



Servo-assisted 2/2 way diaphragm valve

- Servo-assisted diaphragm with diameter of up to DN40
- Spring coupled diaphragm opens without differential pressure
- Damped design for quiet closing
- Compact construction with high flow rate
- Energy-saving double coil technology with kick and drop design



Product variants described in the data sheet may differ from the product presentation and description.

Can be combined with

| | | |
|---|---|---|
|  | Type 2518 Cable Plug DIN EN 175301 - 803 - Form A | ▶ |
|  | Type 2513 Cable plug according to DIN EN 175301-803 connector shape A | ▶ |
|  | Type 1087 Timer | ▶ |

Type description

The 6213 EV valve is a servo-assisted solenoid valve of the S.EV series. The spring coupling of the diaphragm supports the opening process of the valve. In its standard version, the valve is suitable for use in liquids. A minimum differential pressure is required for complete opening. A special version (HP00) which opens the valve without differential pressure is available for gas and vacuum applications. Various diaphragm material combinations are available depending on the application. The range of housing includes brass, stainless steel and gunmetal. Dezincification-resistant brass is available for other markets. To reduce power consumption in operation, coils with "Kick and Drop" (KD) electronics (double coil technology) are available. In combination with a plug in accordance with DIN EN 175301-803 Form A, the valves satisfy protection class IP65 – in combination with a stainless steel housing NEMA 4X.

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1. General technical data

| Product properties | |
|---|---|
| Dimensions | Detailed information can be found in chapter "4. Dimensions" on page 5. |
| Materials | |
| Body | Brass acc. to DIN EN 50930-6 Stainless steel 1.4408 Gunmetal (external thread) DN10...DN20 |
| Coil | Polyamide, epoxy (insulation class H) |
| Seal | NBR, FKM, EPDM |
| Inner part of valve | Brass body: Brass, stainless steel and PPS Stainless steel body: Stainless steel and PPS Gunmetal body: Stainless steel and PPS (external thread) DN10...DN20 |
| Orifice | Standard: DN10...DN40 HP00: DN13...DN20 |
| Switching function | Detailed information can be found in chapter "2. Circuit functions" on page 4. |
| Performance data | |
| Response times ¹⁾ AC / DC | |
| DN10...DN13 | Opening: 10...100 ms Closing: 100...200 ms |
| DN20 | Opening: 200...300 ms Closing: 400...700 ms |
| DN25...DN40 | Opening: 300...400 ms Closing: 800...1400 ms |
| Electrical data | |
| Operating voltage | Standard: 024/DC, 024/50, 230/50, 110/50, 120/60 HP00: 24 V (50...60 Hz), 230 V (50...60 Hz) |
| Power consumption | Depending on orifice and coil size For detailed information, see "5. Performance specifications" on page 9 |
| Voltage tolerance | ± 10 % |
| Duty cycle | 100 % continuous rating; KD coil; max. rating 6 circuit switches/minute |
| Medium data | |
| Medium temperature | |
| NBR | - 10 °C... + 80 °C |
| FKM | 0 °C... + 90 °C with polyamide coil 0 °C... + 120 °C with epoxy coil |
| EPDM | - 30 °C... + 90 °C with polyamide coil - 30 °C... + 100 °C with epoxy coil |
| Operating medium | |
| NBR | Neutral fluids, water, hydraulic oil, oil without additives |
| FKM | Per-solutions, hot oils with additives |
| EPDM | Oil and fat-free fluids and gases |
| Viscosity | Max. 21 mm ² /s |
| Process/Port connection & communication | |
| Electrical connection | Tag connector acc. to DIN EN 175 301 - 803 Form A (see "6.4. Ordering chart accessories" on page 14) |
| Approvals and certificates | |
| Protection class | IP65 with cable plug and cable connection IP65 with terminal box (further versions on request) |
| Environment and installation | |
| Installation | As required, preferably with actuator upright |
| Ambient temperature | Max. + 55 °C |

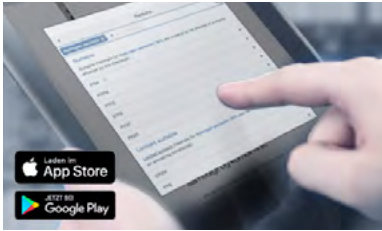
1.) Measurement with water at valve outlet 6 bar and + 20 °C. Opening: Pressure build-up 0 to 90 %, Closing: Pressure drop 100 to 10

2. Circuit functions

| Circuit functions | Description |
|-------------------|--|
| | Type: A, solenoid valve 2/2 way Servo-controlled Normally closed |

3. Materials

3.1. Chemical Resistance Chart – Bürkert resistApp



Bürkert resistApp – Chemical Resistance Chart

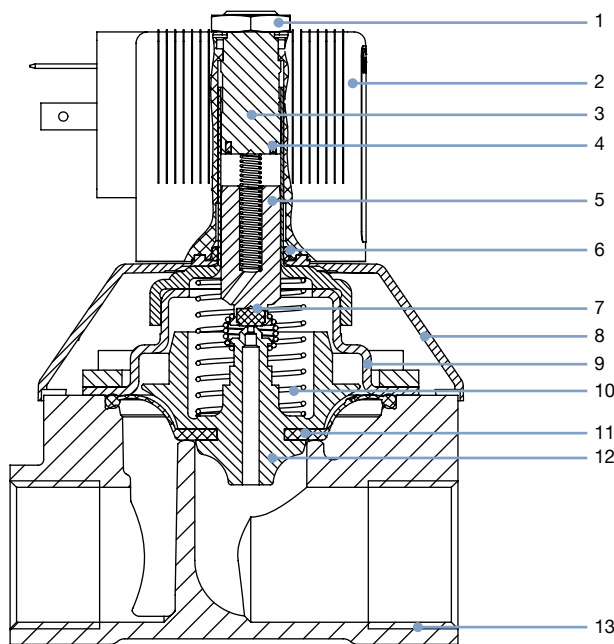
You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

[Start Chemical Resistance Check](#)

3.2. Material specifications

Note:

The sectional view shown corresponds to the standard version. For other versions and nominal diameters, the sectional view varies.



