | 1500 |
| Rated impulse withstand voltage U_{imp} (kV) | | | | 12 | 12 | 12 |
| Number of circuits | Rated voltage | Utilisation category | I_e (A) | I_e (A) | I_e (A) | |
| I_e (A) | 1 circuit | 1000 VDC | 400 | - | 500 | |
| | 2 circuits | | - | - | - | |
| | 1 circuit | 1500 VDC | - | - | - | |
| | 2 circuits | | - | - | - | |
| | 1 circuit | | DC-PV1 | 400 | - | |
| Number of pole(s) in series per circuit | | | | 2P+; 2P- ⁽¹⁾ | 2P+; 1P- ⁽²⁾ | 2P+; 2P- ⁽¹⁾ |
| Number of pole(s) of the device | | | | 4 P | 3 P | 4 P |
| Short-circuit capacity (without protection) | | | | | | |
| Rated short-time withstand current 0.3 s. (kA eff) | | | | 10 | 10 | 10 |
| Rated short-time withstand current 1 s. (kA eff) | | | | 5 | 5 | 5 |
| Power dissipation per poles of the PV switch (W/P) @ 40°C | | | | 20 | 15 | 30 |
| Humidity according to IEC 60947-1 Annexe Q (%) | | | | 95 | 95 | 95 |
| Connection | | | | | | |
| Nominal Cu cable section (mm ²) | | | | 240 | 240 | 2 x 150 |
| Nominal Cu busbar width (mm) | | | | 32 | 32 | 32 |

(1)



(2)



SIRCO PV IEC 60947-3

Load break switches for photovoltaic applications

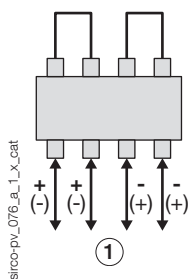
from 100 to 3200 A, up to 1500 VDC

Characteristics (continued)

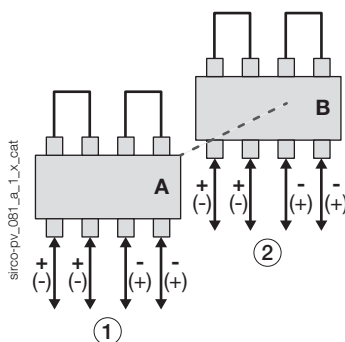
Characteristics according to IEC 60947-3

| Rated Current I_n | | | 630 A | | 800 A | | |
|-----------------------------------------------------------|---------------|----------------------|-------------------------|-------------------------|-------------------------|-------------------------|-----|
| Reference | | | 26PV 4063 | 26PV 8063 | 26PV 4080 | 26PV 8080 | |
| Frame size | | | B5 | B5 _{DS} | B5 | B5 _{DS} | |
| Thermal current at 40°C (A) | | | 630 | 630 | 800 | 800 | |
| Thermal current at 45°C (A) | | | 630 | 630 | 760 | 760 | |
| Thermal current at 50°C (A) | | | 630 | 630 | 720 | 720 | |
| Thermal current at 55°C (A) | | | 630 | 630 | 685 | 685 | |
| Thermal current at 60°C (A) | | | 560 | 560 | 650 | 650 | |
| Thermal current at 65°C (A) | | | 540 | 540 | 620 | 620 | |
| Thermal current at 70°C (A) | | | 510 | 510 | 590 | 590 | |
| Rated insulation voltage U_i (V) | | | 1500 | 1500 | 1200 | 1500 | |
| Rated impulse withstand voltage U_{imp} (kV) | | | 12 | 12 | 12 | 12 | |
| Number of circuits | Rated voltage | Utilisation category | I_e (A) | I_e (A) | I_e (A) | I_e (A) | |
| I_e (A) | 1 circuit | 1000 VDC | DC-21 B | 630 | - | 800 | - |
| | 2 circuits | | | - | 630 | - | 800 |
| | 1 circuit | 1500 VDC | DC-21 B | - | - | - | 800 |
| | 2 circuits | | | - | - | - | - |
| Number of pole(s) in series per circuit | | | 2P+; 2P- ⁽¹⁾ | 2P+; 2P- ⁽²⁾ | 2P+; 2P- ⁽¹⁾ | 2P+; 2P- ⁽²⁾ | |
| Number of pole(s) of the device | | | 4 P | 8 P | 4 P | 8 P | |
| Short-circuit capacity (without protection) | | | | | | | |
| Rated short-time withstand current 0.3 s. (kA eff) | | | 10 | 10 | 10 | 10 | |
| Rated short-time withstand current 1 s. (kA eff) | | | 5 | 5 | 5 | 5 | |
| Power dissipation per poles of the PV switch (W/P) @ 40°C | | | 40 | 40 | 70 | 70 | |
| Humidity according to IEC 60947-1 Annexe Q (%) | | | 95 | 95 | 95 | 95 | |
| Connection | | | | | | | |
| Nominal Cu cable section (mm ²) | | | 2 x 185 | 2 x 185 | 2 x 240 | 2 x 240 | |
| Nominal Cu busbar width (mm) | | | 40 | 40 | 50 | 50 | |

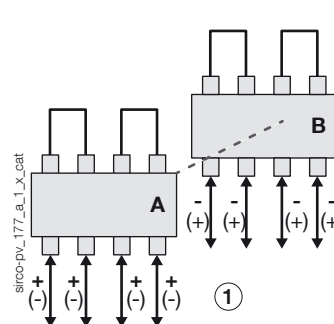
(1)



(2)



(3)

