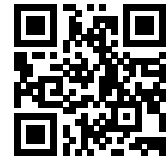


SCT5564 | Ring-type CT for differential current 0.4/2 A, type B/B+ (all-current sensitive), EN/IEC 62020-1



i Product status: Product announcement

The SCT5564 differential current transformer can be used as a residual current monitor (RCM). The SCT5564 type B/B+ can measure DC and AC residual currents with frequencies up to 100 kHz ranging from 0 to 2 A. With its selectable settings, the RCM is a flexible platform for differential current measurement that is suitable for many applications. It can be used when planning an industrial plant or when expanding the plant with new, modern DC-based loads or high switching frequencies, which can increase the leakage current in the plant.

The SCT5564 differential current transformer has an analog 4...20 mA output that represents the real-time TrueRMS (TRMS) effective value of the measured differential current. In addition, a potential-free relay output (NO/NC) with freely selectable residual current can be used for warnings or even a system shutdown if the TRMS residual current measured value exceeds the pre-set value. The status of the relay output is mapped on an LED to provide a visual indication on the device itself. Both a built-in test button and an external test button input are provided for periodic testing of the RCM in accordance with applicable product standards.

Product information

Technical data

| Technical data | SCT5564 |
|---|--|
| Measuring range differential current (I Δ n) | 0...0.4 A and 0...2 A, DC-100 kHz, type B/B+ |
| Technology | fluxgate current measurement technology |
| Transformer opening | 70 mm |

| | |
|---|--|
| Primary current | 100 A ($I_{\Delta n} = 30 \text{ mA}$) or 300 A ($I_{\Delta n} \geq 100 \text{ mA}$) |
| Permissible primary current frequency range | 0...400 Hz |
| Secondary current | 4...20 mA |
| Update interval | 1 ms (1 ksps) |
| Measurement error/ uncertainty | typ. $< \pm 2.0 \%$ relative to full scale value, see documentation |
| Output relay | max. 30 V and 1 A AC/DC |
| Rated voltage | 690 V |
| Power supply | 24 V DC (-10 %/+15 %) |
| Dimensions (W x H x D) | 151.3 mm x 161 mm x 83.4 mm |
| Special features | Test button for triggering a test routine, can also be triggered via external DO, EN/IEC 62020-1:2020. |
| Operating/storage temperature | -20...+55 °C/-40...+85 °C |
| Approvals/markings | CE |
