ACT20P-VMR-1PH-H-S

ACT20P: The flexible solution

• Precise and highly functional signal converters

• Release levers simplify handling

General ordering data

Version	Limit value monitoring, Input : 1 phase, Output : 2 x relays
Order No.	7760054164
Type	ACT20P-VMR-1PH-H-S
GTIN (EAN)	6944169689079
Qty.	1 items

ACT20P-VMR-1PH-H-S

Technical data

Approvals

Approvals	

ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E469563

Dimensions and weights

Depth	114.3 mm	Depth (inches)	4.5 inch
Height	117 mm	Height (inches)	4.6063 inch
Width	22.5 mm	Width (inches)	0.8858 inch
Net weight	198.7 g		

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-20 °C...60 °C
Humidity at operating temperature	0...95 % (no condensation)	Humidity	5...85 % rel. humidity, no condensation

Probability of failure

SIL in compliance with IEC 61508	None

Environmental Product Compliance

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

Input

Number inputs	1	Input frequency	40...60 Hz, DC
Type	single-phase	Input voltage	Channel 1: (U1-E): 110V AC/DC, Channel 2: (U2-E): 240V AC/DC, Channel 3 1: (U3-E): 400V AC/DC
Input measurement range	50...120% Urated voltage	Input resistance, voltage	1 MΩ±5%

Output

Number of outputs	2

Output (digital)

Rated switching current	5 A	Number of digital outputs	2
Max. switching voltage, AC	250 V	Max. switching voltage, DC	30 V
Hysteresis	5% of final value	Type	2 x 1 - or 1 x 2 changeover contact relay, Relay polarity can be inverted
Switch-on delay	0...10 s, configurable	Alarm function	Top and bottom limit values, window range, Holding function can be

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			activated, Alarm delay: 0... 10 s
Switching thresholds	Adjustable, MIN = 50... 100 % x URated input voltage (undervoltage alarm), MAX = 70...120 % x URated input voltage (overvoltage alarm)		

General data

Repeat accuracy	2 % *Urated voltage	Accuracy	3 % *Urated voltage
Protection degree	IP20	Supply voltage	24...240 VUC ±10%
Long-term drift	0.1 % / 10.000 h	Step response time	<220 ms (10...90 %)
Mounting rail	TS 35	Power consumption	≤ 100 mA @ 24 VDC, ≤ 120mA @ 24V AC, <2 W
Temperature coefficient	350 ppm/K	Nominal power consumption	1.5 VA
Configuration	DIP switch and potentiometer	Operating altitude	≤ 2000 m

Insulation coordination

Impulse withstand voltage	Supply/output: 4 kV; input/ output, input/output: 6 kV, 1.2/50 µs	EMC standards	EN 61326-1
Surge voltage category	III	Pollution severity	2
Galvanic isolation	between input / output / supply / relay	Insulation voltage	2.5 kV (input / output), 2 kV input / output/ power supply
Rated voltage	300 VAC (output 1 - output 2), 300 VAC (supply-output), 500 VAC (supply-input; input-output)		

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 mm²
Clamping range, min.	0.5 mm²	Clamping range, max.	2.5 mm²
Wire connection cross section AWG, min.	AWG 26	Wire connection cross section AWG, max.	AWG 12

Part description

Product description	The ACT20P-VMR-1PH-H is a monitoring relay for DC voltage or single-phase AC voltage. The device has two independent relay outputs which emit an alarm when levels exceed or fall below preset voltage limits. The alarm can also be set to trigger after an adjustable time delay. Features • Manual front-sided configuration via DIP switch, potentiometer and rotary switch • Various alarm functions: upper/lower limit value alarm, window alarm • Adjustable start and alarm delay • Front LEDs indicates operation status and malfunction[• 4-way galvanic isolation between input, output 1, output 2 and power supplywitch

Classifications

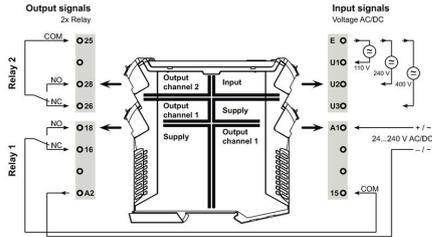|			
ETIM 8.0	EC002654	ETIM 9.0	EC002654
ETIM 10.0	EC002654	ECLASS 14.0	27-21-01-22
ECLASS 15.0	27-21-01-22		

