

ACT20P-VMR-3PH-ILP-H-S**Weidmüller Interfaces GmbH & Co. KG**

Postfach 3030

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Product image**General ordering data**

Version	Limit value monitoring, Input: 3-phase voltage, Relay output, 180...500 V AC, 2 x relays
Order No.	7760054165
Type	ACT20P-VMR-3PH-ILP-H-S
GTIN (EAN)	6944169689086
Qty.	1 pc(s).

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Technical data**Dimensions and weights**

Depth	114.3 mm	Depth (inches)	4.5 inch
Height	117 mm	Height (inches)	4.606 inch
Width	22.5 mm	Width (inches)	0.886 inch
Net weight	233 g		

Temperatures

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

Probability of failure

SIL in compliance with IEC 61508	None
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1	SCIP	2f6dd957-421a-46db-a0c2-cf1609156924
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Input

Input frequency	40...60 Hz	Input measurement range	200...480 VAC
Input resistance, voltage	$\geq 1,8M\Omega$	Input voltage	180...500 VAC
Number of inputs	1	Type	3-phase or 3-phase plus zero conductor, AC voltage

Output (digital)

Alarm function	Top and bottom limit values, window range, Holding function can be activated, Phase error, Phase sequence, Asymmetry, Alarm delay: 0...10 s	Hysteresis	5 % @ Phase asymmetry
Max. switching voltage, AC	250 V	Max. switching voltage, DC	30 V
Number of digital outputs	2	Rated switching current	5 A
Switching thresholds	Adjustable, MIN = 50...100 % x U_{Rated} input voltage (undervoltage alarm), MAX = 70...120 % x U_{Rated} input voltage (overvoltage alarm)	Type	2 x 1 - or 1 x 2 changeover contact relay, Relay polarity can be inverted

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Technical data

General data

Accuracy	3 % $\cdot U_{\text{rated voltage}}$	Configuration	www.weidmueller.com	DIP switch and potentiometer
Galvanic isolation	2-way isolator, between input/output	Measurement calibration	max: 70...120% $\cdot U_{\text{rated voltage}}$, min: 50...100% $\cdot U_{\text{rated voltage}}$	
Power consumption	$\leq 3\text{VA}$	Rail	TS 35	
Repeat accuracy	2 % $\cdot U_{\text{rated voltage}}$	Step response time	$\leq 100\text{ ms}$	
Switch-on delay	0...10 s, configurable	Temperature coefficient	350 ppm/K	
Type of connection	Screw connection	Unbalanced	Hysteresis: 5%, Phase imbalance in range of adjustment: 5...25%, OFF	
Voltage supply	supplied from voltage measurement inputs			

Insulation coordination

EMC standards	EN 61326-1	Galvanic isolation	2-way isolator, between input/output
Impulse withstand voltage	6 kV (input - output), 4 kV (output 1 - output 2), 1.2/50 μs	Insulation voltage	2.5 kV (input / output)
Pollution severity	2	Rated voltage	600 VAC (input - output), 300 VAC (output 1 - output 2)
Surge voltage category	III	Test voltage	0.5 kV

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

Classifications

ETIM 6.0	EC002654	ETIM 7.0	EC002654
ETIM 8.0	EC002654	ECLASS 9.0	27-21-01-22
ECLASS 9.1	27-21-01-22	ECLASS 10.0	27-21-01-22
ECLASS 11.0	27-21-01-22	ECLASS 12.0	27-21-01-22

Important note

Product information	ACT20P-VMR-3PH-ILP-H is a three-phase voltage setpoint limit monitor relay (3-phase or 3-phase plus zero conductor). The device is powered by the input measuring circuit. The device incorporates two separate relay outputs which trigger an alarm upon phase asymmetry, phase loss, phase sequence errors and phase angle errors and when exceeding or falling below preset voltage limit values. The alarm can also be set to trigger after an adjustable time delay. Features • Supply from the input measuring circuit • Manual front-sided configuration via DIP switch, potentiometer and rotary switch • Various alarm functions: phase asymmetry, phase loss, phase sequence errors, phase angle errors, alarm delay, upper/lower limit value alarm, window alarm • Front LEDs indicates operation status and malfunction. • 3-way galvanic isolation between input, output 1 and output 2.
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Approvals