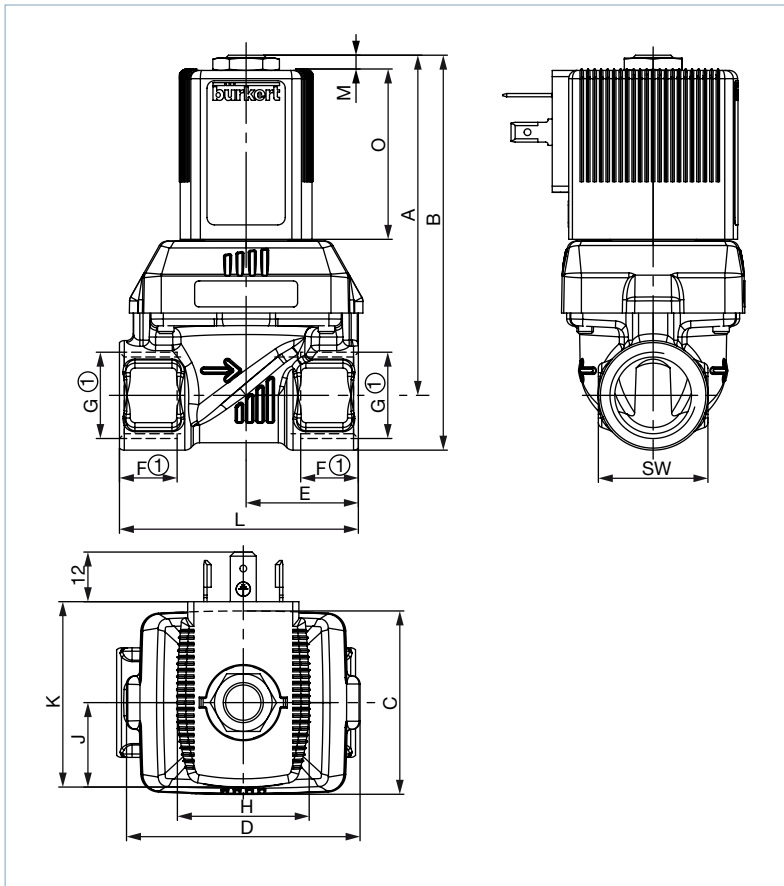
| No. | Element | Material |
|-----|--------------------------------|---|
| 1 | Locknut | Steel (surface thick-film passivated acc. to RoHS) Stainless steel 1.4305, PTFE coated |
| 2 | Coil | Polyamide or Epoxy |
| 3 | Stopper | Stainless steel 1.4113 |
| 4 | Shading ring (only AC version) | with Brass body: Copper (Cu) with Stainless steel body: Silver (Ag) |
| 5 | Magnetic core | Stainless steel 1.4113 |
| 6 | O-Ring | FKM |
| 7 | Plunger seal | NBR, FKM, EPDM |
| 8 | Bonnet | PA6 |
| 9 | Cover | DN10...DN25: Stainless steel 1.4301 DN40: Brass, stainless steel 1.4408 |
| 10 | Spring | Stainless steel 1.4310 |
| 11 | Diaphragm | NBR, FKM, EPDM |
| 12 | Diaphragm support | PPSGF40 in combination with brass and accordingly stainless steel parts |
| 13 | Valve body | Brass, stainless steel 1.4408 Gunmetal with external thread |

4. Dimensions

4.1. Standard version in brass and stainless steel

Note:

- Dimensions in mm
- The dimensions F1 and G 1 apply to G-threads
- The dimensions F2 and G 2 apply to NPT-threads
- The dimensions F3 and G 3 apply to RC-threads



| DN | A | B | C | D | E (MS/VA) | G | | NPT | | Rc | | L (MS/VA) | SW | Coil size | | |
|--------------------------------------|-------|-------|------|------|---------------|------|------|------|-------|------|--------|--------------|-------|-----------|----------|----|
| | | | | | | F1 | G 1 | F2 | G 2 | F3 | G 3 | | | | | |
| 10 | 71.1 | 82.1 | 36 | 46 | 22 | 12 | G ¼ | 10.0 | NPT ¼ | - | - | 50 | 22 | 5 and 6 | | |
| | | | | | 24.5 | 14 | G ⅜ | 10.3 | NPT ⅜ | 10.1 | Rc ⅜ | | 27 | | | |
| 10 ¹⁾ 10 ²⁾ | 73.1 | 86.6 | | | | | | | G ½ | 13.7 | NPT ½ | 13.2 | Rc ½ | | 50 55 | |
| 13 ¹⁾ 13 ²⁾ | 82.6 | 95.9 | 44.5 | 56.7 | 27.25 32.5 | 14 | G ½ | 13.7 | NPT ½ | 13.2 | Rc ½ | 58 65 | 27 | 5 and 6 | | |
| 13 | 84.6 | 100.6 | | | | | 32.5 | 16 | G ¾ | 14 | NPT ¾ | 14.5 | Rc ¾ | | 65 | 32 |
| 20 | 97.1 | 113.1 | | | 65 | 76.6 | 37 | 16 | G ¾ | 14 | NPT ¾ | 14.5 | Rc ¾ | | 80 | 32 |
| 20 | 99.6 | 120.1 | | | 37.5 | 18 | G 1 | 16.8 | NPT 1 | 16.8 | Rc 1 | 80 | 41 | | | |
| 13 ¹⁾ 13 ²⁾ | 109.3 | 122.8 | 44.5 | 56 | 27.25 32.5 | 14 | G ½ | 13.7 | NPT ½ | 13.2 | Rc ½ | 58 65 | 27 | K and L | | |
| 13 | 111.3 | 127.3 | | | | | 32.5 | 16 | G ¾ | 14 | NPT ¾ | 14.5 | Rc ¾ | | 65 | 32 |
| 20 | 123.9 | 139.9 | | | 65 | 76.6 | 37 | 16 | G ¾ | 14 | NPT ¾ | 14.5 | Rc ¾ | | 80 | 32 |
| 20 | 126.4 | 146.9 | | | 37.5 | 18 | G 1 | 16.8 | NPT 1 | 16.8 | Rc 1 | 80 | 41 | | | |
| 25 | 143.4 | 163.4 | 77 | 88 | 46 | 18 | G 1 | 16.8 | NPT 1 | 16.8 | Rc 1 | 95 | 41 | K and L | | |
| 25 | 148.3 | 173.3 | | | | | 46 | 20 | G 1¼ | 17.3 | NPT 1¼ | 19.1 | Rc 1¼ | | 95 | 50 |

