

DRL273220L**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image

Similar to illustration

Individual relays within the D-SERIES DRL

- 2 CO contacts
- Optional AC or DC coils
- With integrated status LED

General ordering data

| | |
|------------|--|
| Version | D-SERIES DRL, Relay, Number of contacts: 2, CO contact AgSnO, Rated control voltage: 220 V DC, Continuous current: 10 A, Flat blade connections (4.8 mm x 0.5 mm), Test button available: No |
| Order No. | 2765 190000 |
| Type | DRL273220L |
| GTIN (EAN) | 4064675077008 |
| Qty. | 20 items |

Technical data

Approvals

Approvals



| | |
|-------------------------|----------------------------|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate No. (cURus) | E312083 |

Dimensions and weights

| | | | |
|------------|---------|-----------------|-------------|
| Depth | 36 mm | Depth (inches) | 1.4173 inch |
| Height | 28 mm | Height (inches) | 1.1024 inch |
| Width | 21.5 mm | Width (inches) | 0.8465 inch |
| Net weight | 33.5 g | | |

Temperatures

| | | | |
|-----------------------|----------------|---------------------|--------------------------------------|
| Storage temperature | -25 °C...55 °C | Ambient temperature | -25 °C...55 °C |
| Operating temperature | | Humidity | 35 % to 85 % relative humidity level |

Environmental Product Compliance

| | |
|------------------------|-----------------------------|
| RoHS Compliance Status | Compliant without exemption |
| REACH SVHC | No SVHC above 0.1 wt% |

Rated data UL

| | |
|-------------------------|---------|
| Certificate No. (cURus) | E312083 |
|-------------------------|---------|

Control side

| | | | |
|-----------------------|-----------|------------------|----------------|
| Rated control voltage | 220 V DC | Rated current DC | 5.2 mA |
| Power rating | 0.9 W | Coil resistance | 42000 Ω ± 10 % |
| Status indicator | Green LED | | |

Load side

| | | | |
|---|---------------------------------------|---|----------------------|
| Rated switching voltage | 250 V AC | Continuous current | 10 A |
| Max. switching frequency at rated load | 0.1 Hz | Max. switching voltage, AC | 250 V |
| Inrush current | 50 A / 50 ms | AC switching capacity (resistive), max. | 2500 VA |
| DC switching capacity (resistive), max. | 300 W @ 24 V | Switch-on delay | <20 ms |
| Switch-off delay | <20 ms | Contact type | 2 CO contact (AgSnO) |
| Mechanical service life | 10 x 10 ⁶ switching cycles | Min. switching power | 10 mA @ 12 V |

General data

| | | |
|--------------------------------------|--------------------------|------------------------|
| Test button available | No | |
| Mechanical switch position indicator | Yes | |
| Colour | Transparent | |
| UL94 flammability rating component | Component | Relay cover |
| | UL94 flammability rating | V-2 |
| | Component | Relay baseplate |
| | UL94 flammability rating | V-0 |
| | Component | Relay status indicator |
| | UL94 flammability rating | HB |

Technical data

Insulation coordination

| | | | |
|---|--------------------|--|-------------------|
| Rated voltage | 250 V | Pollution severity | 3 |
| Surge voltage category | III | Insulating material group | IIIa |
| Clearance and creepage distances for control side - load side | ≥ 4 mm | Dielectric strength for control side - load side | 2.5 kVeff / 1 min |
| Dielectric strength of neighbouring contacts | 1.2 kVeff / 1 min. | Dielectric strength of open contact | 2 kVeff / 1 min |
| Impulse withstand voltage | 5 kV (1.2/50 µs) | Protection degree | IP20 |

Further details of approvals / standards

| | |
|-------------------------|---------|
| Certificate No. (cURus) | E312083 |
|-------------------------|---------|

Connection data

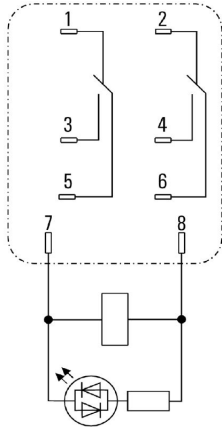
| | |
|------------------------|---|
| Wire connection method | Flat blade connections (4.8 mm x 0.5 mm) |
|------------------------|---|