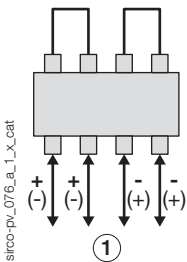


1. Utility 1
2. Utility 2

Characteristics according to IEC 60947-3

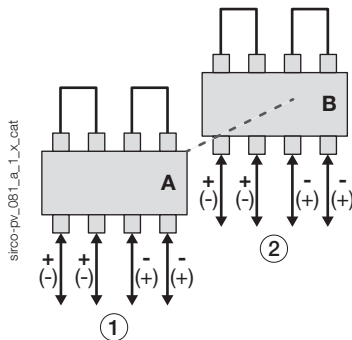
| Rated Current I_n | | | 1250 A | | | 2000 A | | | 3200 A |
|-----------------------------------------------------------|---------------|----------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Reference | | | 26PV 4120 | 26PV 8120 | | 26PV 4200 | 26PV 8200 | | 26PV 4320 |
| Frame size | | | B6 | B6 _{DS} | | B7 | B7 _{DS} | | B8 |
| Thermal current at 40°C (A) | | | 1250 | 1250 | | 2000 | 2000 | | 3200 |
| Thermal current at 45°C (A) | | | 1250 | 1250 | | 2000 | 2000 | | 3200 |
| Thermal current at 50°C (A) | | | 1250 | 1250 | | 1850 | 1850 | | 3200 |
| Thermal current at 55°C (A) | | | 1180 | 1180 | | 1730 | 1730 | | 3040 |
| Thermal current at 60°C (A) | | | 1125 | 1125 | | 1600 | 1600 | | 2888 |
| Thermal current at 65°C (A) | | | 1050 | 1050 | | 1520 | 1520 | | 2743 |
| Thermal current at 70°C (A) | | | 1000 | 1000 | | 1440 | 1440 | | 2606 |
| Rated insulation voltage U_i (V) | | | - | - | | 1500 | 1500 | | 1500 |
| Rated impulse withstand voltage U_{imp} (kV) | | | 12 | 12 | | 12 | 12 | | 12 |
| Number of circuits | Rated voltage | Utilisation category | I_e (A) | I_e (A) | I_e (A) | I_e (A) | I_e (A) | I_e (A) | I_e (A) |
| I_e (A) | 1 circuit | 1000 VDC | DC-21 B | 1250 | - | - | 2000 | - | 3200 |
| | 2 circuits | | | - | 1250 | - | - | 2000 | - |
| | 1 circuit | 1500 VDC | DC-21 B | - | - | 1250 | - | - | 2000 |
| | 2 circuits | | | - | - | - | - | - | - |
| Number of pole(s) in series per circuit | | | 2P+; 2P- ⁽¹⁾ | 2P+; 2P- ⁽²⁾ | 4P+; 4P- ⁽³⁾ | 2P+; 2P- ⁽¹⁾ | 2P+; 2P- ⁽²⁾ | 4P+; 4P- ⁽³⁾ | 4P+; 4P- ⁽¹⁾ |
| Number of pole(s) of the device | | | 4 P | 8 P | | 4 P | 8 P | | 4 P |
| Short-circuit capacity (without protection) | | | | | | | | | |
| Rated short-time withstand current 0.3 s. (kA eff) | | | 10 | 10 | | 10 | 10 | | 10 |
| Rated short-time withstand current 1 s. (kA eff) | | | 5 | 5 | | 5 | 5 | | 5 |
| Power dissipation per poles of the PV switch (W/P) @ 40°C | | | - | 63 | | - | 125 | | - |
| Humidity according to IEC 60947-1 Annexe Q (%) | | | 95 | 95 | | 95 | 95 | | 95 |
| Connection | | | | | | | | | |
| Nominal Cu cable section (mm ²) | | | 2 x 240 | 2 x 240 | | - | - | | - |
| Nominal Cu busbar width (mm) | | | 63 | 63 | | 100 | 100 | | 4 x 100 x 5 |

(1)

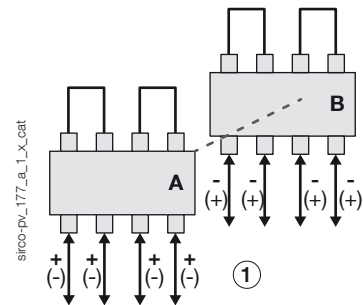


- 1. Utility 1
- 2. Utility 2

(2)



(3)



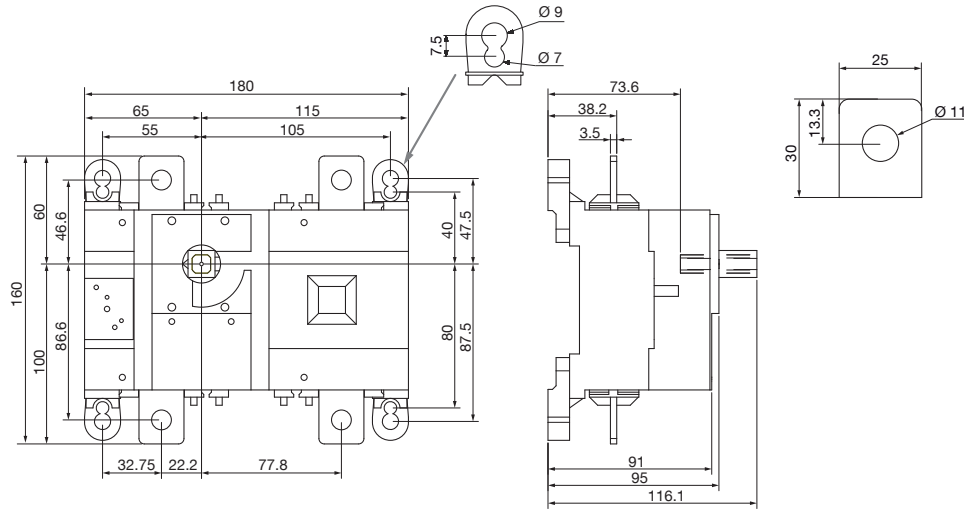
SIRCO PV IEC 60947-3

Load break switches for photovoltaic applications
from 100 to 3200 A, up to 1500 VDC

Dimensions (mm)