| DN | A | B | C | D | E (MS/VA) | G | | NPT | | Rc | | L (MS/VA) | SW | Coil size |
|-------------------|-------|-------|-------|-----|--------------|----|------|------|--------|------|-------|--------------|----|-----------|
| | | | | | | F1 | G 1 | F2 | G 2 | F3 | G 3 | | | |
| 40 ^{1.)} | 153.9 | 178.9 | 104.5 | 117 | 61 | 20 | G 1¼ | 17.3 | NPT 1¼ | 19.1 | Rc 1¼ | 126 | 50 | K and L |
| 40 | 159.4 | 189.4 | | | 61 | 22 | G 1½ | 17.3 | NPT 1½ | 19.1 | Rc 1½ | 126 | 60 | |
| 40 | 165.4 | 200.4 | | | 64 | 24 | G 2 | 17.6 | NPT 2 | 23.4 | Rc 2 | 132 | 70 | |

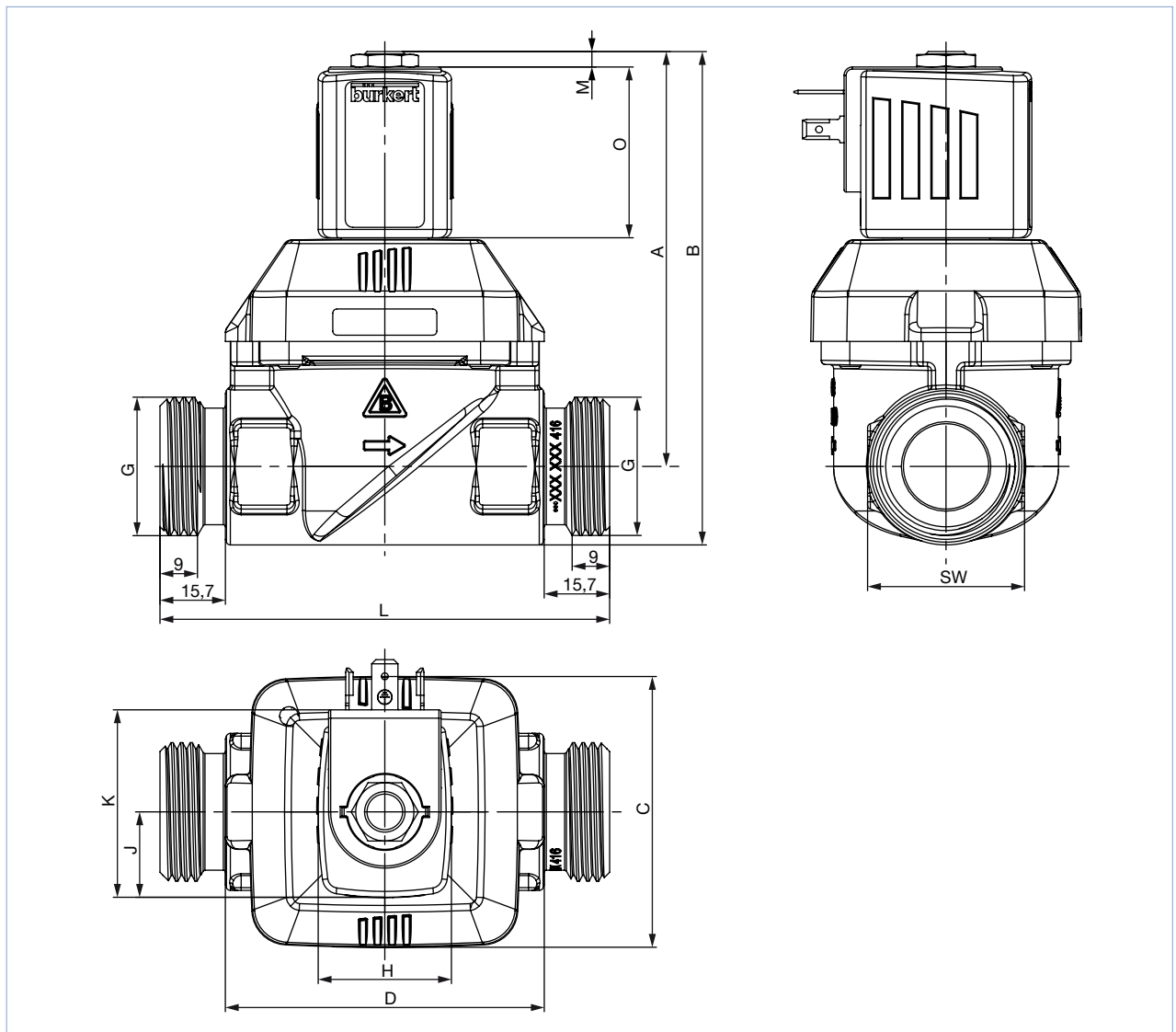
1.) only as brass thread port version

2.) only as stainless steel thread port version

4.2. Gunmetal version with external thread

Note:

Dimensions in mm



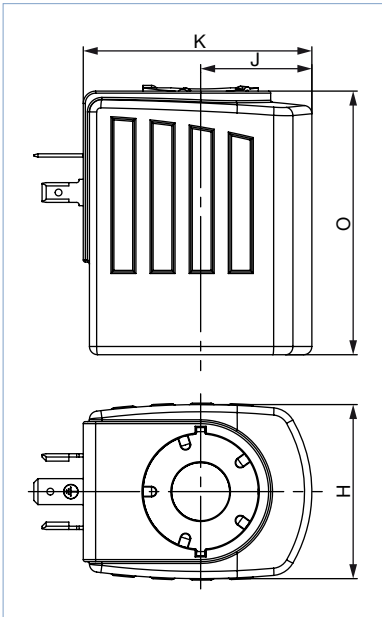
| DN | A | B | C | D | G | L | SW | Coil size |
|----|-------|-------|------|------|-----|-----|------|-----------|
| 10 | 73.1 | 86.1 | 36 | 46 | G ½ | 80 | 26 | 5 and 6 |
| 13 | 84.6 | 100.6 | 44.5 | 56.7 | G ¾ | 89 | 32 | 5 and 6 |
| 20 | 99.6 | 118.5 | 65 | 76.6 | G 1 | 108 | 37.7 | 5 and 6 |
| 13 | 104.3 | 120.3 | 44.5 | 56.7 | G ¾ | 89 | 32 | K and L |
| 20 | 119.3 | 139.8 | 36 | 76.6 | G 1 | 108 | 37.7 | K and L |