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC001437 | ETIM 7.0 | EC001437 |
| ETIM 8.0 | EC001437 | ETIM 9.0 | EC001437 |
| ETIM 10.0 | EC001437 | ECLASS 9.0 | 27-37-16-01 |
| ECLASS 9.1 | 27-37-16-01 | ECLASS 10.0 | 27-37-16-01 |
| ECLASS 11.0 | 27-37-16-01 | ECLASS 12.0 | 27-37-16-01 |
| ECLASS 13.0 | 27-37-16-01 | ECLASS 14.0 | 27-37-16-01 |
| ECLASS 15.0 | 27-37-16-01 | | |

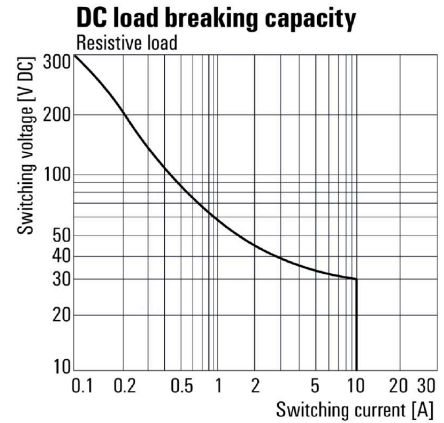
Drawings

Wiring diagram



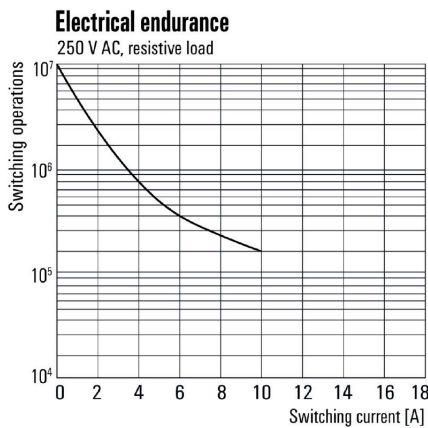
View of Pins from below

DC load limit curve



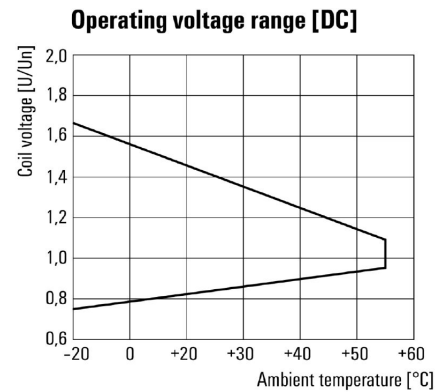
DC load limit curve Resistive load

Graph



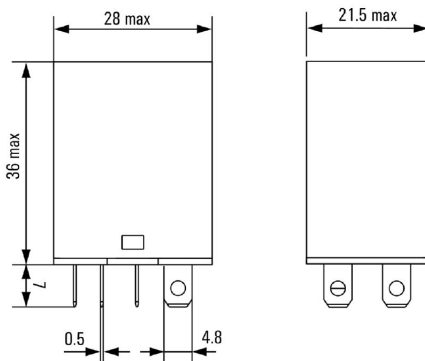
Electrical service life

Graph

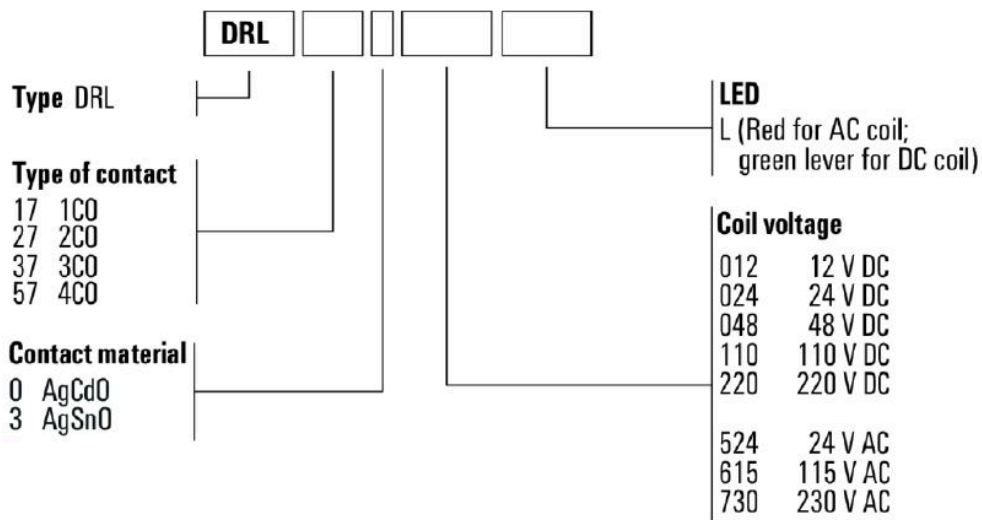


DC operational voltage range

Dimensional drawing



Miscellaneous



Type codes

DRL273220L

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Accessories

Sockets



Relay sockets for the D-SERIES DRL relays

- 2, 3 and 4 CO contacts
- Screw connection

General ordering data

| | | | |
|------------|----------------------------|--|--|
| Type | SLD F 2CO | Version | |
| Order No. | 7760056225 | D-SERIES DRL, Relay socket, Number of contacts: 2, CO contact, | |
| GTIN (EAN) | 6944169634017 | Continuous current: 10 A, Screw connection | |
| Qty. | 10 ST | | |

Retaining clips



Retaining clip for D-SERIES DRM relays

- Metal and plastic retaining clip

General ordering data

| | | | |
|------------|----------------------------|--------------------------|--|
| Type | DRM/DRL CLIP M | Version | |
| Order No. | 7760056108 | D-SERIES, Retaining clip | |
| GTIN (EAN) | 4032248855568 | | |
| Qty. | 10 ST | | |

