

DigitOP®

2024



RELIABLE PROTECTION
AND COMFORT IN YOUR HOUSE



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VP-20A G3



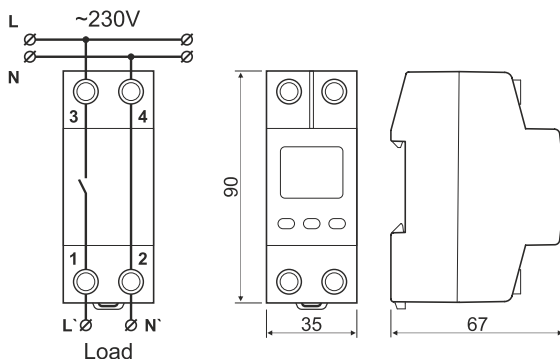
VP-25A G3



VP-32A G3



Voltage relays are designed to automatically switch off the load connected by it, if the value of the voltage in the electrical network exceeds the permissible limits. The load turns on automatically when the voltage returns to the set range.



Technical data

- Single-phase
- TrueRMS
- Overheat protection
- Work with voltage sources with unstable frequency
- Digital settings control
- Display of effective voltage
- Display of the last tripping voltage
- Automatic load reconnection after voltage normalization
- Factory reset function
- Voltmeter calibration function
- Modular design for DIN rail mounting (TS-35)

Programmable settings

- Upper and lower voltage limits
- Load connection delay time
- Operating frequency selection
- Brightness
- Buttons autolock

VP-40A G3
VP-50A G3
VP-63A G3

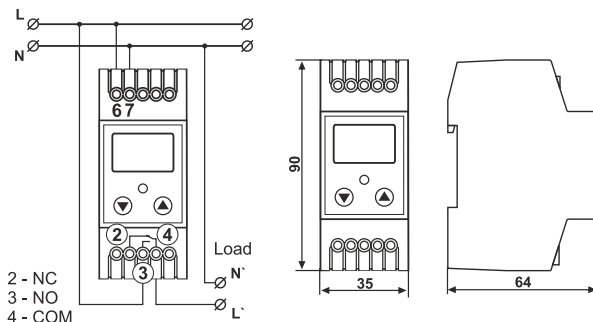

TECHNICAL SPECIFICATIONS

	VP-20A G3	VP-25A G3	VP-32A G3	VP-40A G3	VP-50A G3	VP-63A G3
Rated load current	20A	25A	32A	40A	50A	63A
Maximum load current	25A	32A	40A	50A	60A	80A
Operating voltage	50-400 V					
Mains frequency	45-65 Hz					
Upper limit response time	0,02 sec					
lower limit response time	1(120-170V), 0,02(<120V) sec, no more					
Upper voltage limit	210-270 (250*) V					
Lower voltage limit	120-200 (170*) V					
Load connection delay time	5-600(15*) sec					
Brightness	1-9(7*)					
Voltage measurement accuracy	1%					

* - factory settings



DigiTOP VP-16A / VP-16Af voltage relay is designed to automatically switch on/off the load connected by it, if the voltage value in the electrical network exceeds the permissible limits. The load turns on automatically when the voltage returns to the set range.



Technical data

- Single-phase
- Digital settings control
- Display of current voltage value
- Automatic load switching after voltage normalization
- Voltmeter calibration capability
- Modular design for DIN rail mounting (TS-35)

Programmable settings

VP-16A

- Voltage relay
- Upper voltage limit
- Lower voltage limit
- Load connection delay time

VP-16Af

- Maximum voltage relay
- Upper voltage limit
- Voltage hysteresis
- Switch-on response time

