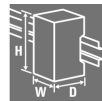


ACT20P-CMT-60-AO-RC-P**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Similar to illustration****ACT20P: The flexible solution**

- Precise and highly functional signal converters
- Release levers simplify handling

General ordering data

Version	Current-measuring transducer, Limit value monitoring, Input : 0...40/50/60 A, Analogue output, Relay output, Current-carrying cable in feed-through hole
Order No.	1510290000
Type	ACT20P-CMT-60-AO-RC-P
GTIN (EAN)	4050118319552
Qty.	1 pc(s).

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Technical data**Dimensions and weights**

Depth	114 mm	Depth (inches)	4.488 inch
Height	127.1 mm	Height (inches)	5.004 inch
Width	22.8 mm	Width (inches)	0.898 inch
Net weight	158 g		

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-25 °C...60 °C
Humidity	5...95 %, no condensation		

Probability of failure

MTTF	158 a
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Input

Input frequency		Input measurement range	configurable, 0...40/50/60 A AC or DC, max. peak current $10 \times I_{\text{Input}}$ (1 s), For DC current measurement (AA): Current direction display at the output (-/+ analog value)
	AC: 15...700 Hz (true root mean square)		
Input signal	Current-carrying cable in feed-through hole	Number of inputs	1
Overload behaviour	Max. peak current: $10 \times I_{\text{Input}}$ for 1 s		

Output

Load impedance current	$\leq 600 \Omega$	Type	active, connected control must be passive
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Output (digital)

Alarm function	Surge current, Under-current, Alarm limit setting: 2 - 105 %, Hysteresis 5% / 10%, Alarm delay: 0...10 s	Continuous current	$2 \times I_{\text{Input}}$
Max. switching frequency	20 Hz	Max. switching frequency at rated load	20 Hz
Max. switching voltage, AC	250 V	Max. switching voltage, DC	24 V
Number of digital outputs	1	Rated switching current	6 A
Type	Relay, 1 CO contact, normal / inverse adjustment		

Output (analogue)

Load resistance current	$\leq 600 \Omega$	Load resistance voltage	$\geq 10 \text{ k}\Omega$
Number of analogue outputs	1	Output current	Adjustable, 0...20 mA, 4...20 mA, -20...+20 mA
Output voltage	Adjustable, 0...10 V, 2...10 V, 0...5 V, 1...5 V, -5...+5 V, -10...+10 V	Transmit function	direct or inverted
Type (analogue output)	Voltage and current output (configurable)		

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Technical data**General data**

Accuracy		Configuration	DIP switch and potentiometer, for thresholds (overcurrent/ undercurrent), delay and hysteresis
	<0.75 % FSR		
Galvanic isolation	4-way isolator, between input / output / supply / relay	Power consumption, max.	2.2 W
Protection degree	IP20	Rail	TS 35
Step response time	≤ 300 ms (RMS), ≤ 60 ms (AA)	Temperature coefficient	0.01%/K @ 0...40 A, 0.10%/K @ 40...55 A, 0.30%/K @ 55...60 A
Voltage supply	16,8 V...31,2 V		

Insulation coordination

EMC standards		Galvanic isolation	4-way isolator, between input / output / supply / relay
	EN 61326-1		
Impulse withstand voltage	6.4 kV (1.2/50 µs)	Insulation voltage	4 kV _{eff} / 1 min.
Pollution severity	2	Rated voltage	300 V AC _{rms}
Surge voltage category	III	Test voltage	4 kV

Connection data

Type of connection	PUSH IN	Tightening torque, min.	0.4 Nm
Tightening torque, max.	0.6 Nm	Clamping range, rated connection	2.5 mm ²
Clamping range, min.	0.5 mm ²	Clamping range, max.	2.5 mm ²
Wire connection cross section AWG, min.	AWG 26	Wire connection cross section AWG, max.	AWG 14
Wire cross-section, solid, min.	0.2 mm ²	Wire cross-section, solid, max.	2.5 mm ²
Wire connection cross section, finely stranded, min.	0.2 mm ²	Wire connection cross section, finely stranded, max.	2.5 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.2 mm ²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	2.5 mm ²

Classifications

ETIM 6.0	EC002475	ETIM 7.0	EC002475
ETIM 8.0	EC002475	ETIM 9.0	EC002475
ECLASS 9.0	27-21-01-23	ECLASS 9.1	27-21-01-23
ECLASS 10.0	27-21-01-23	ECLASS 11.0	27-21-01-23
ECLASS 12.0	27-21-01-23	ECLASS 13.0	27-21-01-23

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
SCIP	2f6dd957-421a-46db-a0c2-cf1609156924
RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c, 7a, 7cl

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www.weidmueller.com**Technical data****Important note**

Product information

The ACT20P-CMT-XX-(AO)-RC-P series of devices measure and monitor AC and DC currents of up to 60 A. The real effective value method used allows for precise measurement, even for distorted current curve shapes. The devices feature integrated limit value monitoring with an adjustable switching threshold, delay and hysteresis, as well as a relay output..