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 | | |

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Accessories

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



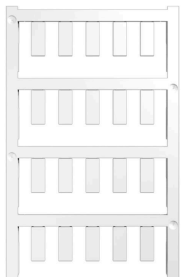
Pluggable protective modules for the D-SERIES relay sockets, with optional protective functions.

- 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 | | |

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 6/15 K MC NE WS | Version |
| Order No. | 1880100000 | ESG, Device markers x 15 mm, PA 66, Colour: white, Self-adhesive |
| GTIN (EAN) | 4032248478781 | |
| Qty. | 200 ST | |
| Type | ESG 6/15 K MC NE GE | Version |
| Order No. | 1880130000 | ESG, Device markers x 15 mm, PA 66, Colour: yellow, Self-adhesive |
| GTIN (EAN) | 4032248478910 | |
| Qty. | 200 ST | |
| Type | ESG 6/17 K MC NE GE | Version |
| Order No. | 1880110000 | ESG, Device markers x 17 mm, PA 66, Colour: yellow, Self-adhesive |
| GTIN (EAN) | 4032248478798 | |
| Qty. | 200 ST | |
| Type | ESG 6/17 K MC NE WS | Version |
| Order No. | 1880120000 | ESG, Device markers x 17 mm, PA 66, Colour: white, Self-adhesive |
| GTIN (EAN) | 4032248478804 | |
| Qty. | 200 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 | |

ESG 6/17



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

Counterpart

Sockets



- Relay sockets for the D-SERIES DRL relays
- 2, 3 and 4 CO contacts
 - Screw connection

General ordering data

| | | | |
|------------|----------------------------|--|--|
| Type | SLD F 2CO | Version | |
| Order No. | 7760056225 | D-SERIES DRL, Relay socket, Number of contacts: 2, CO contact, | |
| GTIN (EAN) | 6944169634017 | Continuous current: 10 A, Screw connection | |
| Qty. | 10 ST | | |