100 to 315 A - B4 - 2P - 1000 VDC - 1 circuit

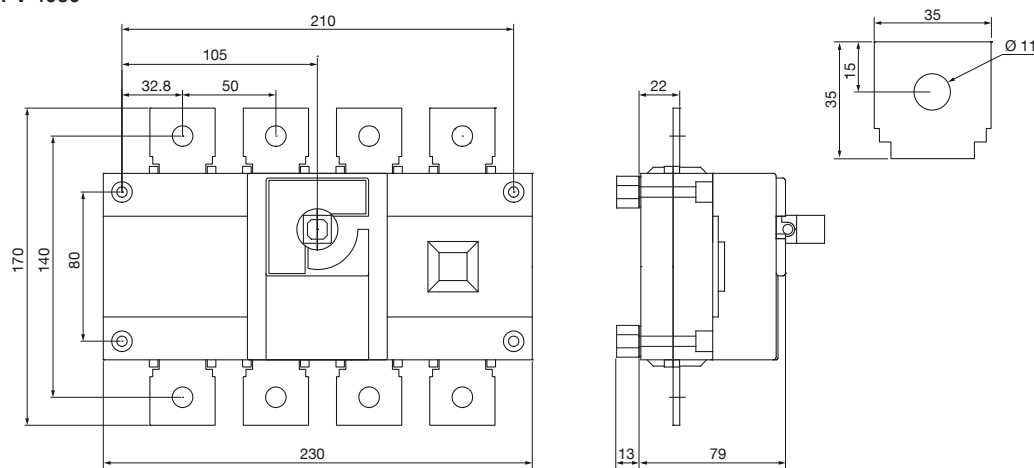
26PV 2010 - 26PV 2016 - 26PV 2025 - 26PV 2031