Features

- Real effective value measurement (True RMS) or arithmetic averaging (AA) measurement and contactless through-hole technology
- Limit value monitoring for overcurrent or undercurrent
- Relay output by means of the open-circuit / closed-circuit principle
- Adjustable trigger delay for filtering current peaks
- Operational status and error display on a front panel LED and output signalling according to NE43, NE44, NE107
- Galvanic four-way insulation for secure isolation according to IEC/EN 61010-2-201

Approvals

Approvals



Approvals CULUS;

ROHS Conform

UL File Number Search UL Website

Certificate no. (cULus) E141197

DownloadsApproval/Certificate/Document of Conformity [Certification DNV GL](#)
[Declaration of Conformity](#)Engineering Data [CAD data – STEP](#)Software [DIP switch configuration tool](#)User Documentation [Instruction sheet](#)Catalogues [Catalogues in PDF-format](#)

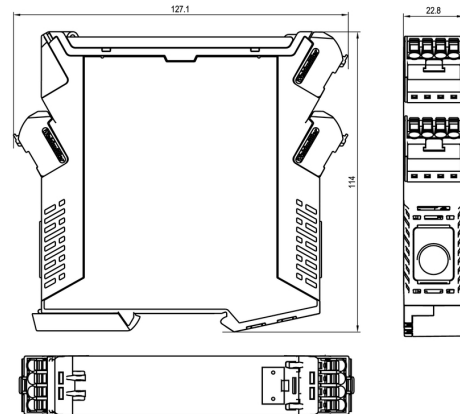
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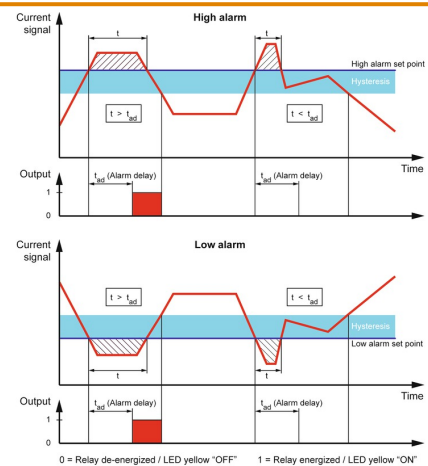
Drawings

Dimensioned drawing

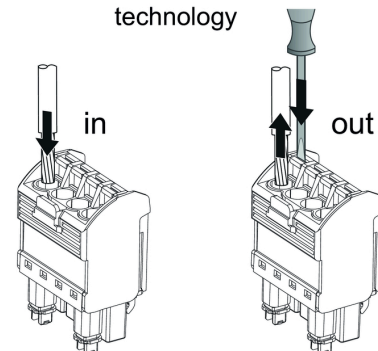


Configuration

DIP switch S1							
Current input range	1	2	3	4	5	6	7
0...40 A							
0...50 A							
0...60 A							
DIP switch S2							
Output range	1	2	3	4	5	6	7
0...10 V							
2...10 V							
0...5 V							
1...5 V							
-5...+5 V							
-10...+10 V							
0...20 mA							
-20...+20 mA							
Measuring method	1	2	3	4	5	6	7
True RMS							
Arithmetic average							
Alarm delay time	1	2	3	4	5	6	7
0 s							
2 s							
5 s							
10 s							
Measuring range monitoring	1	2	3	4	5	6	7
Yes							
No							
Output error action	1	2	3	4	5	6	7
Upscale							
Downscale							
Transfer function	1	2	3	4	5	6	7
Normal							
Inverse							



PUSH IN technology

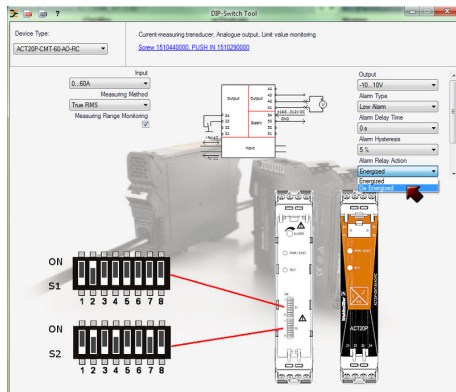


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Drawings



example for DIP switch setting (with ACT20 tool)

example for DIP switch setting (with ACT20 tool)