TECHNICAL SPECIFICATIONS

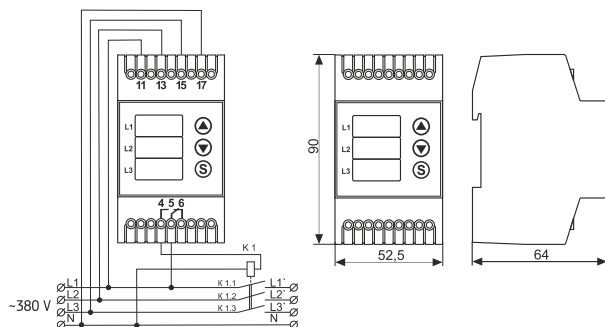
VP-16A / VP-16Af

Rated load current	10 A
Maximum load current	16 A
Operating voltage range	50 - 400 V
Upper limit response time	0,02 sec
lower limit response time	1(<200V), 0,02(<120V) sec
Upper voltage limit	210-270 (250*) V
Lower voltage limit (VP-16A)	120-200 (170*) V
Load connection delay time (VP-16A)	5-600(15*) sec
Voltage hysteresis (VP-16Af)	1-10 (5*) V
Switch-on response time (VP-16Af)	0-10 (1*) sec
Contact type	toggle (NO+NC)
Voltage measurement accuracy	1%
* - factory settings	

VP-380V



DigiTOP VP-380V voltage relay is designed to protect industrial and domestic three-phase equipment from over- or under-voltage, voltage drop, voltage asymmetry (unequal phase load), phase sequence control (function can be disabled).



Technical data

- Three-phase
- Digital settings control
- Display of current voltage value
- Automatic load switching after voltage normalization
- Voltmeter calibration capability
- Modular design for DIN rail mounting (TS-35)

Programmable settings

- Upper and lower voltage limits
- Load connection delay time
- Allowable phase asymmetry value
- Control of alternating phase sequence

TECHNICAL SPECIFICATIONS

VP-380V

Rated load current	6 A
Maximum load current	10 A
Operating voltage range for each phase	50-400 V
Upper limit cut-off time	0,02 sek
lower limit cut-off time	1(<200V), 0,02(<120V) sek
Cut-off time for phase imbalance	20 sec
Upper limit response time	210-270 (250*) V
lower limit response time	120-200 (170*) V
Load connection delay time	5-600 (15*) sec
Phase asymmetry	20-99 (50*) V
Control of alternating phase sequence	on/off (off*)
Contact type	toggle (NO+NC)
Voltage measurement accuracy	1%

* - factory settings

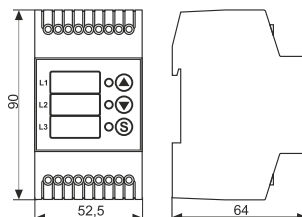
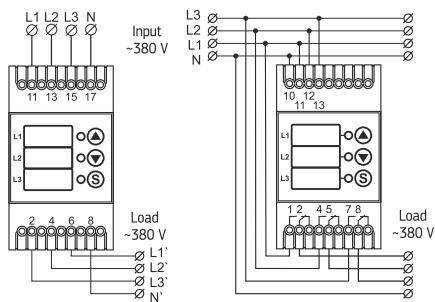
VP-3F10A



VP-3F10Af



VP-3F series voltage relays are designed to protect single-phase or three-phase loads from over- or under-voltage, voltage drop, asymmetry and phase sequence control (function can be disabled). The relays can operate as three single-phase relays.



Technical data

- Three-phase / Three single-phase
- Digital settings control
- Display of current voltage value for each phase
- Automatic load switching after voltage normalization
- Voltmeter calibration capability
- Mounting on TS-35 mounting profile (DIN rail)

Programmable settings

VP-3F10A

Voltage relay

- Upper and lower voltage limits
- Load connection delay time
- Allowable phase imbalance value
- Synchronous / asynchronous mode

VP-3F10Af

Maximum voltage relay

- Upper voltage limit on each phase
- Voltage hysteresis on each phase
- Switch-on response time on each phase
- Synchronous / asynchronous mode

