

**DRH173048LT****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image**

Similar to illustration

DRH DC relays (with blow-out magnet)

- 1 NO contact with contact series connection
- Optional AC or DC coils
- With test button and Integrated status LED

**General ordering data**

|            |                                                                                                                                                                                             |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Version    | D-SERIES DRW / DRH, Relay, Number of contacts: 1, CO contact AgSnO <sub>2</sub> , AgSnO, Rated control voltage: 48 V DC, Continuous current: 16 A, Flat blade connections (4.8 mm x 0.5 mm) |
| Order No.  | <a href="#">1219860000</a>                                                                                                                                                                  |
| Type       | DRH173048LT                                                                                                                                                                                 |
| GTIN (EAN) | 4032248998340                                                                                                                                                                               |
| Qty.       | 10 pc(s).                                                                                                                                                                                   |

Creation date March 23, 2021 9:16:52 AM CET

Catalogue status 12.03.2021 / We reserve the right to make technical changes.

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## Technical data

### Dimensions and weights

|                |            |                 |            |
|----------------|------------|-----------------|------------|
| Depth          | 48 mm      | Depth (inches)  | 1.89 inch  |
| Height         | 36 mm      | Height (inches) | 1.417 inch |
| Net weight     | 83.7 g     | Width           | 36 mm      |
| Width (inches) | 1.417 inch |                 |            |

### Temperatures

|                     |                                      |                       |                |
|---------------------|--------------------------------------|-----------------------|----------------|
| Storage temperature | -40 °C...60 °C                       | Operating temperature | -40 °C...60 °C |
| Humidity            | 35 % to 85 % relative humidity level |                       |                |

### Environmental Product Compliance

|            |                |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

### Rated data UL

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

### Control side

|                                |                        |                       |           |
|--------------------------------|------------------------|-----------------------|-----------|
| Coil resistance                | 1600 $\Omega \pm 10\%$ | Power rating          | 1.5 W     |
| Pull-in/drop-out voltage, typ. | 36 V / 4.8 V DC        | Rated control voltage | 48 V DC   |
| Rated current DC               | 30 mA                  | Status indicator      | Green LED |

### Load side

|                                         |                |                            |              |
|-----------------------------------------|----------------|----------------------------|--------------|
| AC switching capacity (resistive), max. | 8000 VA        | Continuous current         | 16 A         |
| DC switching capacity (resistive), max. | 2200 W @ 220 V | Inrush current             | 80 A / 50 ms |
| Max. switching frequency at rated load  | 0.1 Hz         | Max. switching voltage, DC | 300 V        |
| Min. switching power                    | 100 mA @ 12 V  | Rated switching voltage    | 500 V AC     |
| Switch-off delay                        | $\leq 20$ ms   | Switch-on delay            | $\leq 20$ ms |

### Contact data

|                         |                                           |                    |                      |
|-------------------------|-------------------------------------------|--------------------|----------------------|
| Contact type            | 1 CO contact (AgSnO <sub>2</sub> , AgSnO) | Contact resistance | $\leq 50$ m $\Omega$ |
| Mechanical service life | 10 x 10 <sup>6</sup> switching cycles     |                    |                      |

### General data

|                                      |                          |                        |
|--------------------------------------|--------------------------|------------------------|
| Test button                          | yes (lockable)           |                        |
| Mechanical switch position indicator | Yes                      |                        |
| Colour                               | Transparent              |                        |
| UL94 flammability rating component   | Component                | Housing                |
|                                      | 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                     |

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**Technical data****Insulation coordination**

|                                                |                             |                                     |                             |
|------------------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| Creepage and clearance distance input – output | ≥ 8 mm                      | Dielectric strength of open contact | 4 kV <sub>eff</sub> / 1 min |
| Dielectric strength, Input/Output              | 4 kV <sub>eff</sub> / 1 min | Insulating material group           | IIIa                        |
| Insulation coordination according to           | EN 61810-1:2008             | Pollution severity                  | 3                           |
| Protection degree                              | IP20                        | Rated voltage                       | 500 V                       |
| Surge voltage category                         | III                         |                                     |                             |

**Further details of approvals / standards**

|           |                                                                                      |                         |         |
|-----------|--------------------------------------------------------------------------------------|-------------------------|---------|
| Standards | IEC 61810-1, EN 60664-1:2007, EN 61000-6-2:2005, EN 61000-6-4:2007 + A1:2011, UL 508 | 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    |
| 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 |

