

DRMKIT 220VDC 4CO LD/PB

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

Product image



Similar to illustration

- Mounted kit consisting relay, socket and retaining clip
- 100 % function tested
- 100 % check of the dielectric strenght between input - output
- 4 CO contacts
- With mechanical status indicator
- Optional Test button with coloured identification of coils (AC red / DC blue)
- Bright status LED (AC coil: red / DC coil: green)

General ordering data

| | |
|------------|--|
| Version | D-SERIES DRM, Relay module, Number of contacts: 4, CO contact AgNi flash gold-plated, Rated control voltage: 220 V DC, Continuous current: 5 A, Screw connection, Test button available: Yes |
| Order No. | 1542520000 |
| Type | DRMKIT 220VDC 4CO LD/PB |
| GTIN (EAN) | 4050118347319 |
| Qty. | 10 items |

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Technical data

Approvals

Approvals



ROHS Conform

Dimensions and weights

| | | | |
|------------|---------|-----------------|-------------|
| Depth | 66.8 mm | Depth (inches) | 2.6299 inch |
| Height | 79.9 mm | Height (inches) | 3.1457 inch |
| Width | 27.2 mm | Width (inches) | 1.0709 inch |
| Net weight | 93.35 g | | |

Temperatures

| | | | |
|-----------------------|----------------|---------------------|----------------|
| Storage temperature | -40 °C...70 °C | Ambient temperature | -40 °C...60 °C |
| Operating temperature | | | |

Environmental Product Compliance

| | |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status | Compliant with exemption |
| RoHS Exemption (if applicable/known) | 7a |
| REACH SVHC | Lead 7439-92-1 |
| SCIP | 611f3393-31e7-4ef5-8360-95619a629f27 |

Control side

| | | | |
|-----------------------|-----------|--------------------|---------------------|
| Rated control voltage | 220 V DC | Rated current DC | 5.2 mA |
| Power rating | 1.2 W | Coil resistance | 42000 Ω ± 10 % |
| Status indicator | Green LED | Protective circuit | Free-wheeling diode |

Load side

| | | | |
|---|---------------------------------------|---|---------------------------------------|
| Rated switching voltage | 250 V AC | Continuous current | 5 A |
| Max. switching frequency at rated load | 0.1 Hz | Max. switching voltage, AC | 250 V |
| Inrush current | 10 A / 50 ms | AC switching capacity (resistive), max. | 1250 VA |
| DC switching capacity (resistive), max. | 120 W @ 24 V | Switch-on delay | <20 ms |
| Switch-off delay | <20 ms | Contact type | 4 CO contact (AgNi flash gold-plated) |
| Mechanical service life | 20 x 10 ⁶ switching cycles | Min. switching power | 10 mA @ 12 V, 100 mA @ 5 V |

General data

| | | |
|--------------------------------------|---|----------------|
| Mounting rail | TS 35 | |
| Test button available | Yes | |
| Version of test button | Lockable test button, Momentary test button | |
| Mechanical switch position indicator | Yes | |
| Colour | black | |
| UL94 flammability rating component | Component | Housing |
| | UL94 flammability rating | V-2 |
| | Component | Mounting foot |
| | UL94 flammability rating | HB |
| | Component | Retaining clip |
| | UL94 flammability rating | HB |

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| | |
|--------------------------|------------------------|
| Component | Relay cover |
| UL94 flammability rating | V-2 |
| Component | Relay baseplate |
| UL94 flammability rating | V-0 |
| Component | Relay status indicator |
| UL94 flammability rating | HB |
| Component | Relay test button |
| UL94 flammability rating | HB |

Insulation coordination

| | | | |
|---|--------------------|--|--------------------|
| Rated voltage | 250 V | Pollution severity | 2 |
| Surge voltage category | III | Insulating material group | C |
| Clearance and creepage distances for control side - load side | ≥ 5.5 mm | Dielectric strength for control side - load side | 1.8 kVeff / 1 min. |
| Dielectric strength of neighbouring contacts | 1 kVeff / 1 min | Dielectric strength of open contact | 1 kVeff / 1 min |
| Impulse withstand voltage | 4.8 kV (1.2/50 µs) | Protection degree | IP20 |

Further details of approvals / standards

| | | | |
|-------------------------------|-----------------------------|------------------------------|-----------------------------|
| Relevant relay | DRM570220LT | Relevant base | SCM 4CO ECO |
| Certificate no. (cURus) relay | E312083 | Certificate no. (cURus) base | E312083 |