TECHNICAL SPECIFICATIONS

VP-3F10A / VP-3F10Af

Rated / Maximum load current	10 / 16A
Operating voltage range for each phase	50-400V / 50 Hz
Upper limit response time	0,02 sec
Lower limit response time	1sec (<170V)/0,02sec (<120V)
Phase imbalance response time (VP-3F10A)	20 sec
Upper voltage limit	210-270 (250*) V
Lower voltage limit	120-200 (170*) V
Load connection delay time	5-600 (15*) sec
Voltage hysteresis (VP-3F10Af)	1-50 (5*) V
Switch-on response time (VP-3F10Af)	0-90 (1*) sec
Phase asymmetry (VP-3F10A)	20-99 (50*) V
Operation mode	sync/async (async*)
Phase sequence control (VP-3F10A)	on/off (off*)
Voltage measurement accuracy	1%
Housing size (17.5 mm modules)	3

* - factory settings

VP-3F40A

VP-3F63A



Technical data

- Three-phase / Three single-phase
- Digital settings control
- Display of current voltage value for each phase
- Automatic load switching after voltage normalization
- Voltmeter calibration capability
- Mounting on TS-35 mounting profile (DIN rail)

Programmable settings

- Upper and lower voltage limits
- Load connection delay time
- Allowable phase imbalance value
- Synchronous / asynchronous mode

VP-3F series voltage relays are designed to protect single-phase or three-phase loads from over- or under-voltage, voltage decay, asymmetry and phase sequence control (function can be disabled). The relays can operate as three single-phase relays.

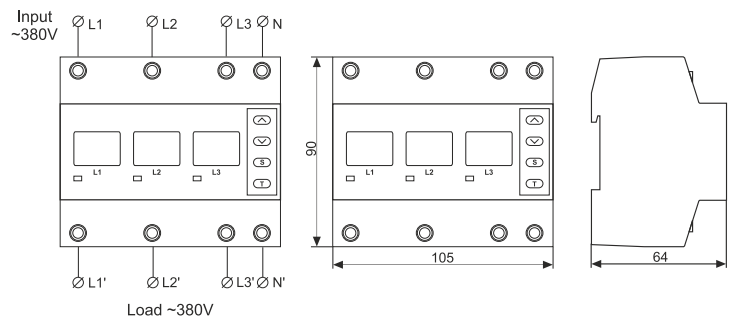
TECHNICAL SPECIFICATIONS

VP-3F40A

VP-3F63A

Rated load current per phase	40 A	63 A
Maximum load current per phase	50 A	80 A
Operating voltage range	50 - 400 V	
Mains frequency	45-65 Hz	45-65 Hz
Upper limit response time	0,02 sec	
lower limit response time	1sec(<170V) / 0,02sec(<120V)	
Phase imbalance response time	20 sec	
Upper voltage limit	210-270 (250*) V	
Lower voltage limit	120-200 (170*) V	
Load connection delay time	5-600 (15*) sek	
Phase asymmetry	20-99 (50*) V	
Operation mode	synchronous/asynchronous (asyn*)	
Phase sequence control	on/off (off*)	
Voltmeter error	1%	
Housing size (17.5 mm modules)	6	6

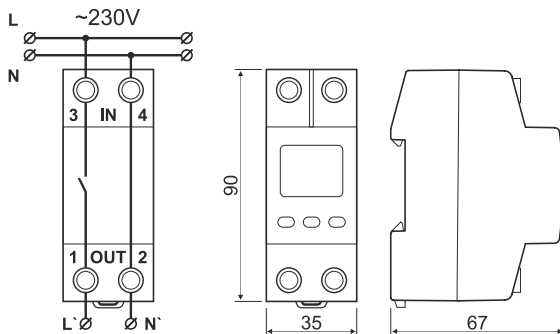
* - factory settings



Voltage relays with current control VA series are used to protect single-phase loads from voltage fluctuations in the network and from overload and short-circuit currents. The load turns on automatically when the voltage returns to the set range, or manually when the current protection tripped.