**Approvals**

|                       |                                                                                      |  |  |
|-----------------------|--------------------------------------------------------------------------------------|--|--|
| Approvals             |  |  |  |
| ROHS                  | Conform                                                                              |  |  |
| UL File Number Search | E312083                                                                              |  |  |

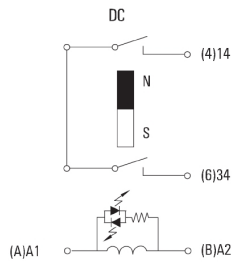
**Downloads**

|                                             |                                                                         |
|---------------------------------------------|-------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">EU Konformitätserklärung / EU Declaration of Conformity</a> |
| Engineering Data                            | <a href="#">STEP</a>                                                    |
| Engineering Data                            | <a href="#">EPLAN, WSCAD</a>                                            |

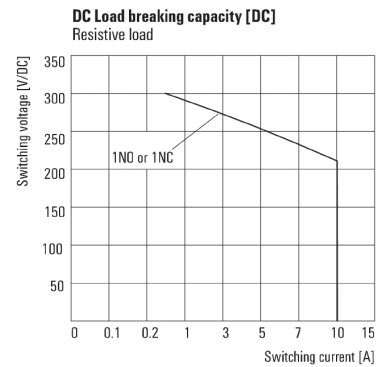
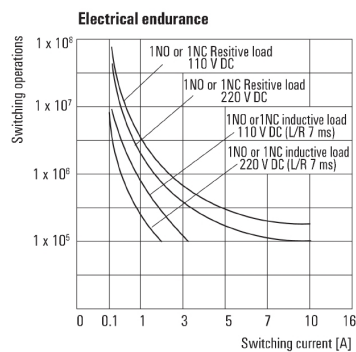
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**Drawings**
**Wiring diagram**


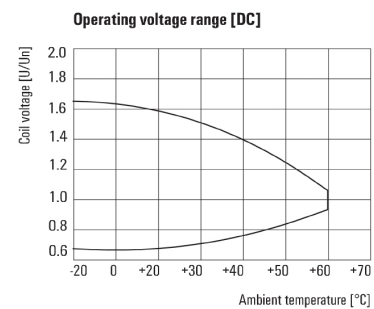
View of Pins from below

**Graph**

**Graph**


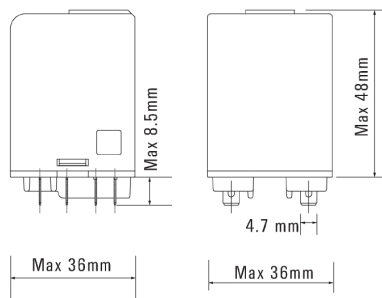
Electrical service life

**Graph**

**DC load limit curve**  
Resistive load



DC operational voltage range

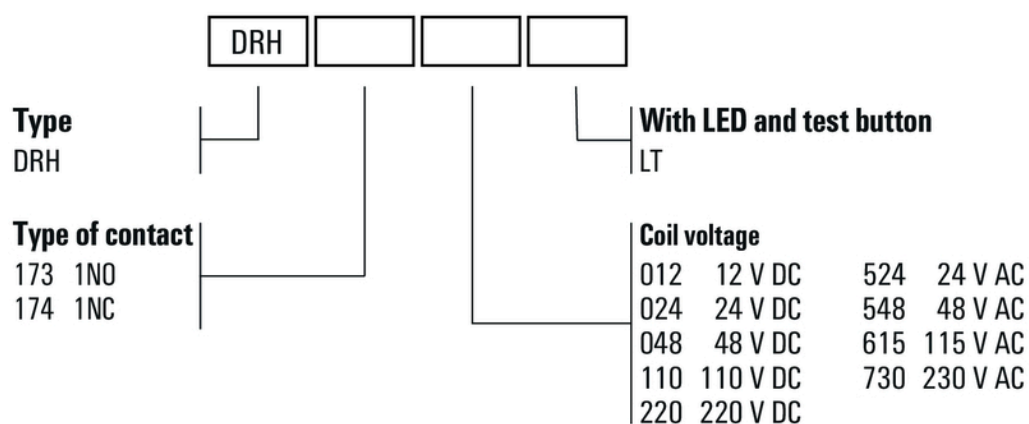
**Dimensional drawing**


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Type codes