

Opto-coupler in component housing WAVESERIES

Opto-couplers WAVESERIES

with power output
(short-circuit proof and overload proof)

WOS 2 24 VUC



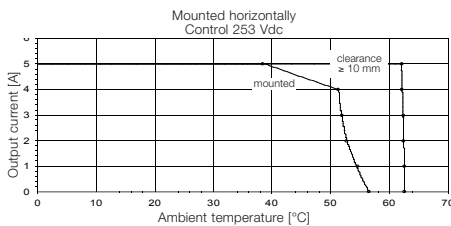
WOS 2 115 VUC



WOS 2 230 VUC



Schematic circuit diagram



WOS 2 230 VUC • 8275220000

Ordering data

Screw connection

Tension clamp connection

Input

Input voltage

Input current

Making threshold

Breaking threshold

Switch-on delay

Switch-off delay

Status indicator normal operation

Status indicator short-circuit, underload, overload

Underload

Output

Output current

Closed supply-circuit current (output not switched)

Voltage supply

Residual voltage

Protection circuit

Short-circuit in output

Temperature

Operating temperature**

Storage temperature

Mechanical data

Overall width

Housing material

Approvals

Reliable separation according to EN 50 178

Coordination of insulation according to EN 50 178

Opto-coupler according to VDE 0884

Rated voltage

Rated impulse voltage

Overvoltage category

Pollution severity

Clearance/creepage path

Accessories, dimensions and connection data see

* at ambient temperature 20 °C/horizontal installation

Type Cat. No.

WOS 2 24 Vuc **8275190000**

WOZ 2 **8430080000**

21.6 V...**24 V**...26.4 V

16.3 mA **ac** at 24 V

13.5 mA **dc** at 24 V

ca.16 V

ca.11 V

8 ms **ac** 7 ms **dc**

25 ms **ac** 25 ms **dc**

LED green in output

LED red in output*¹⁾

min. 2 mA...max. 1.5 A at Tb

25 °C...150 °C

min. 2 mA...max. 1.9 A at Tb

-40 °C...25 °C

Tb: temperature in module

direct at output driver

BTS442

short-circuit protection

5 Adc*

approx.15 mA at 28.8 V

19.2 Vdc...**24 Vdc**...28.8 Vdc

max. 400 mV

Polarity protection, varistor

yes / max. 96 h

-25 °C...+50 °C rowed

-40 °C...+85 °C

22.5 mm

Polyamide PA 66

UL/CSA

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300 V

4 kV

III

2

≥ 5.5 mm

Page 298 + 308

Type Cat. No.

WOS 2 115 Vuc **8296250000**

WOZ 2 **8429980000**

115 V, max. 130 Vuc

3.1 mA **ac** at 115 V

2.8 mA **dc** at 115 V

ca.70 V

ca.55 V

10 ms **ac** 15 ms **dc**

30 ms **ac** 30 ms **dc**

LED green in output

LED red in output*¹⁾

min. 2 mA...max. 1.5 A at Tb

25 °C...150 °C

min. 2 mA...max. 1.9 A at Tb

-40 °C...25 °C

Tb: temperature in module

direct at output driver

BTS442

short-circuit protection

5 Adc*

approx.15 mA at 28.8 V

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-25 °C...+50 °C rowed

-40 °C...+85 °C

22.5 mm

Polyamide PA 66

UL/CSA

Page 298 + 308

300 V

4 kV

III

2

≥ 5.5 mm

Page 298 + 308

Type Cat. No.

WOS 2 230 Vuc **8275220000**

WOZ 2 **8430060000**

230 V, max. 250 Vuc

12.0 mA **ac** at 230 V

1.8 mA **dc** at 230 V

ca.140 V

ca.100 V

10 ms **ac** 15 ms **dc**

30 ms **ac** 30 ms **dc**

LED green in output

LED red in output*¹⁾

min. 2 mA...max. 1.5 A at Tb

25 °C...150 °C

min. 2 mA...max. 1.9 A at Tb

-40 °C...25 °C

Tb: temperature in module

direct at output driver

BTS442

short-circuit protection

5 Adc*

approx.15 mA at 28.8 V

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300 V

4 kV

III

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≥ 5.5 mm

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*¹⁾ LED red:

hard short-circuit,

LED permanently lit.

The output is switched off and

does **not** reset itself. To reset,

the output or input must be

temporarily disconnected from

the supply voltage or input

signal.

Overload: LED cycles,

Rate: approx. 2 sec. on,

approx. 30 sec. off.

Module resets itself after the

overload is removed.

Underload: LED permanently

lit.

When an underload reco-

gnised, both LEDs are lit.

The output is switched

through