Programmable settings

- Upper and lower voltage limits
- Load connection delay time
- Overcurrent protection
- Operating frequency selection
- Brightness
- Buttons autolock



VA-25A G3



VA-32A G3



Technical data

- Single-phase
- TrueRMS
- Overheat protection
- Operation with voltage sources with unstable frequency
- Digital settings control
- Display of current value of voltage
- Display of the current value of the alternating current
- Display of last trip voltage
- Automatic load reconnection after voltage normalization
- Factory reset function
- Voltmeter calibration function
- Modular design for DIN rail mounting (TS-35)

Reliable protection of household appliances from voltage changes.

VA-40A G3
VA-50A G3
VA-63A G3


TECHNICAL SPECIFICATIONS

	VA-25A G3	VA-32A G3	VA-40A G3	VA-50A G3	VA-63A G3
Rated load current	25A	32A	40A	50A	63A
Maximum load current	32A	40A	50A	60A	80A
Operating voltage range	50-400 V				
Mains frequency	45-65 Hz				
Upper voltage limit response time	0,02 sec				
lower voltage limit response time	1(120-170V), 0,02(<120V) sec, no more				
Current limit cut-off time	$I_{nom} < I < I_{max}$ - 600 sec; $I_{max} < I < 2I_{max}$ - 5 sec $(I \geq 2I_{max})$ - 0,04 sec				
Upper voltage limit	210-270 (250*) V				
Lower voltage limit	120-200 (170*) V				
Load connection delay time	5-600(15*) sec				
Upper current limit	1-25A	1-32A	1-40A	1-50A	1-63A
Brightness	1-9(7*)				
Voltage measurement accuracy, no worse	1%				
Current measurement accuracy , no worse	2%				
Housing size (modules 17.5 mm)	2				

* - factory settings

VA-16Sens



Voltage relay DigiTOP VA-16Sens is used to protect single-phase consumers from voltage fluctuations in the network and from overload and short-circuit currents. The load turns on automatically when the voltage returns to the set range or manually when the current protection is tripped.

Programmable settings

- Upper and lower voltage limits
- Load connection delay time
- Overcurrent protection
- Operating frequency selection

Technical data

- Single-phase
- TrueRMS
- Overheat protection
- Operation with voltage sources with unstable frequency
- Digital settings control
- Display of current value of voltage
- Display of the current value of the alternating current
- Indication of load connection
- Display of last trip voltage
- Display of last trip current
- Automatic load reconnection after voltage normalization
- Factory reset function
- Voltmeter calibration function
- Connection directly to an socket
- Locking device buttons
- Ability to turn off the load

TECHNICAL SPECIFICATIONS

VA-16Sens

Maximum load current	16A
Operating voltage range	50-400 V
Mains frequency	45-65 Hz
Upper voltage limit response time	0,02 sec
lower voltage limit response time	1(<200V), 0,02(<120V) sec
Current limit cut-off time	I>16A - 5 sec; I>25A - 0,2 sec
Upper voltage limit	210-270 (250*) V
Lower voltage limit	120-200 (170*) V
Load connection delay time	5-600(15*) sec
Brightness	1-9(7*)
Voltage measurement accuracy, no worse	1%
Current measurement accuracy , no worse	2%
Housing size	105x57x72 mm

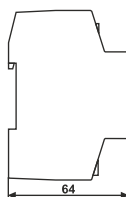
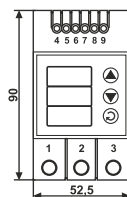
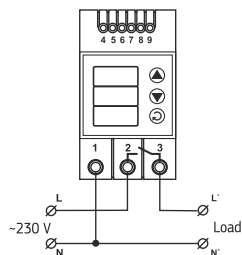
* - factory settings

MP-63A



Programmable settings

- Upper and lower voltage limits
- Upper current limit
- Load connection delay time for voltage
- Load connection delay time for current
- Operating frequency selection



Technical data

- Single-phase
- Operation with voltage sources with unstable frequency
- Digital settings control
- Display of current value of voltage
- Display of the current value of the alternating current
- Load power indication
- Automatic load reconnection after voltage normalization
- Automatic switching on when current is exceeded
- Factory reset function
- Voltmeter calibration function
- Modular design for DIN rail mounting (TS-35)