Connection data

| | | | |
|---|---------------------|---|---------------------|
| Wire connection method | Screw connection | Stripping length, rated connection | 7 mm |
| Tightening torque, min. | 0.5 Nm | Tightening torque, max. | 0.7 Nm |
| Clamping range, min. | 0.5 mm ² | Clamping range, max. | 2.5 mm ² |
| Wire cross-section, solid, min. | 0.5 mm ² | Wire cross-section, solid, max. | 2.5 mm ² |
| Wire connection cross section, finely stranded, min. | 0.5 mm ² | Wire connection cross section, finely stranded, max. | 2.5 mm ² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 0.5 mm ² | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 2.5 mm ² |
| Conductor cross-section, flexible, AEH (DIN 46228-1), min. | 0.5 mm ² | Conductor cross-section, flexible, AEH (DIN 46228-1), max. | 2.5 mm ² |
| Wire connection cross section, finely stranded, two clampable wires, min. | 0.5 mm ² | Wire cross-section, finely stranded, two clampable wires, max. | 1 mm ² |
| Blade size | size PH1 | | |

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 8.0 | EC001437 | ETIM 9.0 | EC001437 |
| ETIM 10.0 | EC001437 | ECLASS 14.0 | 27-37-16-01 |
| ECLASS 15.0 | 27-37-16-01 | | |

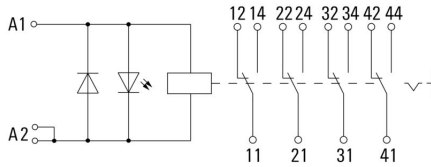
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Drawings

Wiring diagram



Graph



DC load limit curve Resistive load

Graph



Electrical service life

Graph



Derating curve

Graph



DC operational voltage range

Dimensional drawing



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Drawings

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Miscellaneous



Type codes

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Accessories

Protection modules



Pluggable protective modules for the D-SERIES relay sockets, with optional protective functions.

- With free-wheeling diode or RC filter

General ordering data

| | | | |
|------------|----------------------------|--|--|
| Type | RIM 1 6/230VDC | Version | |
| Order No. | 7760056169 | D-SERIES, Free-wheeling diode, Rated control voltage: 6...230 V, Plug- | |
| GTIN (EAN) | 4032248967728 | in connection | |
| Qty. | 10 ST | | |

LED / free-wheel diode



Pluggable protective modules for the D-SERIES relay sockets, with optional protective functions.

- With green LED and free-wheeling diode

General ordering data

| | | | |
|------------|----------------------------|---|--|
| Type | RIM 2 110/230VDC | Version | |
| Order No. | 7760056017 | D-SERIES, LED module with freewheel diode, Rated control voltage: | |
| GTIN (EAN) | 4032248896615 | 110...230 V DC, Plug-in connection | |
| Qty. | 10 ST | | |

LED



Pluggable protective modules for the D-SERIES relay sockets, with optional protective functions.

- With green LED

General ordering data

| | | | |
|------------|----------------------------|--|--|
| Type | RIM 3 110/230VUC | Version | |
| Order No. | 7940018455 | D-SERIES, LED module, Rated control voltage: 110...230 V UC, Plug- | |
| GTIN (EAN) | 4032248878185 | in connection | |
| Qty. | 10 ST | | |

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Accessories

Cross-connection for socket with screw connection

Cross-connection for the sockets in the D-SERIES DRM.



General ordering data

| | | | |
|------------|----------------------------|----------------------------------|--|
| Type | SCM-I QV S | Version | |
| Order No. | 1132080000 | RIDERSERIES RCM, Cross-connector | |
| GTIN (EAN) | 4032248912193 | | |
| Qty. | 10 ST | | |

Retaining clips

Retaining clip for D-SERIES DRM relays
 • Metal and plastic retaining clip



General ordering data

| | | | |
|------------|----------------------------|------------------------------|--|
| Type | SCM CLIP P | Version | |
| Order No. | 7760056367 | D-SERIES DRM, Retaining clip | |
| GTIN (EAN) | 6944169773334 | | |
| Qty. | 5 ST | | |

Blank



ESG is the tried-and-tested marker in MultiCard format for use on many well-known electrical devices. The result is high-quality device marking with a high-contrast appearance.