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

Downloads

Approval/Certificate/Document of Conformity	Declaration of Conformity
Engineering Data	CAD data – STEP
Engineering Data	EPLAN
Software	Runtime Software – DIP switch configuration tool
User Documentation	Instruction sheet
Catalogues	Catalogues in PDF-format

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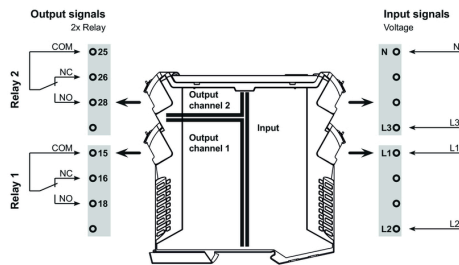
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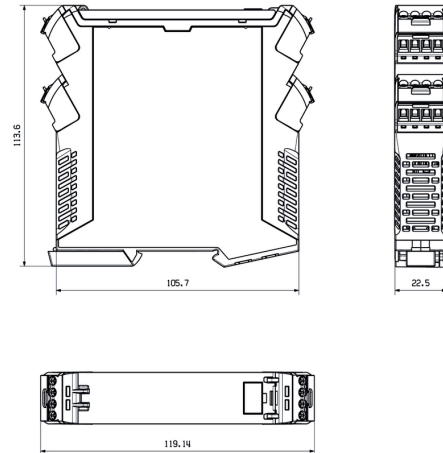
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Drawings

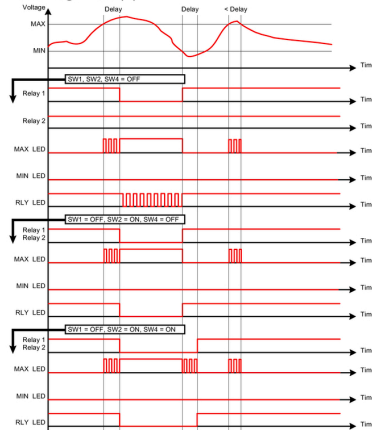
Connection diagram



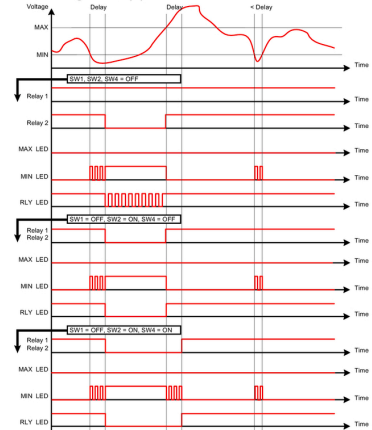
Dimensioned drawing



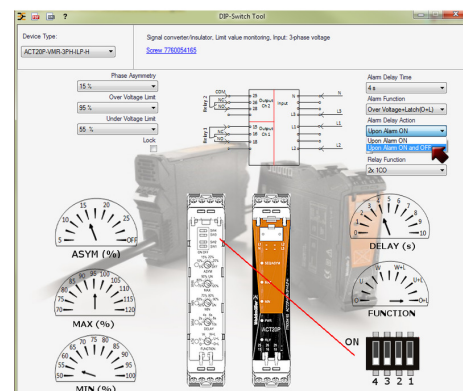
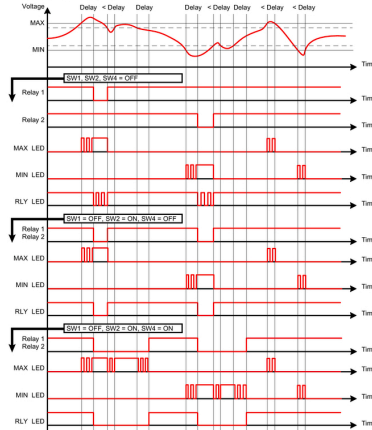
Overvoltage alarm (O)



Undervoltage alarm (U)



Window alarm (W)



example for DIP switch setting (with ACT20 tool)

Mouser Electronics

Authorized Distributor

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