TECHNICAL SPECIFICATIONS

MP-63A

Rated load current	63 A
Maximum load current	80 A
Operating voltage range	50 - 400 V
Current range	1-63 A
Mains frequency	45-65 Hz
Upper voltage limit response time	0,02 sec
lower voltage limit response time	1 (<200V); 0,02 (<120V) sec
Current limit response time at $I \leq I_{set} + 25\%$	10 sec
Current limit response time at $I > I_{set} + 25\%$	0,02 sec
Upper voltage limit	210-270 (250*) V
Lower voltage limit	120-200 (170*) V
Upper current limit	1-63 (50*) A
Load connection delay time for voltage	5-600 (15*) sec
Load connection delay time for current	5-600 (90*) sec
Voltage measurement accuracy, no worse	1%
Current measurement accuracy, no worse	1%
Housing size (modules 17.5 mm)	3

* - factory settings

PS-10A



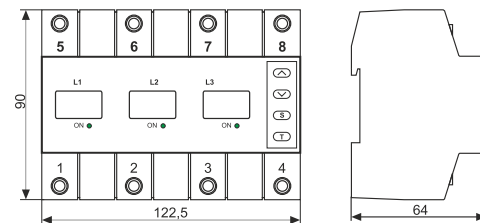
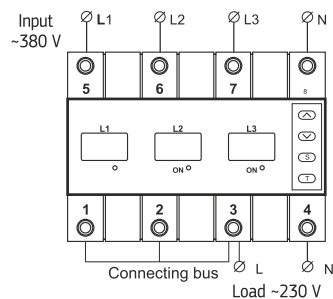
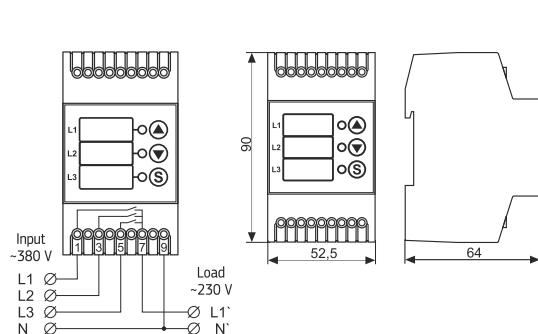
PS-40A



PS-63A



The phase selector switch is designed to supply industrial and domestic single-phase consumer 230V 50Hz from one of the phases of the three-phase network, in order to provide power to particularly critical single-phase equipment from the highest quality phase and protect them from surges or undervoltage.



Technical data

- Three-phase
- Digital settings control
- Display of current voltage value for each phase
- Automatic load reconnection after voltage normalization
- Voltmeter calibration function
- Modular design for DIN rail mounting (TS-35)

Programmable settings

- Upper and lower voltage limits
- Load connection delay time
- Switching delay time for the lower limit
- Delay time to return to the priority phase
- Priority phase

TECHNICAL SPECIFICATIONS

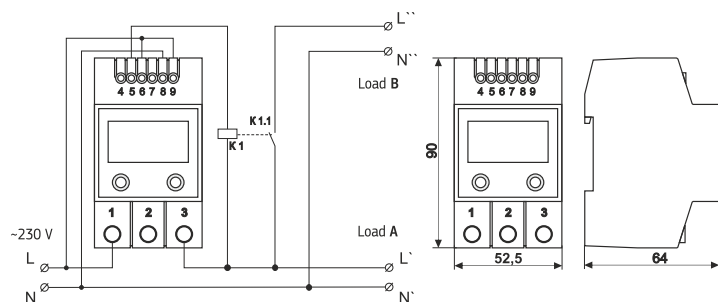
	PS-10A	PS-40A	PS-63A
Rated load current	10 A	40 A	63 A
Maximum load current	16 A	50 A	80 A
Operating voltage range for each phase		50-400 V	
Mains frequency		50 Hz	
Upper voltage limit response time		0,02 sec, no more	
lower voltage limit response time		1(<170V) 0,02(<120V) sec, no more	
Output control from contact "sticking"		+	
Upper voltage limit		210-270 (250*) V	
Lower voltage limit		120-200 (170*) V	
Priority phase		L1, L2, L3, OFF, (OFF*)	
Load switching delay time		0-600 (0*) sec	
Switching delay time for lower limit		1-10 (1*) sec	
Delay time for return to priority phase		5-120 (5*) sec	
Voltage measurement accuracy, no worse		1%	
Housing size (modules 17.5 mm)	3	7	7