sirco-pv_141_a_1_x_catal

400 to 500 A - B4 - 4P - 1000 VDC - 1 circuit

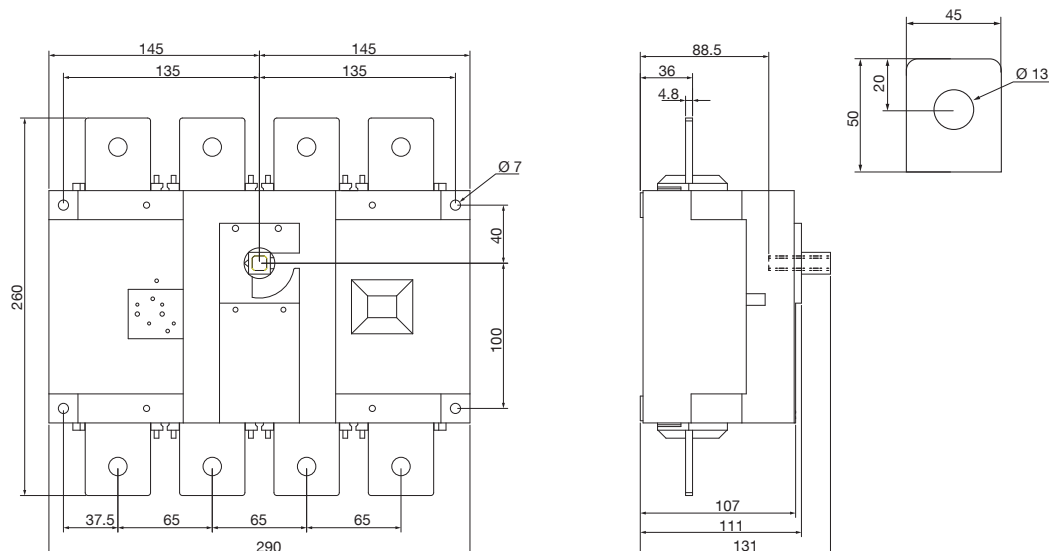
26PV 4040 - 26PV 4050



sirco-pv_142_a_1_x_catal

630 to 800 A - B5 - 4P - 1000 VDC - 1 circuit

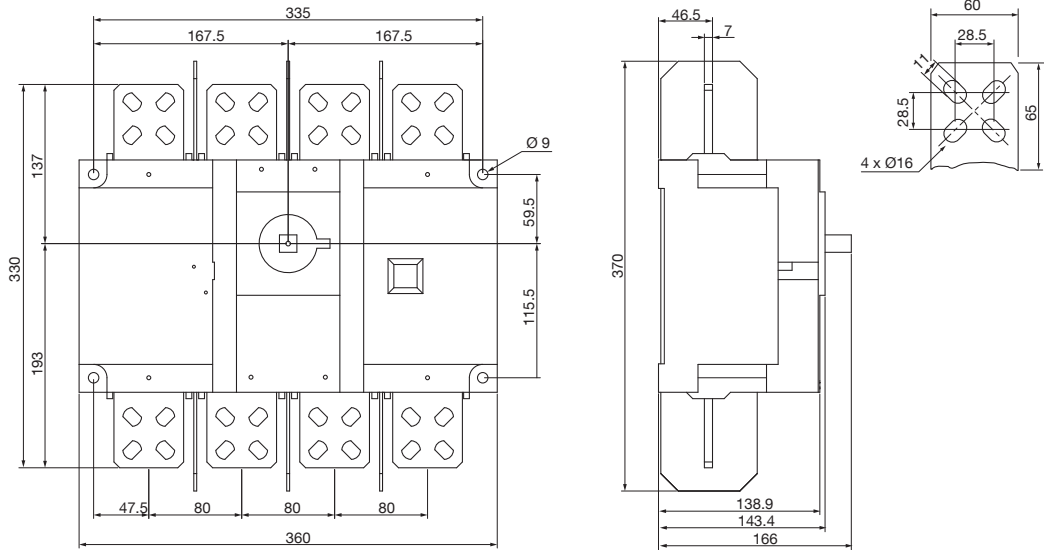
26PV 4063 - 26PV 4080



sirco-pv_143_a_1_x_catal

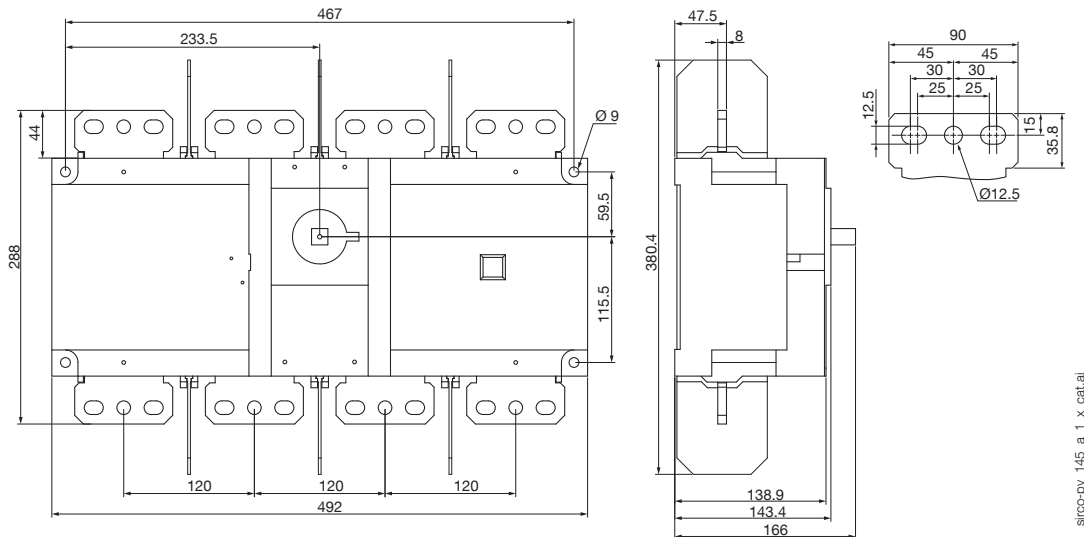
1250 A - B6 - 4P - 1000 VDC - 1 circuit

26PV 4120



2000 A - B7 - 4P - 1000 VDC - 1 circuit

26PV 4200



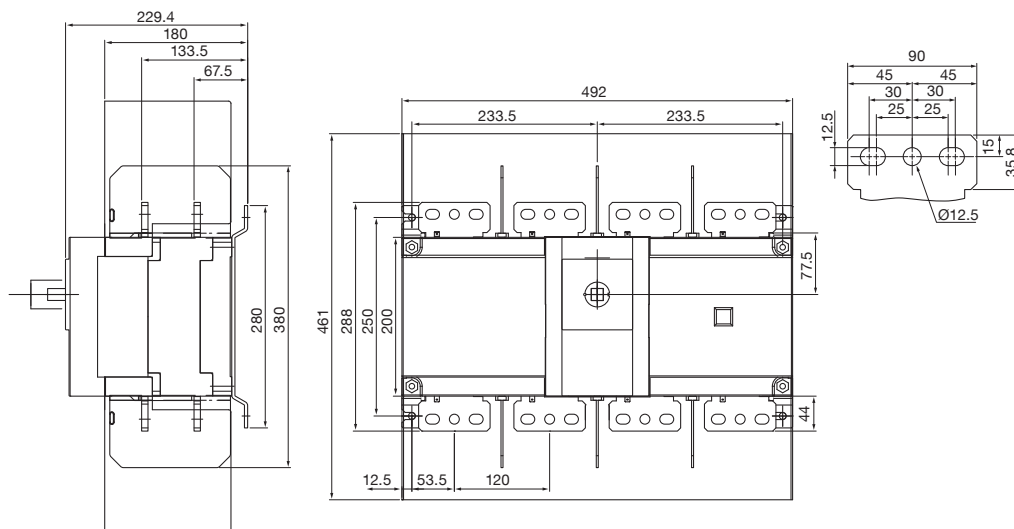
SIRCO PV IEC 60947-3

Load break switches for photovoltaic applications
from 100 to 3200 A, up to 1500 VDC

Dimensions (mm) (continued)