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4.3. Coil dimension

Note:

Dimensions in mm

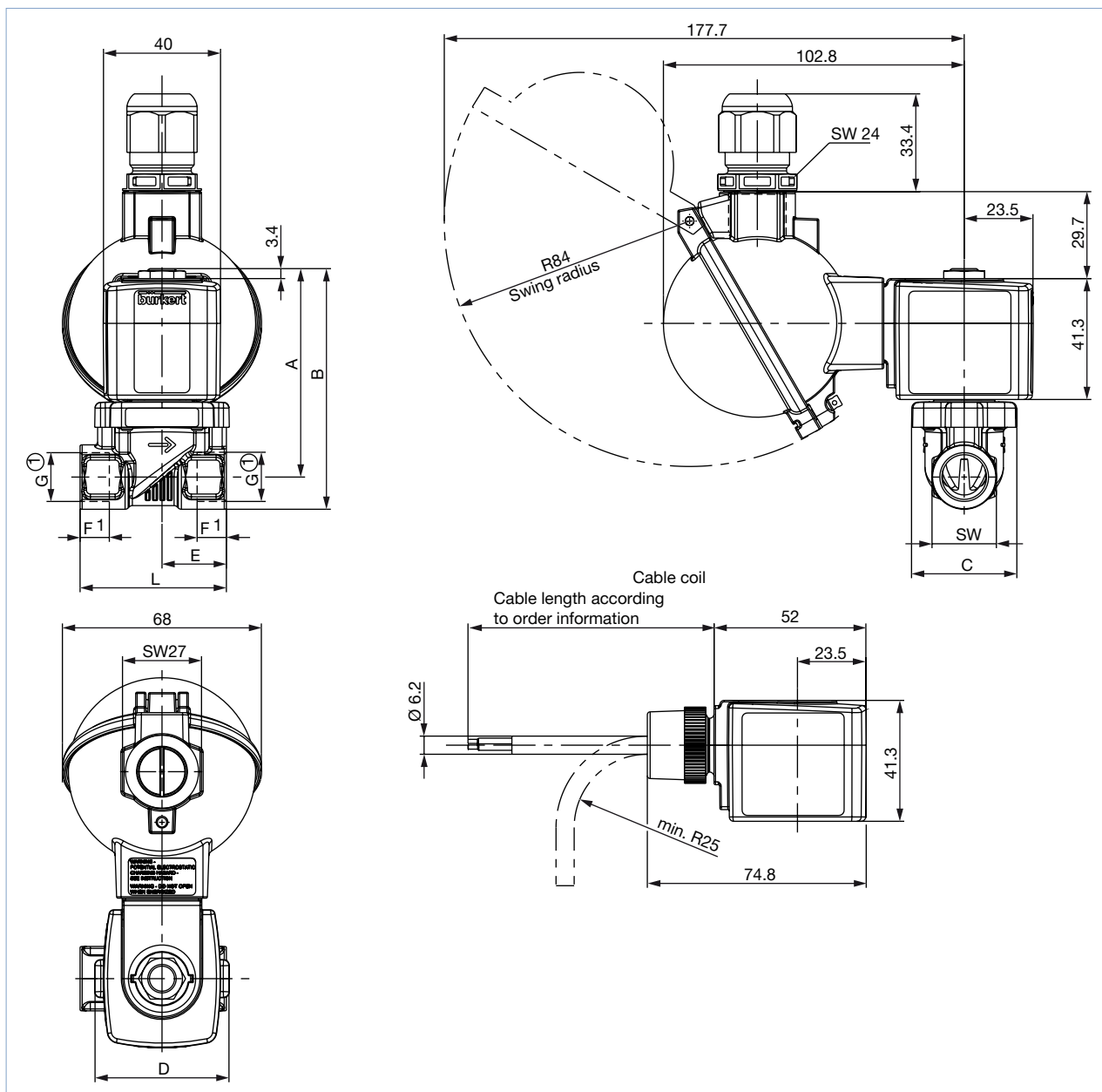


| Coil size | H | J | K | O | M |
|-----------|----|------|------|----|-----|
| 5 | 32 | 20.5 | 45 | 41 | 3.4 |
| 6 | 40 | 23.5 | 51 | 41 | 3.4 |
| K | 42 | 27 | 55.5 | 64 | 7 |
| L | 65 | 37.5 | 72 | 64 | 7 |

4.4. Explosion-proof version ATEX + IECEx

Note:

Coil with terminal box and cable gland or coil with cable connection on request.



| DN | A | B | C | D | E | G | | NPT | | Rc | | L | SW |
|----|------|-------|------|------|-------|----|------|------|-------|------|------|-------|------|
| | | | | | | F1 | G 1 | F2 | G 2 | F3 | G 3 | | |
| 10 | 71.2 | 82.2 | 36 | 45.6 | 22 | 12 | G ¼ | 10 | NPT ¼ | - | - | 50 | 22 |
| | 73.2 | 86.7 | | | 24.5 | 14 | G ½ | 13.7 | NPT ½ | 13.2 | Rc ½ | | 27 |
| 13 | 82.7 | 96 | 44.5 | 56.7 | 27.25 | 14 | G ½ | 13.7 | NPT ½ | 13.2 | Rc ½ | 58 | 27 |
| | 84.7 | 100.7 | | | 32.5 | | | | | | | 65 | |
| | 20 | 97.2 | | | 113.2 | 65 | 76.6 | 37 | 16 | G ¾ | 14 | NPT ¾ | 14.5 |
| | 99.7 | 120.2 | | | 37.5 | 18 | G 1 | 16.8 | NPT 1 | 16.8 | Rc 1 | | 41 |