* - factory settings

AP-50



The DigiTOP AP-50A digital current relay is designed to automatically switch off the load when the current in the monitored circuit exceeds the set limit. The device can be used as a priority relay.



Technical data

- Single-phase
- Digital settings control
- Display of the current value of the AC current
- Programmable upper limit for current
- Programmable reconnection delay
- Manual start-up after 3 tripping in 10 minutes
- Direct connection (built-in current transducer)
- Modular design for DIN rail mounting (TS-35)

TECHNICAL SPECIFICATIONS

AP-50

Current range	1-70 A
Upper current limit	1-50 A (40*)
Supply voltage	50 - 400 V
Mains frequency	50Hz
Current limit disconnect time at $I_{set} < I < I_{set}+25\%$	10 sec
Current limit disconnect time at $I > I_{set}+25\%$	0,02 sec
Load reconnecting delay time	1-20 min (1*)
Current measurement accuracy , no worse	1%
Contact type	toggle (NO+NC)
Maximum switching current	6 A
Housing size (modules 17.5 mm)	3
* - factory settings	

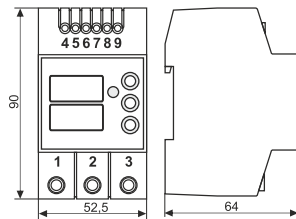
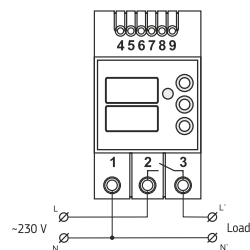
OM-7



OM-14



The power limiter is designed to control power consumption in a single-phase electrical network. The device is equipped with a voltage relay function, the parameters of which (upper and lower voltage limits and switch-on delay time) are set by the user. The device is powered from the monitored network.



Technical data

- Single-phase
- Digital settings control
- Load power indicator
- AC current/voltage indication
- Programmable voltage limits
- Programmable turn-on delay
- Automatic load reconnection after voltage normalization
- Direct connection (built-in current transducer)
- Modular design for DIN rail mounting (TS-35)

Programmable settings

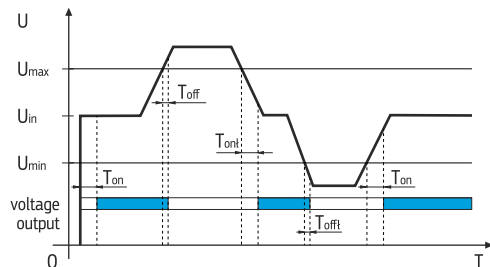
- Upper power limit
- Upper and lower voltage limits
- Load disconnection delay time for current
- Load connection delay time
- Number of restart cycles