3200 A - B8 - 4P - 1000 VDC - 1 circuit

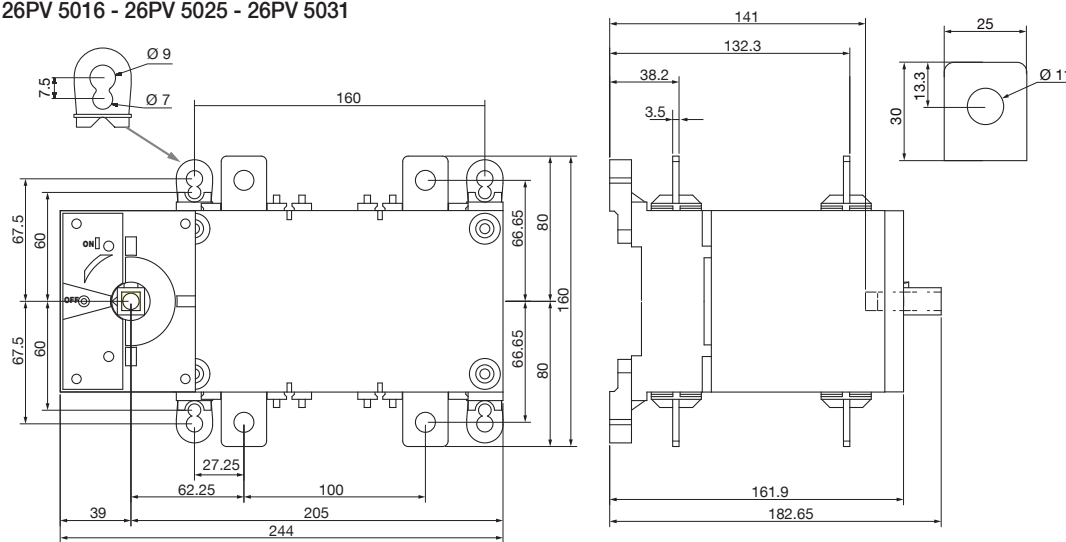
26PV 4320



sirco-pv_147_a_1_x_cat.ai

100 to 315 A - B4_{DS} - 4P - 1000 VDC - 2 circuits

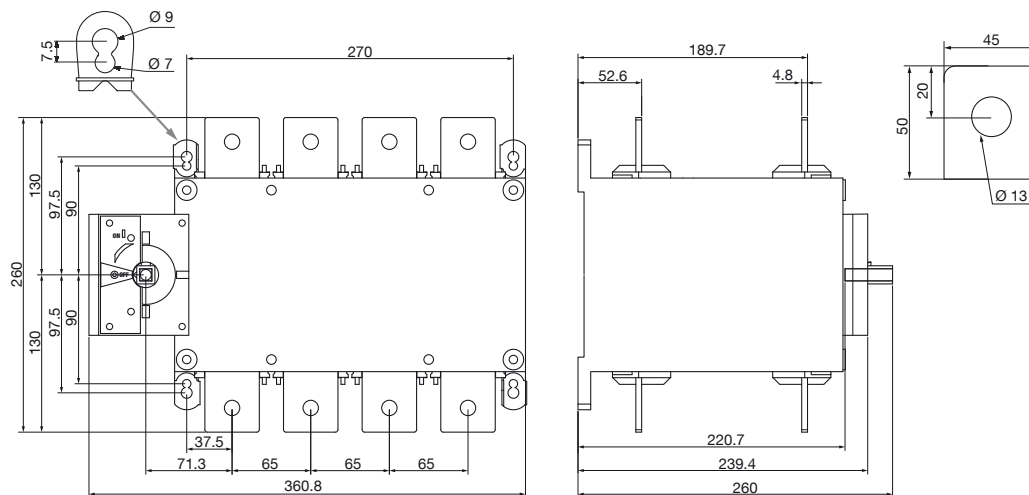
26PV 5010 - 26PV 5016 - 26PV 5025 - 26PV 5031