DTS 1000115690 EN Version: Z Status: RL (released | freigegeben | valide) printed: 13.12.2021

5. Performance specifications

5.1. Power consumption

| Nominal size | Coil size | | AC | | | DC | | KD coil AC/DC ²⁾ | | |
|--------------|-----------|----|--------|------|-----|------------------|------------------|---|--|--------------------------|
| | | | Inrush | Hold | | Cooling capacity | Heat performance | AC | DC | AC/DC |
| [mm] | [mm] | SG | [VA] | [VA] | [W] | [W] | [W] | Cooling capacity ¹⁾ Inrush (500 ms) | Cooling capacity ¹⁾ Hold | Heat performance Hold |
| 10 | 32 | 5 | 34 | 14 | 8 | – | – | – | – | – |
| 10 | 40 | 6 | – | – | 10 | 11 | 10 | – | – | – |
| 13 | 32 | 5 | 36 | 14 | 8 | – | – | – | – | – |
| 13 | 40 | 6 | – | – | 10 | 11 | 10 | – | – | – |
| 13 | 42 | K | 125 | 37 | 16 | 21 | 16 | 44 | 6.5 | 5.5 |
| 20 | 32 | 5 | 38 | 14 | 8 | – | – | – | – | – |
| 20 | 40 | 6 | – | – | 10 | 11 | 10 | – | – | – |
| 20 | 42 | K | 140 | 37 | 16 | 21 | 16 | 44 | 6.5 | 5.5 |
| 25 | 42 | K | 150 | 37 | 16 | – | – | 85 | 8.5 | 7 |
| 25 | 65 | L | – | – | – | 28 | 21 | – | – | – |
| 40 | 42 | K | 190 | 37 | 16 | – | – | 85 | 8.5 | 7 |
| 40 | 65 | L | – | – | – | 28 | 21 | – | – | – |

1.) Cooling capacity at coil temperature 20 °C

2.) "Kick and Drop" coil (KD coil): Coil with energy-saving "Kick and Drop" electronics in double coil technology

6. Ordering information

6.1. Bürkert eShop – Easy ordering and quick delivery



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6.2. Bürkert product filter



Bürkert product filter – Get quickly to the right product

You want to select products comfortably based on your technical requirements? Use the Bürkert product filter and find suitable articles for your application quickly and easily.

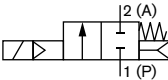
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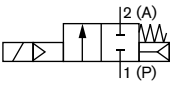
6.3. Ordering chart

Brass body

Note:

- Please note that the cable plug has to be ordered separately, see “6.4. Ordering chart accessories” on page 14 or separate datasheet **Type 2518** ▶.
- Further versions on request

| Circuit function | Port connection | Orifice | K _v value | Pressure | Weight | Article no. per voltage/frequency [V/Hz] | | |
|---|--|---------|---|-------------------------------|-----------------------------|--|--------|--------|
| | | [mm] | Water ^{1.) 2.)} [m ³ /h] | range ^{3.)} [bar] | (DC) ^{4.)} [kg] | 024/DC | 024/50 | 230/50 |
| DN10...DN40 | | | | | | | | |
| A, solenoid valve 2/2 way Servo-controlled Normally closed  | NBR Diaphragm, polyamide coil, medium temperature - 10... + 80 °C | | | | | | | |
| | G ¼ | 10 | 1.3 | 0...10 | 0.3 (0.5) | 221674 | 221675 | 221677 |
| | G ⅜ | 10 | 1.9 | 0...10 | 0.3 (0.5) | 221598 | 221599 | 221601 |
| | G ½ | 10 | 1.9 | 0...10 | 0.4 (0.5) | 221606 | 221607 | 221609 |
| | G ½ | 13 | 3.6 | 0...10 | 0.4 (0.5) | 221602 | 221603 | 221605 |
| | G ¾ | 13 | 3.6 | 0...10 | 0.5 (0.6) | 221618 | 221619 | 221621 |
| | G ¾ | 20 | 8.3 | 0...10 | 0.7 (0.8) | 221630 | 221631 | 221633 |
| | G 1 | 20 | 8.3 | 0...10 | 0.9 (1.0) | 221634 | 221635 | 221637 |
| | NBR Diaphragm, epoxy coil, medium temperature - 10... + 80 °C | | | | | | | |
| | G 1 | 25 | 11 | 0...10 | 1.6 (2.2) | 227533 | 221725 | 221728 |
| | G 1¼ | 25 | 11 | 0...10 | 1.7 (2.3) | 227534 | 221729 | 221732 |
| | G 1¼ | 40 | 23 | 0...10 | 2.9 (3.4) | 270903 | 270895 | 270899 |
| | G 1½ | 40 | 30 | 0...10 | 3.2 (3.7) | 227539 | 221750 | 221753 |
| | G 2 | 40 | 30 | 0...10 | 3.4 (3.9) | 227541 | 221754 | 221757 |
| | FKM Diaphragm, epoxy coil, medium temperature 0... + 120 °C | | | | | | | |
| | G ¼ | 10 | 1.3 | 0...10 | 0.3 (0.5) | 221678 | 221679 | 221681 |
| | G ⅜ | 10 | 1.9 | 0...10 | 0.3 (0.5) | 221610 | 221611 | 221613 |
| | G ½ | 10 | 1.9 | 0...10 | 0.4 (0.5) | 221614 | 221615 | 221617 |
| | G ½ | 13 | 3.6 | 0...10 | 0.4 (0.5) | 221622 | 221623 | 221625 |
| | G ¾ | 13 | 3.6 | 0...10 | 0.5 (0.6) | 221626 | 221627 | 221629 |
| | G ¾ | 20 | 8.3 | 0...10 | 0.7 (0.8) | 221638 | 221639 | 221641 |
| | G 1 | 20 | 8.3 | 0...10 | 0.9 (1.0) | 221642 | 221643 | 221645 |
| | G 1 | 25 | 11 | 0...10 | 1.6 (2.2) | 227537 | 221733 | 221736 |
| | G 1¼ | 25 | 11 | 0...10 | 1.7 (2.3) | 227538 | 221737 | 221740 |
| | G 1¼ | 40 | 23 | 0...10 | 2.9 (3.4) | 270905 | 270906 | 270908 |
| | G 1½ | 40 | 30 | 0...10 | 3.2 (3.7) | 227544 | 227724 | 227726 |
| | G 2 | 40 | 30 | 0...10 | 3.4 (3.9) | 227545 | 227728 | 227730 |
| EPDM Diaphragm, polyamide coil, medium temperature - 30... + 90 °C | | | | | | | | |
| G ¼ | 10 | 1.3 | 0...10 | 0.3 (0.4) | 221670 | 221671 | 221673 | |
| G ⅜ | 10 | 1.9 | 0...10 | 0.3 (0.4) | 221646 | 221647 | 221649 | |
| G ½ | 10 | 1.9 | 0...10 | 0.4 (0.5) | 221650 | 221651 | 221653 | |
| G ½ | 13 | 3.6 | 0...10 | 0.4 (0.5) | 221654 | 221655 | 221657 | |
| G ¾ | 13 | 3.6 | 0...10 | 0.5 (0.6) | 221658 | 221659 | 221661 | |
| G ¾ | 20 | 8.3 | 0...10 | 0.7 (0.8) | 221662 | 221663 | 221665 | |
| G 1 | 20 | 8.3 | 0...10 | 0.9 (1.0) | 221666 | 221667 | 221669 | |

