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

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

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.	7760054165
Type	ACT20P-VMR-3PH-ILP-H-S
GTIN (EAN)	6944169689086
Qty.	1 pièce(s)

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Caractéristiques techniques

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

Input

Input frequency	40...60 Hz	Input measurement range	200...480 VAC
Input resistance, voltage	≥1,8MΩ	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

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
Switch-on delay	0...10 s, configurable	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		

General data

Accuracy	3 % *$U_{rated\ voltage}$	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 % *$U_{rated\ voltage}$
Step response time	≤ 100 ms	Temperature coefficient	350 ppm/K
Voltage supply	supplied from voltage measurement inputs		

Date de création 26 novembre 2024 14:08:14 CET

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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 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

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
ECLASS 14.0	27-21-01-22		

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

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

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

Downloads

Approval/Certificate/Document of Conformity	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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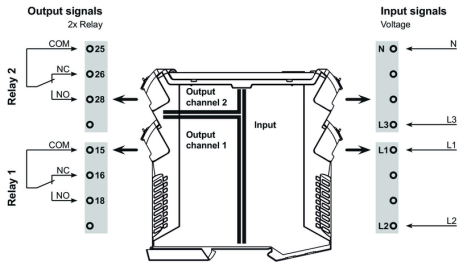
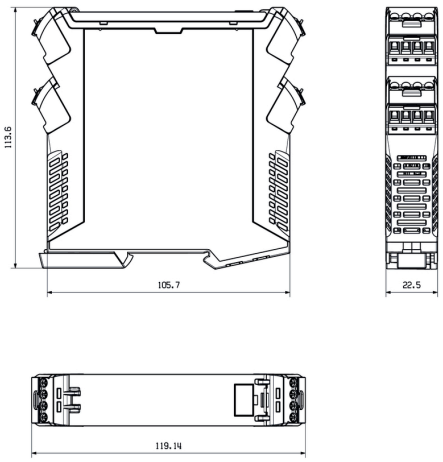
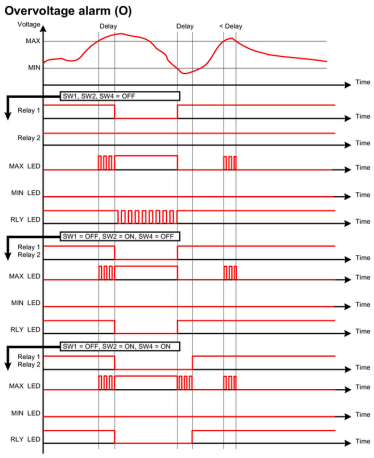
Dessins

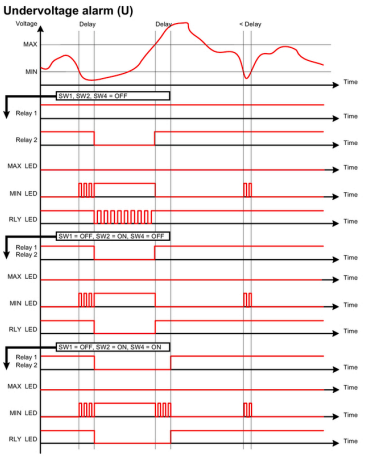
Connection diagram

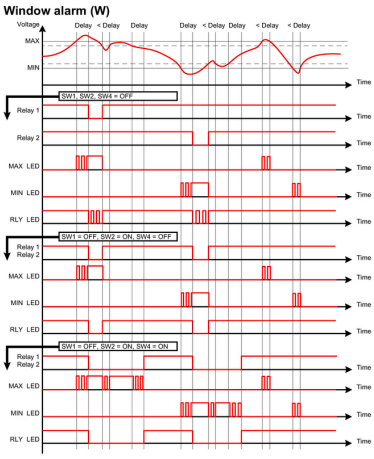


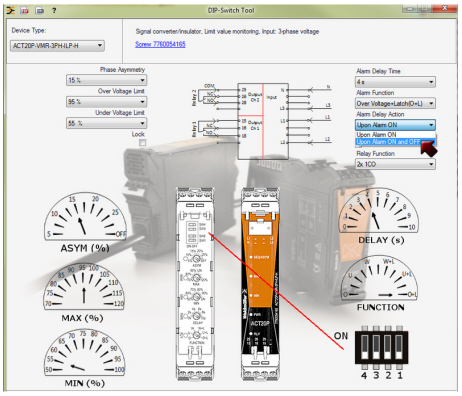
Dimensioned drawing











example for DIP switch setting (with ACT20 tool)