sirco-pv_148_a_1_x_cat.ai

630 A - B5_{DS} - 8P - 1000 VDC - 2 circuits

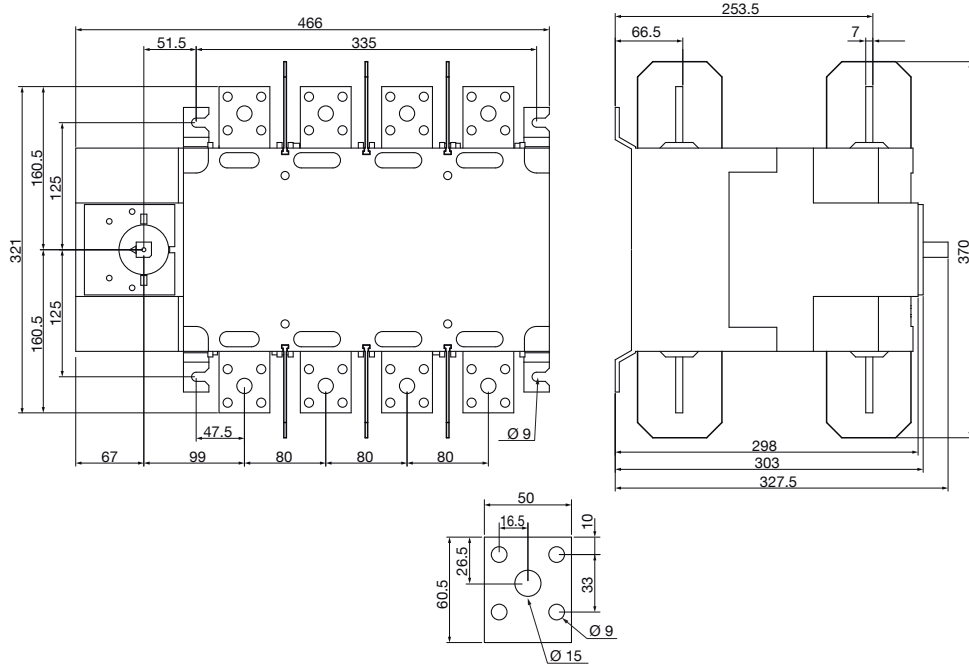
26PV 8063



sirco-pv_150_a_1_x_cat.ai

800 A - B6_{DS} - 8P - 1000 VDC - 2 circuits

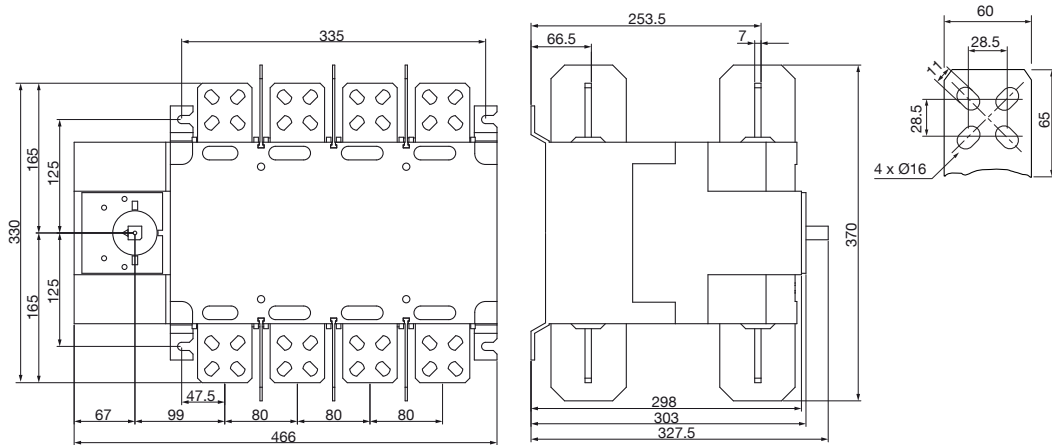
26PV 8080



sirco-pv_151_a_1_x_cat.ai

1250 A - B6_{DS} - 8P - 1000 VDC - 2 circuits

26PV 8120



sirco-pv_152_a_1_x_cat.ai

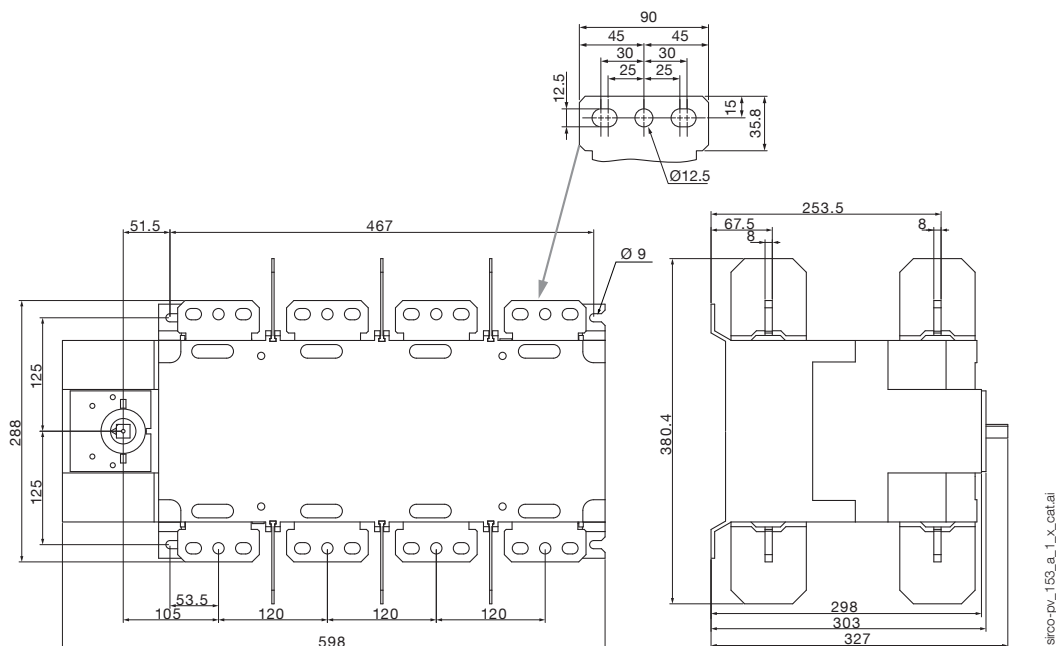
SIRCO PV IEC 60947-3

Load break switches for photovoltaic applications
from 100 to 3200 A, up to 1500 VDC

Dimensions (mm) (continued)

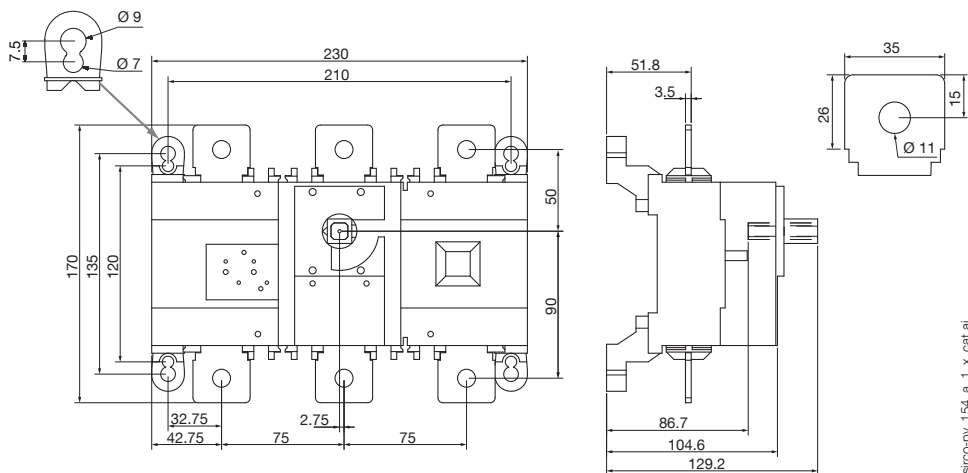
2000 A - B7_{DS} - 8P - 1000 VDC - 2 circuits

26PV 8200



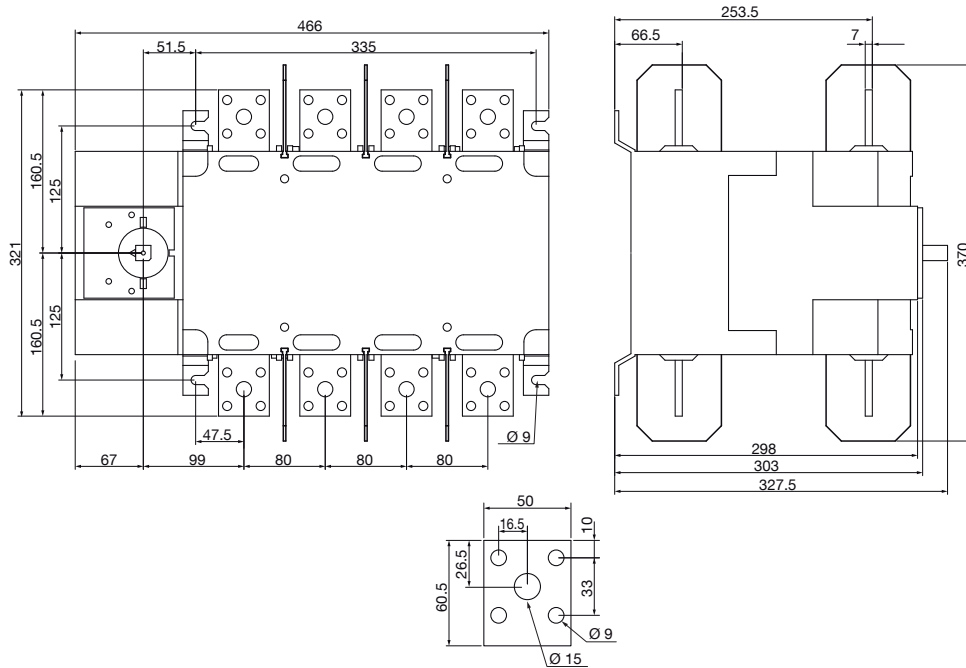
160 to 400 A - B4T - 3P - 1500 VDC - 1 circuit

26PV 3015 - 26PV 3024 - 26PV 3030 - 26PV 3039



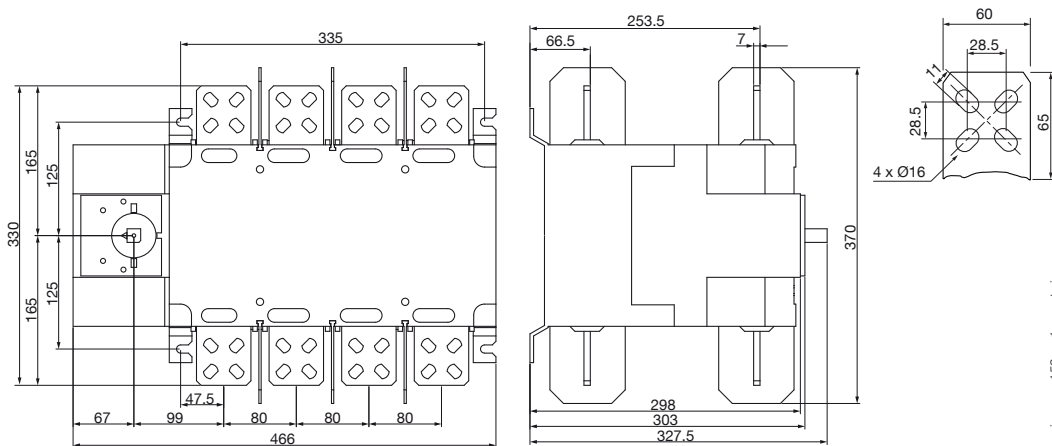
800 A - B6_{DS} - 8P - 1500 VDC - 1 circuit