Various types are available for devices from manufacturers like Siemens, ABB, Beckhoff etc. Advantages at a glance:

- Tags for universal usage, self-adhesive or clip-on tags, depending on type
- For aligned equipment, e.g. circuit breakers, we supply ESG markers for clipping onto tag rails
- Individual laser-quality printing according to specifications

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

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Accessories

General ordering data

| | | |
|------------|----------------------------|---|
| Type | ESG 9/26 SCM ECO MC NE ... | Version |
| Order No. | 1520980000 | ESG, Device markers x 26 mm, PA 66, Colour: white, pluggable |
| GTIN (EAN) | 4050118327939 | |
| Qty. | 80 ST | |
| Type | ESG 9/26 SCM ECO MC NE ... | Version |
| Order No. | 1520990000 | ESG, Device markers x 26 mm, PA 66, Colour: yellow, pluggable |
| GTIN (EAN) | 4050118327861 | |
| Qty. | 80 ST | |
| Type | ESG 9/26 SCM ECO MC NE ... | Version |
| Order No. | 1521000000 | ESG, Device markers x 26 mm, PA 66, Colour: grey, pluggable |
| GTIN (EAN) | 4050118327878 | |
| Qty. | 80 ST | |

Custom printing



ESG is the tried-and-tested marker in MultiCard format for use on many well-known electrical devices. The result is high-quality device marking with a high-contrast appearance.

Various types are available for devices from manufacturers like Siemens, ABB, Beckhoff etc.

Advantages at a glance:

- Tags for universal usage, self-adhesive or clip-on tags, depending on type
- For aligned equipment, e.g. circuit breakers, we supply ESG markers for clipping onto tag rails
- Individual laser-quality printing according to specifications

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

| | | |
|------------|----------------------------|--|
| Type | ESG 9/26 SCM ECO MC SDR | Version |
| Order No. | 1525800000 | ESG, Device markers x 26 mm, PA 66, Colour: To customer specification, pluggable |
| GTIN (EAN) | 4050118331875 | |
| Qty. | 16 ST | |

Crosshead screwdriver, Phillips



VDE insulated screwdriver sets, for working on live parts up to 1000 V AC and 1500 V DC, DIN EN 60900. IEC 900. Each piece is "GS" safety tested. Blade made from fully hardened, high-alloy chromium-vanadium-molybdenum steel, gun-metal finish.

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Accessories

General ordering data

| | | | |
|------------|----------------------------|---|--|
| Type | SDIK SLIM PH1 X 80 | Version | |
| Order No. | 2749650000 | Screwdriver, Blade width (B): 1 mm, 80 mm, Blade thickness (A): 1 | |
| GTIN (EAN) | 4050118896398 | | |
| Qty. | 1 ST | | |

Crosshead screwdriver Phillips



VDE insulated crosshead screwdriver, for Phillips screws, SDIK PH DIN 7438, ISO 8764/2-PH, output to ISO 8764-PH, SoftFinish grip

General ordering data

| | | | |
|------------|----------------------------|---|--|
| Type | SDIK PH1 X 80 | Version | |
| Order No. | 2749890000 | Screwdriver, Blade width (B): 1 mm, 80 mm, Blade thickness (A): 1 | |
| GTIN (EAN) | 4050118897098 | | |
| Qty. | 1 ST | | |

| | | | |
|------------|----------------------------|---|--|
| Type | SDK PH1 X 80 | Version | |
| Order No. | 2749410000 | Screwdriver, Blade width (B): 4.5 mm, 80 mm, Blade thickness (A): 1 | |
| GTIN (EAN) | 4050118895636 | | |
| Qty. | 1 ST | | |

ESG 6/15



Guaranteed long service life: ESG

The multi-colour and multi-format labels have a strong adhesive layer to ensure the best possible adhesion to the underlying surface. Double laminated polyester makes the basic material very thin and yet extremely tear-resistant.

Your benefits with MultiMark

- "Different materials for various requirements"
- Can be used with equipment from many manufacturers
- Device markers with a familiar design

General ordering data

| | | | |
|------------|----------------------------|---------------------------------------|--|
| Type | ESG 6/15 MM WS | Version | |
| Order No. | 2619940000 | ESG, Device markers, 6 x 15 mm, white | |
| GTIN (EAN) | 4050118626148 | | |
| Qty. | 3000 ST | | |

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Accessories

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ESG 6/17



Guaranteed long service life: ESG

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Your benefits with MultiMark

- "Different materials for various requirements"
- Can be used with equipment from many manufacturers
- Device markers with a familiar design

General ordering data

| | | | |
|------------|----------------------------|---------------------------------------|--|
| Type | ESG 6/17 MM WS | Version | |
| Order No. | 2005100000 | ESG, Device markers, 6 x 17 mm, white | |
| GTIN (EAN) | 4050118390728 | | |
| Qty. | 3000 ST | | |