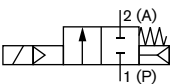
| Circuit function | Port connection | Orifice | K _v value Water ^{1.) 2.)} | Pressure range ^{3.)} | Weight (DC) ^{4.)} | Article no. per voltage/frequency [V/Hz] | | |
|---|--|---------|---|-------------------------------|----------------------------|--|----------|----------|
| | | [mm] | [m ³ /h] | [bar] | [kg] | 024/DC | 024/50 | 230/50 |
| A, solenoid valve 2/2 way Servo-controlled Normally closed  | EPDM Diaphragm, epoxy coil, medium temperature - 30... + 100 °C | | | | | | | |
| | G 1 | 25 | 11 | 0...10 | 1.6 (2.2) | 227535 ☒ | 221717 ☒ | 221720 ☒ |
| | G 1¼ | 25 | 11 | 0...10 | 1.7 (2.3) | 227536 ☒ | 221721 ☒ | 221724 ☒ |
| | G 1¼ | 40 | 23 | 0...10 | 2.9 (3.4) | 270904 ☒ | 270890 ☒ | 270894 ☒ |
| | G 1½ | 40 | 30 | 0...10 | 3.2 (3.7) | 227542 ☒ | 221741 ☒ | 221745 ☒ |
| | G 2 | 40 | 30 | 0...10 | 3.4 (3.9) | 227543 ☒ | 221746 ☒ | 221749 ☒ |

- 1.) Measured at +20 °C, 1 bar^{2.)} pressure at valve inlet and free outlet
- 2.) A minimum differential pressure of 0.5 bar is required for full (100 %) opening
- 3.) Pressure data [bar]: Overpressure with respect to atmospheric pressure
- 4.) The values in brackets regarding the weight apply to the DC version
- 5.) Approved for drinking water according to KTW and W270

HP00 version with brass body

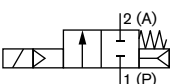
Note:

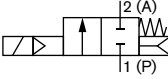
Preferably used for gas and vacuum applications as well as for liquids with increased flow and tightness requirements at low differential pressure.

| Circuit function | Port connection | Orifice | K _v value Water ^{1.)} | Pressure range ^{3.)} | Weight (DC) | Article no. per voltage/frequency [V/Hz] | | |
|---|--|---------|---|-------------------------------|-------------|--|-----------|-----------|
| | | [mm] | [m ³ /h] | [bar] | [kg] | 024/DC | 024/50-60 | 230/50-60 |
| DN13...DN20 | | | | | | | | |
| A, solenoid valve 2/2 way Servo-controlled Normally closed  | Brass body, FKM Diaphragm, epoxy coil, medium temperature 0... + 120 °C | | | | | | | |
| | G ½ | 13 | 3.6 | 0...10 | 0.8 | 221706 ☒ | 221705 ☒ | 231574 ☒ |
| | G ¾ | 20 | 8.3 | 0...10 | 1.3 | 221712 ☒ | 221711 ☒ | 221713 ☒ |
| | G 1 | 20 | 8.3 | 0...10 | 1.4 | 221715 ☒ | 221714 ☒ | 221716 ☒ |
| | Brass body, EPDM Diaphragm, epoxy coil, medium temperature - 30... + 100 °C | | | | | | | |
| | G ½ | 13 | 3.6 | 0...10 | 0.8 | 221694 ☒ | 221693 ☒ | 221695 ☒ |
| G ¾ | 20 | 8.3 | 0...10 | 1.3 | 208422 ☒ | 221699 ☒ | 189592 ☒ | |
| G 1 | 20 | 8.3 | 0...10 | 1.4 | 221703 ☒ | 221702 ☒ | 221704 ☒ | |

- 1.) Measured at +20 °C, 1 bar^{2.)} pressure at valve inlet and free outlet
- 3.) Pressure data [bar]: Overpressure with respect to atmospheric pressure

