## Technical data

Data at $T_a$ = 25 °C and rated values, unless otherwise indicated

### Input circuits

| **Supply circuit** | | **A1-A2** | | |
|---|---|---|---|---|
| Rated control supply voltage $U_s$ | | 110-130 V AC | 220-240 V AC | 24-240 V AC/DC |
| Rated control supply voltage $U_s$ tolerance | | -15...+10 % | | |
| Rated frequency | | 50/60 Hz | | 50/60 Hz or DC |
| Typical current / power consumption | 24 V DC | - | - | 30 mA / 0.75 W |
| | 115 V AC | 24 mA / 2.6 VA | - | 17 mA / 1.9 VA |
| | 230 V AC | - | 12 mA / 2.6 VA | 11 mA / 2.6 VA |
| Power failure buffering time | | 20 ms | | |
| Transient overvoltage protection | | varistors | | |

| **Measuring circuit** | | **B-C** |
|---|---|---|
| Monitoring function | | over- or undervoltage monitoring configurable |
| Measuring method | | TRMS measuring principle |
| Measuring inputs | terminal connection | B-C |
| | measuring range | 3-30 V, 6-60 V, 30-300 V, 60-600 V |
| | input resistance | 600 kΩ |
| | pulse overload capacity t < 1 s | 800 V |
| | continuous capacity | 660 V |
| Threshold value | | adjustable within the indicated measuring range |
| Tolerance of the adjusted threshold value | | 10 % of the range end value |
| Hysteresis related to the threshold value | | 3-30 % adjustable |
| Measuring signal frequency range | | DC / 15 Hz - 2 kHz |
| Rated measuring signal frequency range | | DC / 50-60 Hz |
| Maximum response time | AC | 80 ms |
| | DC | 120 ms |
| Accuracy within the rated control supply voltage tolerance | | ΔU ≤ 0.5 % |
| Accuracy within the temperature range | | ΔU ≤ 0.06 % / °C |
| Transient overvoltage protection | | varistors |

| **Timing circuit** | |
|---|---|
| Time delay $T_V$ | none |
| Repeat accuracy (constant parameters) | ±0.07 % of full scale |
| Tolerance of the adjusted time delay | - |
| Accuracy within the rated control supply voltage tolerance | - |
| Accuracy within the temperature range | - |

### User interface

| **Indication of operational states** | | |
|---|---|---|
| Control supply voltage | U/T: green LED | ⎍: control supply voltage applied |
| Measured value | U: red LED | ⎍: overvoltage<br>⎍⎍: undervoltage |
| Relay status | R: yellow LED | ⎍: output relay energized, no latching function |