DIN Relay 17.5 mm

KDW 3-24

Solid state switching over interface module with two output channels and galvanically separated control input with wide voltage range DIN Rail mounting according to DIN 43 880

Type: KDW 3-24/UC24-240V R
24 V solid state switching over relay
Two high side switches for 24 V/3 A
all overload and short circuit protected
suitable for all kind of loads, such as lamps, DC-motors, valves, etc.
Control input for UC 24 … 240 V (AC/DC)
LED status indicator

<table>
<thead>
<tr>
<th>Maximum load</th>
<th>3 A / 32 V</th>
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Output data for each channel
Type: Power MOS FET
High side switch
Max. switching current 3 A
Max. continuous current 3 A (5 A 1)
Max. inrush current, 1 sec 2) 20 A
Switching voltage range 9 … 32 V
Max. Load 100 W
Thermal overload protection 2) self restoring
Over current limiting 2) 20 … 30 A
Clamp voltage 41 … 52 V
Max. inductive switch-off energy 2) 0.27 … 340 Ws (see fig. 1)
ON resistance @ 25 °C ≤ 30 mΩ
Leakage current ≤ 50 µA

1) Repetitive operation: When the ratio t pulse / t cycle is a low value then the current can be increased up to 5 A @ T A ≤ 50 °C. See fig. 2.
2) Not for continuous repetitive operation

Control input V IN = UC 24-240 V (AC / DC)
Operating voltage range 18 … 255 V
Release voltage / current ≤ 8 V / ≤ 1 mA
Input current 2 mA – 8 mA
Max. power consumption 800 mW
Surge immunity EN 61000-4-5 2 kV

Insulation
Between input and outputs 2 kVrms 1 minute

General Specifications
Ambient temperature storage/operation -40 … +85 °C/-25 … +60 °C
ON delay ≤ 3 ms
Release time ≤ 4 ms
Max. Switching frequency 3600 ops/minute
Conductor cross section Stranded wire 2.5 mm², 2 x 1.5 mm²
Max. Screw torque 0.4 Nm
Ingress protection degree Housing: IP 40, terminals: IP 20
Housing material Lexan
Weight 30 g

Standard types
UC 50/60Hz (AC/DC) KDW3-24 / UC24-240V R

Accessories
Label plate: BZS-DIN17.5

Connection diagram

Fig.1 Load inductance vs. Loadcurrent

Fig. 2 Output current vs. duty cycle

Dimensions [mm]