Stainless steel body

| Circuit function | Port connection | Orifice | K _v value Water ^{1.) 2.)} | Pressure range ^{3.)} | Weight (DC) ^{4.)} | Article no. per voltage/frequency [V/Hz] | | |
|---|--|---------|---|-------------------------------|----------------------------|--|----------|----------|
| | | [mm] | [m ³ /h] | [bar] | [kg] | 024/DC | 024/50 | 230/50 |
| DN10...DN40 | | | | | | | | |
| A, solenoid valve 2/2 way Servo-controlled Normally closed  | NBR Diaphragm, polyamide coil, medium temperature - 10... + 80 °C | | | | | | | |
| | G ¾ | 10 | 1.9 | 0...10 | 0.3 (0.4) | 222150 ☒ | 222151 ☒ | 222152 ☒ |
| | G ½ | 13 | 3.6 | 0...10 | 0.4 (0.5) | 222156 ☒ | 222157 ☒ | 222158 ☒ |
| | G ¾ | 20 | 8.3 | 0...10 | 0.7 (0.8) | 222168 ☒ | 222169 ☒ | 222170 ☒ |
| | G 1 | 20 | 8.3 | 0...10 | 0.9 (1.0) | 222171 ☒ | 222172 ☒ | 222173 ☒ |
| | NBR Diaphragm, epoxy coil, medium temperature - 10... + 80 °C | | | | | | | |
| | G 1 | 25 | 11 | 0...10 | 1.6 (2.2) | 227546 ☒ | 228429 ☒ | 222193 ☒ |
| | G 1¼ | 25 | 11 | 0...10 | 1.7 (2.3) | 227547 ☒ | 228432 ☒ | 222197 ☒ |
| | G 1½ | 40 | 30 | 0...10 | 3.2 (3.7) | 227552 ☒ | 228435 ☒ | 222201 ☒ |
| | G 2 | 40 | 30 | 0...10 | 3.4 (3.9) | 227554 ☒ | 228438 ☒ | 222205 ☒ |

| Circuit function | Port connection | Orifice | K _v value | Pressure | Weight | Article no. per voltage/frequency [V/Hz] | | |
|---|--|---------|---|-------------------------------|-----------------------------|--|--------|--------|
| | | [mm] | Water ^{1.) 2.)} [m ³ /h] | range ^{3.)} [bar] | (DC) ^{4.)} [kg] | 024/DC | 024/50 | 230/50 |
| A, solenoid valve 2/2 way Servo-controlled Normally closed  | FKM Diaphragm, epoxy coil, medium temperature 0... + 120 °C | | | | | | | |
| | G 3/8 | 10 | 1.9 | 0...10 | 0.3 (0.4) | 221758 | 221759 | 221761 |
| | G 1/2 | 13 | 3.6 | 0...10 | 0.4 (0.5) | 221762 | 221763 | 221765 |
| | G 3/4 | 20 | 8.3 | 0...10 | 0.7 (0.8) | 222122 | 222123 | 222125 |
| | G 1 | 20 | 8.3 | 0...10 | 0.9 (1.0) | 222126 | 222127 | 222129 |
| | G 1 | 25 | 11 | 0...10 | 1.6 (2.2) | 227550 | 228430 | 222143 |
| | G 1 1/4 | 25 | 11 | 0...10 | 1.7 (2.3) | 227551 | 228433 | 222145 |
| | G 1 1/2 | 40 | 30 | 0...10 | 3.2 (3.7) | 227557 | 228436 | 222147 |
| | G 2 | 40 | 30 | 0...10 | 3.4 (3.9) | 227558 | 228439 | 222149 |
| | EPDM Diaphragm, polyamide coil, medium temperature -30... + 90 °C | | | | | | | |
| | G 3/8 | 10 | 1.9 | 0...10 | 0.3 (0.4) | 222153 | 222154 | 222155 |
| | G 1/2 | 13 | 3.6 | 0...10 | 0.4 (0.5) | 222159 | 222160 | 222161 |
| | G 3/4 | 20 | 8.3 | 0...10 | 0.7 (0.8) | 222174 | 222175 | 222176 |
| | G 1 | 20 | 8.3 | 0...10 | 0.9 (1.0) | 222177 | 222178 | 222179 |
| | EPDM Diaphragm, epoxy coil, medium temperature -30... + 100 °C | | | | | | | |
| | G 1 | 25 | 11 | 0...10 | 1.6 (2.2) | 227548 | 228431 | 222195 |
| | G 1 1/4 | 25 | 11 | 0...10 | 1.7 (2.3) | 227549 | 228434 | 222199 |
| | G 1 1/2 | 40 | 30 | 0...10 | 3.2 (3.7) | 227555 | 228437 | 222203 |
| | G 2 | 40 | 30 | 0...10 | 3.4 (3.9) | 227556 | 228440 | 222207 |

1.) Measured at +20 °C, 1 bar^{2.)} pressure at valve inlet and free outlet.

2.) A minimum differential pressure of 0.5 bar is required for full (100 %) opening.

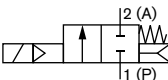
3.) Pressure data [bar]: Overpressure with respect to atmospheric pressure.

4.) The values in brackets regarding the weight apply to the DC version.

HP00 version with stainless steel body

Note:

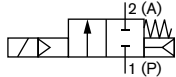
Preferably used for gas and vacuum applications as well as for liquids with increased flow and tightness requirements at low differential pressure.

| Circuit function | Port connection | Orifice [mm] | K _v value Water [m ³ /h] ^{1.)} | Pressure range [bar] ^{3.)} | Weight [kg] (DC) | Article no. per voltage/frequency [V/Hz] | | |
|---|---|--------------|---|-------------------------------------|------------------|--|-----------|-----------|
| | | | | | | 024/DC | 024/50-60 | 230/50-60 |
| DN10...DN40 | | | | | | | | |
| A, solenoid valve 2/2 way Servo-controlled Normally closed  | FKM Diaphragm, epoxy coil, medium temperature 0... + 120 °C | | | | | | | |
| | G 1/2 | 13 | 3.6 | 0...10 | 0.8 | 208694 | 220585 | 205351 |
| | G 3/4 | 20 | 8.3 | 0...10 | 1.3 | 222137 | 222136 | 222138 |
| | G 1 | 20 | 8.3 | 0...10 | 1.4 | 222140 | 222139 | 222141 |
| | EPDM Diaphragm, epoxy coil, medium temperature -30... + 100 °C | | | | | | | |
| | G 1/2 | 13 | 3.6 | 0...10 | 0.8 | 213132 | 222166 | 220584 |
| | G 3/4 | 20 | 8.3 | 0...10 | 1.3 | 222186 | 222187 | 222188 |
| G 1 | 20 | 8.3 | 0...10 | 1.4 | 222189 | 222190 | 222191 | |







1.) Measured at +20 °C, 1 bar^{2.)} pressure at valve inlet and free outlet.

3.) Pressure data [bar]: Overpressure with respect to atmospheric pressure.

