

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

Klingenbergstraße 26

D-32758 Detmold

Germany

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Fax: +49 5231 14-292083

www.weidmueller.com

Similar to illustration**ACT20P: The flexible solution**

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

General ordering data

Type	ACT20P-CMT-60-RC-S
Order No.	1510390000
Version	Limit value monitoring, Signal converter/isolator, Current monitoring, Screw connection, Input measurement range: configurable, 0...40/50/60 A AC or DC
GTIN (EAN)	4050118325485
Qty.	1 pc(s).

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Technical data
Dimensions and weights

Width	22.5 mm	Width (inches)	0.886 inch
Height	119.2 mm	Height (inches)	4.693 inch
Depth	113.6 mm	Depth (inches)	4.472 inch
Net weight	158 g		

Temperatures

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

Probability of failure

MTTF	100 Years
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Input

Number of inputs	1	Input signal	Current-carrying cable in feed-through hole, Diameter 10.5 mm
Input measurement range	configurable, 0...40/50/60 A AC or DC	Input frequency	AC: 15...700 Hz (true root mean square), AC: 50 Hz (arithmetic average)

General data

Accuracy	< 0.75 % FSR, < 1.5 % FSR with measurement range 50/60 A AC	Configuration	DIP switch and potentiometer
Galvanic isolation	3-way isolator, between input/output/supply	Power consumption, max.	2.2 W
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	IEC 61326-1, IEC 61010-2-201	Galvanic isolation	3-way isolator, between input/output/supply
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 _{eff}
Surge voltage category	III		

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Technical data
Output (digital)

Alarm function	Surge current, Under-current, Alarm delay: 0...10 s, Hysteresis 5% / 10%	Number of digital outputs	1
Type	Relay, 1 CO contact, normal / inverse adjustment	Max. switching voltage, DC	24 V
Max. switching voltage, AC	250 V	Rated switching current	6 A

Connection data

Type of connection	Screw connection	Tightening torque, min.	0.4 Nm
Tightening torque, max.	0.6 Nm	Clamping range, rated connection	1.5 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 12

Ratings IECEx/ATEX/cUL

Certificate no. (cULus)	E141197
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Classifications

ETIM 6.0	EC002475	ETIM 7.0	EC002475
eClass 9.0	27-21-01-23	eClass 9.1	27-21-01-23
eClass 10.0	27-21-01-23		

Product information

Product information	The ACT20P-CMT-XX-(AO)-RC-S 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
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Approvals

Approvals



ROHS	Conform
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Technical data

Downloads

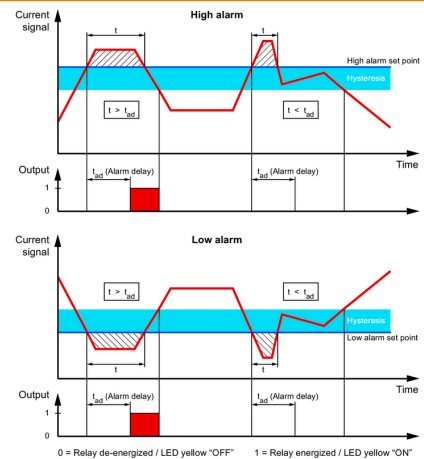
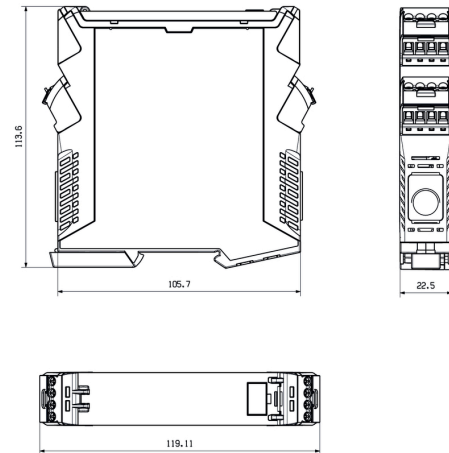
Approval/Certificate/Document of Conformity	DNV GL certification Declaration of Conformity
Brochure/Catalogue	CAT 4.1 ELECTR 16/17 EN
Engineering Data	EPLAN, WSCAD
Engineering Data	STEP
Software	DIP switch configuration tool
User Documentation	Instruction sheet

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Drawings

Dimensioned drawing



Configuration

DIP switch S1							
Current input range	1	2	3	4	5	6	7 8
0...40 A							
0...50 A							
0...60 A							
Measuring method	1	2	3	4	5	6	7 8
True RMS							
Arithmetic average							
Alarm delay time	1	2	3	4	5	6	7 8
0 s							
2 s							
5 s							
10 s							

DIP switch S2							
Alarm relay action	1	2	3	4	5	6	7 8
Energized							
De-energized							
Alarm hysteresis	1	2	3	4	5	6	7 8
5 %							
10 %							
Alarm type	1	2	3	4	5	6	7 8
High alarm							
Low alarm							

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