Creation date 14.03.2026 12:48:13 MEZ

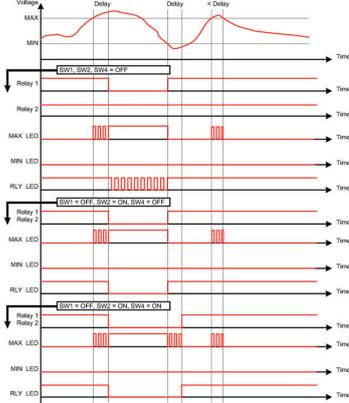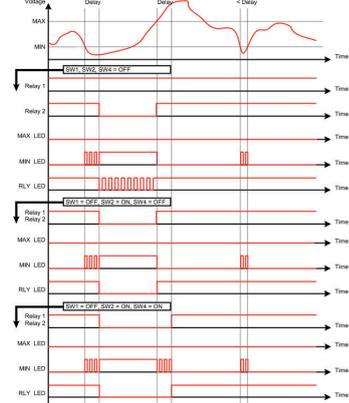**Weidmüller** ⫶⫶

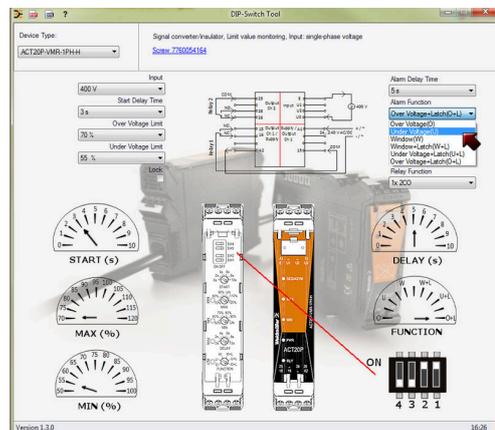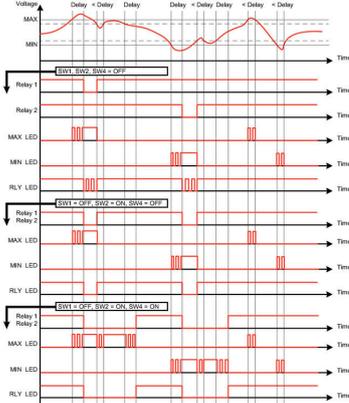## Drawings

Connection diagram

Dimensioned drawing
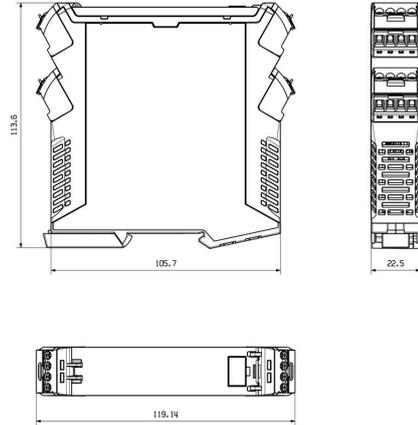
Overvoltage alarm (O)

Undervoltage alarm (U)

Window alarm (W)

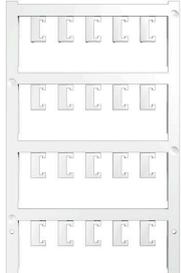example for DIP switch setting (with ACT20 tool)

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Accessories

Blank

ESG is the tried-and-tested marker in MultiCard format for use on many well-known electrical devices. The result is high-quality device marking with a high-contrast appearance.
Various types are available for devices from manufacturers like Siemens, ABB, Beckhoff etc.
Advantages at a glance:
- Tags for universal usage, self-adhesive or clip-on tags, depending on type
- For aligned equipment, e.g. circuit breakers, we supply ESG markers for clipping onto tag rails
- Individual laser-quality printing according to specifications

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

Type	ESG 6.6/20 BHZ 5.00/04	Version
Order No.	1082540000	ESG, Device markers x 20 mm, PA 66, Colour: white, pluggable
GTIN (EAN)	4032248845439	
Qty.	200 ST	
Type	ESG 8/13.5/43.3 SAI AU	Version
Order No.	1912130000	ESG, Device markers x 13.5 mm, PA 66, Colour: Transparent,
GTIN (EAN)	4032248541164	pluggable
Qty.	5 ST	