Gunmetal housing with external thread

| Circuit function | Port connection | Orifice [mm] | K _v value Water [m ³ /h] ^{1.) 2.)} | Pressure range [bar] ^{3.)} | Weight [kg] (DC) ^{4.)} | Article no. per voltage/frequency [V/Hz] | | |
|---|-----------------|--------------|---|-------------------------------------|---------------------------------|--|--------|--------|
| | | | | | | 024/DC | 024/50 | 230/50 |
| Standard version, EPDM Diaphragm, epoxy coil, medium temperature - 30... + 100°C^{5.)} | | | | | | | | |
| A, solenoid valve 2/2 way Servo-controlled Normally closed  | G ½ | 10 | 1.9 | 0...10 | 0.4 | 311670 | 311674 | 311679 |
| | G ¾ | 13 | 3.6 | 0...10 | 0.6 | 311681 | 311684 | 311688 |
| | G 1 | 20 | 8.3 | 0...10 | 1.1 | 311691 | 311693 | 311696 |
| HP00 version, EPDM Diaphragm, epoxy coil, medium temperature - 30... + 100°C^{5.)} | | | | | | | | |
| | G ¾ | 13 | 3.6 | 0...10 | 0.6 | 312248 | 312249 | 312250 |
| | G 1 | 20 | 8.3 | 0...10 | 1.3 | 312247 | 312244 | 312246 |

- 1.) Measured at +20 °C, 1 bar^{2.)} pressure at valve inlet and free outlet.
- 2.) A minimum differential pressure of 0.5 bar is required for full (100 %) opening.
- 3.) Pressure data [bar]: Overpressure with respect to atmospheric pressure.
- 4.) The values in brackets regarding the weight apply to the DC version.
- 5.) Approved for drinking water according to KTW and W270

| Further versions on request | |
|---|---|
|  Process connection NPT, Rc, welded connection |  Approval <ul style="list-style-type: none"> Drinking water approval acc. to UBA assessment principles (PF23) VDE Approval acc. to DIN EN 60730 (VDE0631) (PW01/PW02) Watermark Licence (PF20) UL(UL-listed) approval (MH10753) (PE95) UR(UL-recognized) approval (PE94) NEMA 250 Type 4X WRAS approval (PD23) (DN10, DN13, DN20) (PD23) Safety shut-off valve for combustion facilities according to DIN EN ISO 23553-1 (PD22) CSA Certification Orifice 10/13/20 in brass and stainless steel is also available in explosion proof version Explosion proof approvals (NA10+PX58): <ul style="list-style-type: none"> ATEX: <ul style="list-style-type: none"> – EPS 18 ATEX 1 232 X – II 2G Ex mb IIC T4 Gb – II 2D Ex mb IIIC T130°C Db IECEX: <ul style="list-style-type: none"> – IECEX EPS 18.0110X – Ex mb IIC T4 Gb – Ex mb IIIC T130°C Db |
|  Temperature Special temperature ranges | |
|  Voltage Further Voltages available | |
|  Material <ul style="list-style-type: none"> Brass dezincification resistant (MZ) Nickel-plated brass (5 µm) (AF43) Gunmetal with external thread (DN10, DN13, DN20) | |
|  Coil Kick and Drop version: Coil with energy-saving “Kick and Drop” (KD) electronics in double-coil technology (CZ05) | |


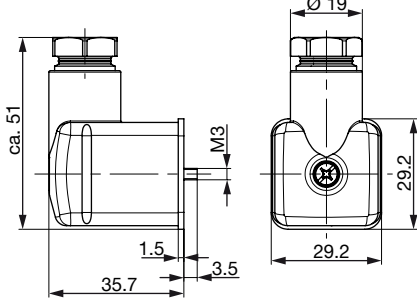
DTS 1000115690 EN Version: Z Status: RL (released | freigegeben | valide) printed: 13.12.2021

6.4. Ordering chart accessories

Cable plug Type 2518, form A acc. to DIN EN 175301 -803

Note:


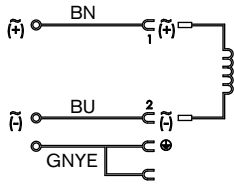
For other versions see data sheet **Type 2518** ▶

| Cable plug | Dimensions | Version | Voltage | Article no. |
|---|---|----------------------------------|-----------------|-------------|
|  |  | Without circuitry (AC/DC) | 0...250 V AC/DC | 314802 |
| | | With LED (AC/DC) | 12...24 V AC/DC | 314812 |
| | | With LED and varistor (AC/DC) | 12...24 V AC/DC | 314820 |
| | | With rectifier, LED and varistor | 12...24 V AC/DC | 314816 |

Cable plug Type 2513, form A acc. to DIN EN 175301 -803

Note:



- The Cable plug Type 2513 meets the requirements of ATEX category 3 GD.
- For more information on the cable plug, see data sheet **Type 2513** ▶

| Cable plug | circuit diagram | Cable length [mm] | Article no. |
|---|---|-------------------|-------------|
|  |  | 12000 | 260893 |
| | | 5000 | 260892 |
| | | 3000 | 260891 |
| | | 300 | 260890 |

Timer Type 1087, form A acc. to DIN EN 175301 -803

Note:

For more information on the timer, see data sheet **Type 1087** ▶

| Timer | Approval | Product code | Voltage range | Article no. |
|---|----------|-----------------------|-------------------|-------------|
|  | – | 1087-A-BCH-UC-28 | 10...30 V AC/DC | 348828 |
| | – | 1087-A-BDK-UC-28 | 24...240 V AC/DC | 348829 |
| | cURus | 1087-A-BCH-UC-28*PU01 | 10...30 V AC/DC | 348906 |
| | cURus | 1087-A-BDK-UC-28*PU01 | 24...240 V AC/DC | 348907 |
|  | – | 1087-A-BFW-UC-29 | 10...48 V AC/DC | 348830 |
| | – | 1087-A-BDX-UC-29 | 110...240 V AC/DC | 348831 |
| | cURus | 1087-A-BFW-UC-29*PU01 | 10...48 V AC/DC | 348908 |
| | cURus | 1087-A-BDX-UC-29*PU01 | 110...240 V AC/DC | 348909 |

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