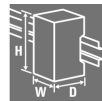


**ACT20P-VMR-3PH-ILP-H-S****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image****ACT20P: The flexible solution**

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

**General ordering data**

Version	Limit value monitoring, Input: 3-phase voltage, Relay output
Order No.	<a href="#">7760054165</a>
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	-20 °C...65 °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
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**Input**

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

**Output**

Number of outputs	2
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**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 frequency	20 Hz	Max. switching voltage, AC	250 V
Max. switching voltage, DC	30 V	Number of digital outputs	2
Rated switching current	5 A	Switch-on delay	0...10 s, configurable
Switching thresholds	Adjustable, MIN = 50...100 % x U <sub>Rated input voltage</sub> (undervoltage alarm), MAX = 70...120 % x U <sub>Rated input voltage</sub> (overvoltage alarm)	Type	2 x 1 - or 1 x 2 changeover contact relay, Relay polarity can be inverted

**General data**

Accuracy	3 % *U <sub>rated voltage</sub>	Configuration	DIP switch and potentiometer
Galvanic isolation	2-way isolator, between input/output, yes, between input/output/supply	Long-term drift	0.1 % / 10.000 h
Power consumption	≤ 3VA, <2 W	Protection degree	IP20
Rail	TS 35	Repeat accuracy	2 % *U <sub>rated voltage</sub>
Step response time	≤ 100 ms	Temperature coefficient	350 ppm/K
Voltage supply	supplied from voltage measurement inputs		

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**Technical data****Insulation coordination**

EMC standards	EN 61326-1	Galvanic isolation	2-way isolator, between input/output, yes, between input/output/supply
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 <sup>2</sup>
Clamping range, min.	0.5 mm <sup>2</sup>	Clamping range, max.	2.5 mm <sup>2</sup>
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	ETIM 9.0	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	ECLASS 13.0	27-21-01-22

**Environmental Product Compliance**

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

**Important note**

Product information	<p>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.</p> <p>Features</p> <ul style="list-style-type: none"> <li>• Supply from the input measuring circuit</li> <li>• Manual front-sided configuration via DIP switch, potentiometer and rotary switch</li> <li>• Various alarm functions: phase asymmetry, phase loss, phase sequence errors, phase angle errors, alarm delay, upper/lower limit value alarm, window alarm</li> <li>• Front LEDs indicates operation status and malfunction.</li> <li>• 3-way galvanic isolation between input, output 1 and output 2.</li> </ul>
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**Approvals**

Approvals



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

## ACT20P-VMR-3PH-ILP-H-S

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# Technical data

## Downloads

Approval/Certificate/Document of Con-  
formity

[Application notes – Declaration of Conformity](#)

Engineering Data

[CAD data – STEP](#)

Software

[DIP switch configuration tool](#)

User Documentation

[Instruction sheet](#)

Catalogues

[Catalogues in PDF-format](#)

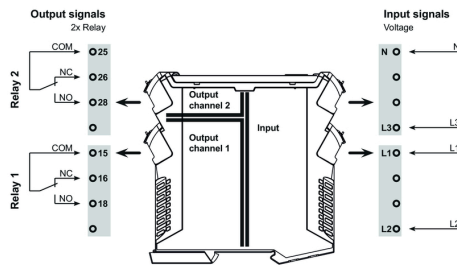
# ACT20P-VMR-3PH-ILP-H-S

**Weidmüller Interface GmbH & Co. KG**  
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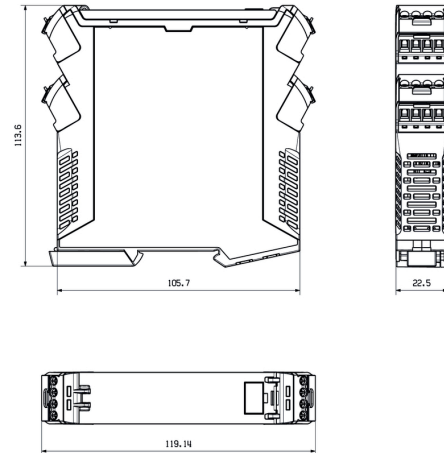
www.weidmueller.com

## Drawings

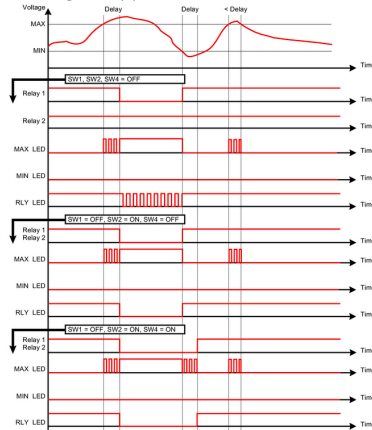
### Connection diagram



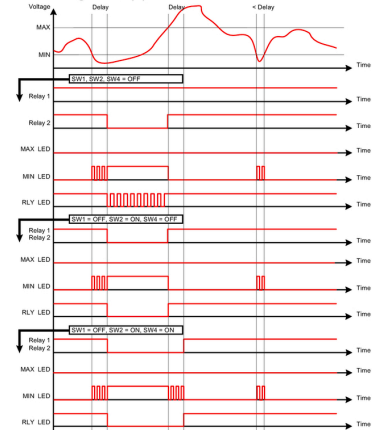
### Dimensioned drawing



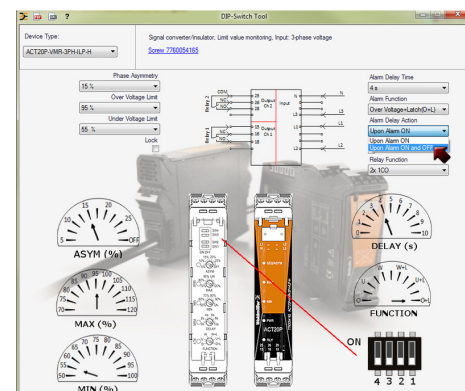
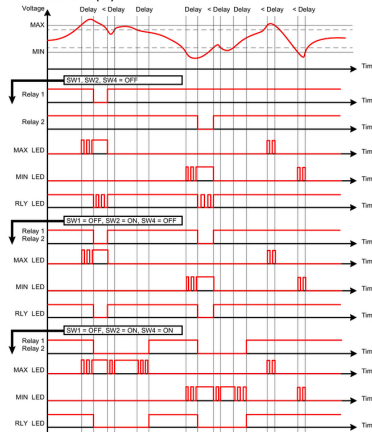
#### Overvoltage alarm (O)



#### Undervoltage alarm (U)



#### Window alarm (W)



example for DIP switch setting (with ACT20 tool)

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[www.weidmueller.com](http://www.weidmueller.com)**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.	<a href="#">1082540000</a>	ESG, Device markers x 20 mm, PA 66, Colour: white
GTIN (EAN)	4032248845439	
Qty.	200 pc(s).	

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**General ordering data**

Type	ESG 8/13.5/43.3 SAI AU	Version
Order No.	<a href="#">1912130000</a>	ESG, Device markers x 13.5 mm, PA 66, Colour: Transparent
GTIN (EAN)	4032248541164	
Qty.	5 pc(s).	