26PV 8080



1250 A - B6_{DS} - 8P - 1500 VDC - 1 circuit

26PV 8120



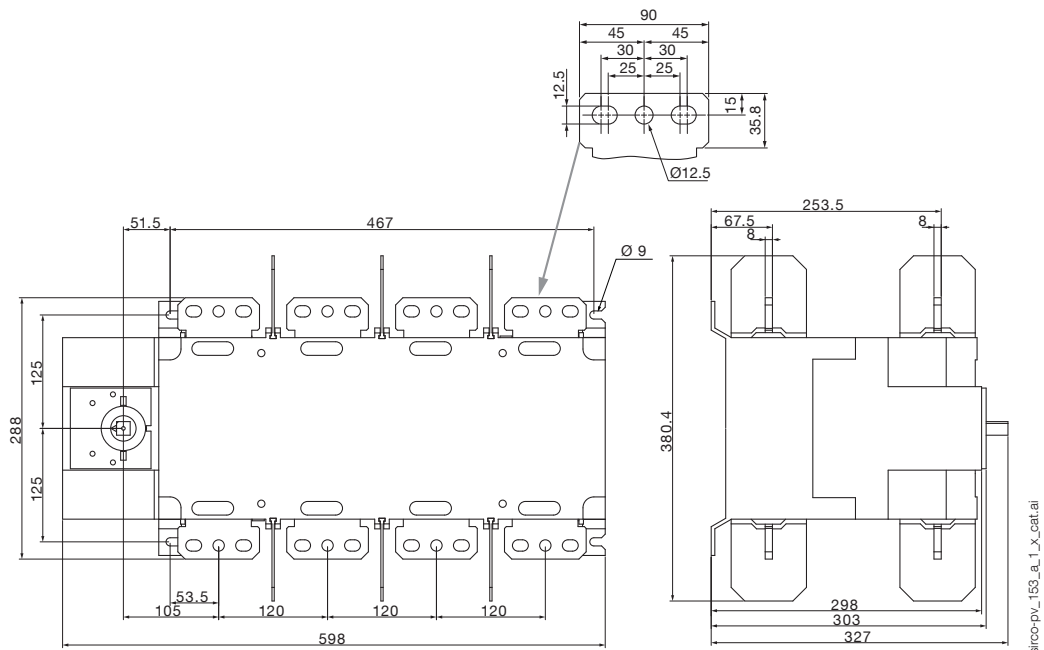
SIRCO PV IEC 60947-3

Load break switches for photovoltaic applications
from 100 to 3200 A, up to 1500 VDC

Dimensions (mm) (continued)

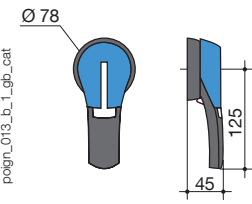
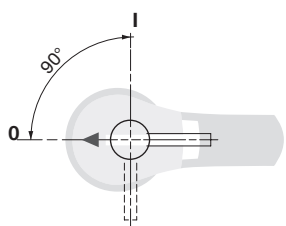
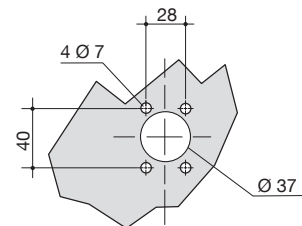
2000 A - B7_{DS} - 8P - 1500 VDC - 1 circuit

26PV 8200

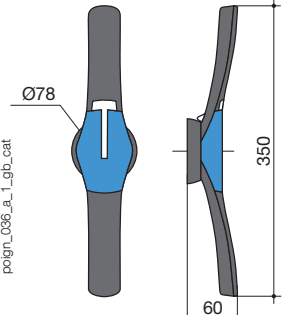
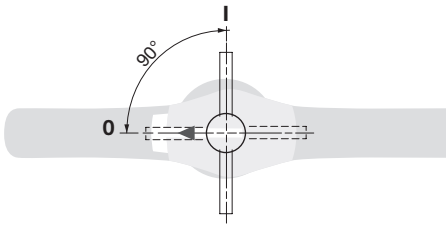
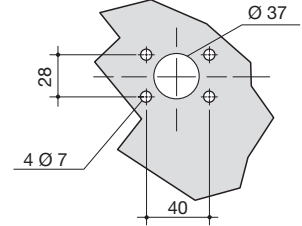


Dimensions for external handles (mm)

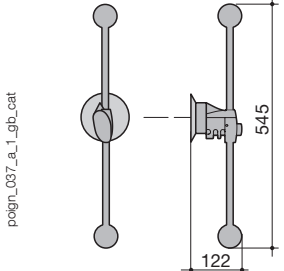
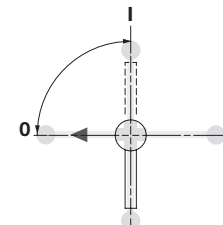
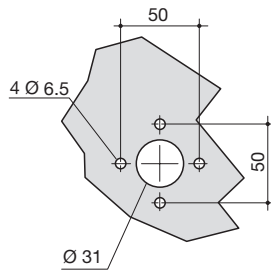
B4 - B4_{DS} - B5

| Handle type | Front operation Direction of operation | Door drilling |
|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <p>S2 type</p>  <p>poign_013_b_1_gpb_cat</p> |  |  |

