

48290574

Sensor TF-80 150-600 A



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/48290574>

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
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Certificates and Declaration - Safety

UL file number	E257746
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General Product Characteristics

Device type	Current sensors for DIRIS A, DIRIS B & DIRIS Digiware I
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Technical Characteristics

Model	TF-80
Opening	3.15 in / 80 mm
Rated current [A]	150 ... 600 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
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Current rating range	150 ... 600 A
Current Sensor Secondary type	100mV
Current sensor type	Flexible TF current sensors
Degree of Pollution	IP20/IK07
Frequency rating	50/60 Hz
Full measurement range	3 ... 720 A
ETIM - Electrical characteristics	
Rated primary current [A]	600
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]	80..80
Width opening [mm]	80..80
Opening diameter [mm]	80
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	3596033018695
Customs number	8504312990
Price unit	PC
Weight of the packing unit	0.149
Length of the packing unit	0.015
Width of the packing unit	0.225
Depth of the packing unit	0.17
Product Details	
Effective date	2017-12-01
Country of origin	IT
Discount Policy	1EN30
Discount Policy Label	SENSORS
Classification	
UNSPSC	83101808
ETIM Class	EC002048
IGCC	6042