

48290573

TF-40 100-400A ROGOWSKI SENSOR RJ12



Strong points

- Plug & Play
- Accurate
- Smart
- Safe locking mechanism
- Simplified installation

General characteristics

Quick RJ12 connection for ease of wiring and prevention of errors
Safe mV output: on-load disconnection of the sensor
Global accuracy class 0.5 (Meter + TF sensor) according to ANSI C12.20

Compliance with standards

UL 61010 Guide PICQ File E257746
IEC 61557-12

Link to the reference

<https://www.socomec.us/en-us/reference/48290573>

TF flexible Rogowski coil current sensors are used with DIRIS Digiware I, DIRIS A, or DIRIS B Power Monitoring Devices to measure currents from 100 to 6000 A with the same guaranteed accuracy. The quick RJ12 connection, and the integrated intelligence prevent any connection or configuration errors.

TF current sensors provide a versatile solution when space is limited, wrapped around irregular-shaped conductors or busbars without disrupting the wiring and the supply, highly convenient in retrofit applications.

No external power supply is needed, as the sensor is powered from the power meter through the RJ12 connection.

----- System -----

| | |
|-----------------------------|-----|
| Fill rate E-Order Common | 29 |
| Fill rate E-Order Selection | 100 |

Certificates and Declaration

| | |
|---------------------------|--|
| Conformity to standard #1 | UL 61010-1 Guide PICQ File E257746 |
| Conformity to standard #2 | CSA-C22.2 No. 61010-1 |
| Conformity to standard #3 | IEC 61557-12 |
| Conformity to standard #4 | ISO 14025 |
| Proposition 65 California | WARNING This product can expose you to chemicals including bisphenol A (BPA), which is known to the State of California to cause birth defects or reproductive harm. For more information go to : www.P65Warnings.ca.gov |

Standards

| | |
|-------------------------|------------|
| Conformity to standards | IEC UL |
|-------------------------|------------|

Certificates and Declaration - Safety

| | |
|----------------|---------|
| UL file number | E257746 |
|----------------|---------|

General Product Characteristics

| | |
|-------------|---|
| Device type | Current sensors for DIRIS A, DIRIS B & DIRIS Digiware I |
|-------------|---|

Technical Characteristics

| | |
|-------------------------|-----------------|
| Model | TF-40 |
| Opening | 1.57 in / 40 mm |
| Rated current [A] | 100 ... 400 A |
| Secondary rated current | RJ12 |

Technical Characteristics - Electrical

| | |
|-----------------------------|---------------|
| Intermittent overload | 10x In for 1s |
| Max voltage (Phase/neutral) | 600V |
| Rated withstand voltage | 3.6kV |

Technical Characteristics - Environmental

| | |
|----------------------------|---|
| Maximum operating altitude | 6560 feet / 2000 m |
| Measurement category | CAT III |
| Operating temperature | -10 ... +70 °C / +14 °F ... +158 °F (IEC 60068-2-1/IEC 60068-2-2) |
| Relative humidity | 95% RH without condensation |
| Storage temperature | -25 ... +85 °C / -13 °F ... +185 °F(IEC 60068-2-1/IEC 60068-2-2) |

Technical Characteristics - Measurement

| | |
|----------------|--|
| Accuracy class | Class 0.5 in association with DIRIS Digiware I, DIRIS A, DIRIS B |
|----------------|--|

| | |
|--|--------------------------------|
| Current Sensor Secondary type | 100mV |
| Current sensor type | Flexible TF current sensors |
| Degree of Pollution | IP20/IK07 |
| Frequency rating | 50/60 Hz |
| ETIM - Electrical characteristics | |
| Rated primary current [A] | 400 |
| Rated secondary current [A] | 0.1 |
| Rated secondary apparent power [VA] | 0.1 |
| Accuracy class | 0.2S |
| Overcurrent limiting factor | FS 10 |
| Calibrated | Yes |
| ETIM - Mechanical characteristics | |
| With contact protection | Yes |
| Height opening [mm] | 40..40 |
| Width opening [mm] | 40..40 |
| Opening diameter [mm] | 40 |
| Snap mounting | Yes |
| With copper rail | Yes |
| Secondary connection | Plug-in connection |
| ETIM - Technical features | |
| Model | Attachable current transformer |
| Number of primary inputs | 1 |
| Logistics | |
| GTIN/EAN | 3596033018688 |
| Customs number | 8504312990 |
| Price unit | PC |
| Weight of the packing unit | 0.1 |
| Length of the packing unit | 0.043 |
| Width of the packing unit | 0.207 |
| Depth of the packing unit | 0.313 |
| Product Details | |
| Effective date | 2019-09-01 |
| Country of origin | IT |
| Discount Policy | 1EN30 |
| Discount Policy Label | SENSORS |
| Classification | |
| UNSPSC | 83101808 |
| ETIM Class | EC002048 |
| IGCC | 6042 |