B5_{DS} - B6 - B7

| Handle type | Front operation Direction of operation | Door drilling |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <p>S4 type</p>  <p>poign_036_a_1_gpb_cat</p> |  |  |

B8 - B6_{DS} - B7_{DS}

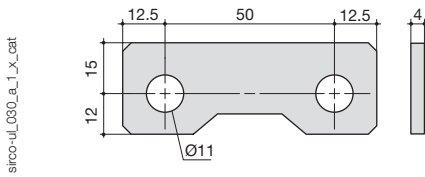
| Handle type | Front operation Direction of operation | Door drilling |
|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <p>V1 type</p>  <p>poign_037_a_1_gpb_cat</p> |  |  |

SIRCO PV IEC 60947-3

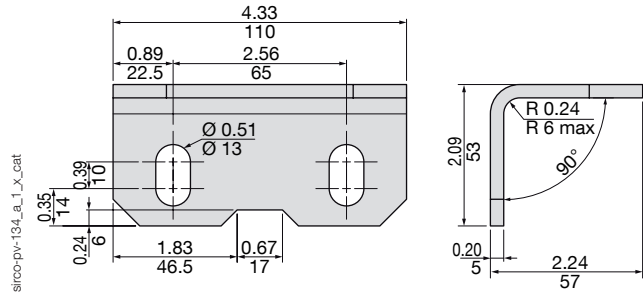
Load break switches for photovoltaic applications
from 100 to 3200 A, up to 1500 VDC

Bridging bars (mm)

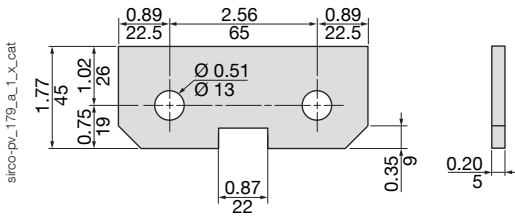
2609 0025



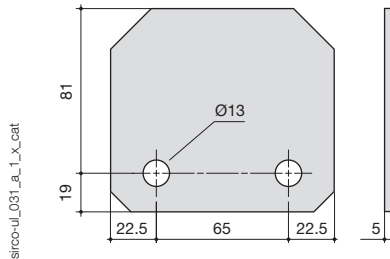
2709 0045



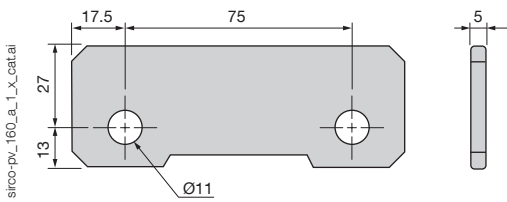
2709 0027



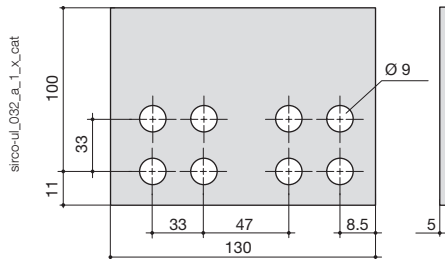
2609 0080



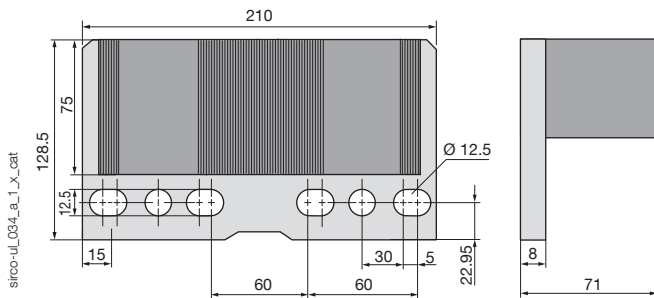
2609 0026



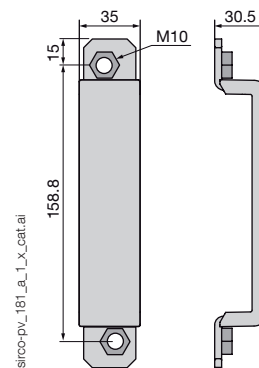
2609 1100



2609 1200

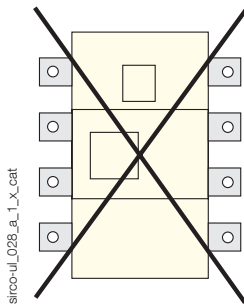
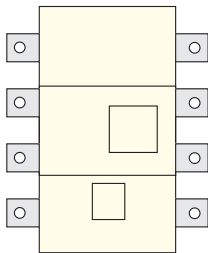
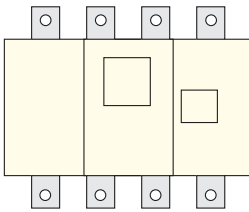
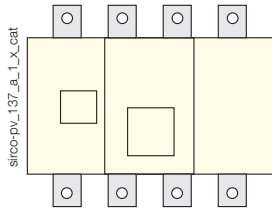


2609 0041

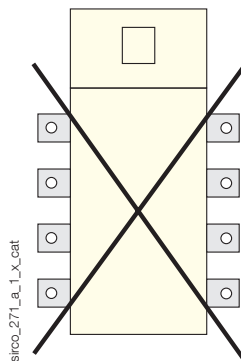
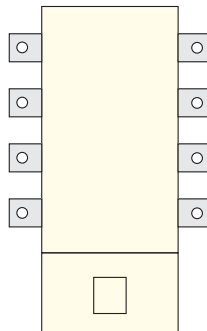
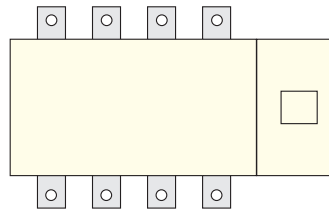
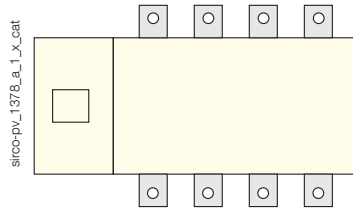


Mounting orientation

B4 to B8



B4_{DS} - B5_{DS}



B6_{DS} - B7_{DS}