TECHNICAL SPECIFICATIONS

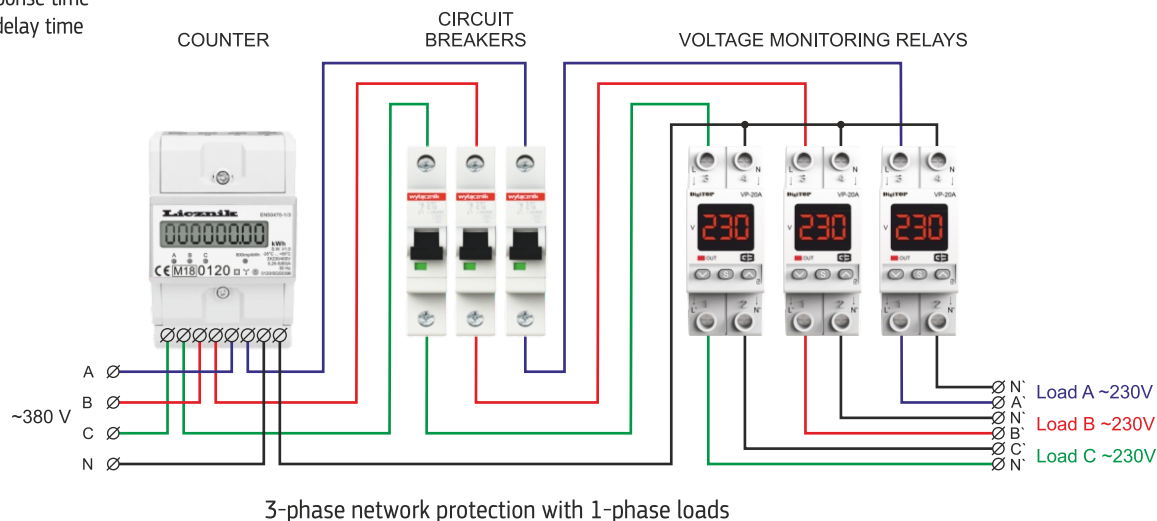
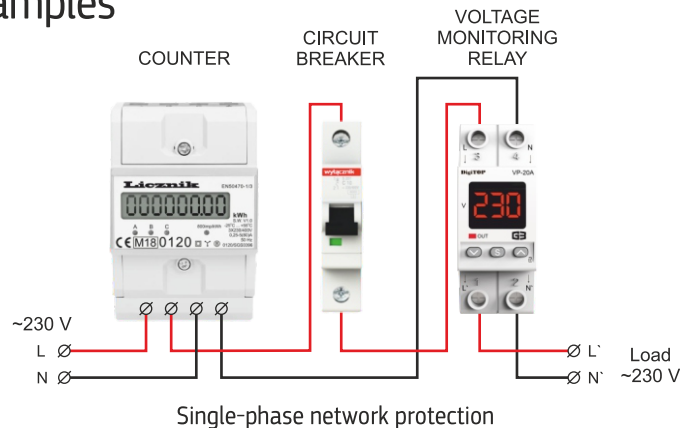
	OM-7	OM-14
Rated load current	32 A	63 A
Maximum load current	40 A	80 A
Operating voltage range	50-400 V	
Mains frequency	45-65 Hz	50 Hz
Controlled power range	0,1-7 kW	0,1-14 kW
Upper voltage limit	210-270 (250*) V	
Lower voltage limit	120-200 (170*) V	
Load connection delay time	5-600 (15*) sec	
Load disconnection delay time for current	5-300 (5*) sec	
Number of restart cycles	0-20 (0*)	
Upper voltage limit response time	0,02 sec	
lower voltage limit response time	1 (<200V) 0,02 (<120V) sec	
Housing size (17.5 mm modules)	3	

* - factory settings

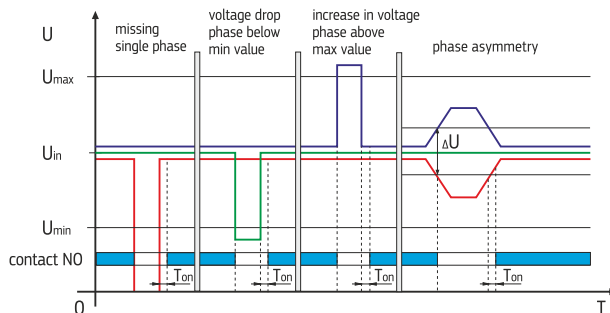
Mode of operation / Connection examples



U_{max} - upper voltage limit
 U_{min} - lower voltage limit
 U_{in} - voltage at the input
 T_{off} - voltage limit response time
 T_{on} - load connection delay time

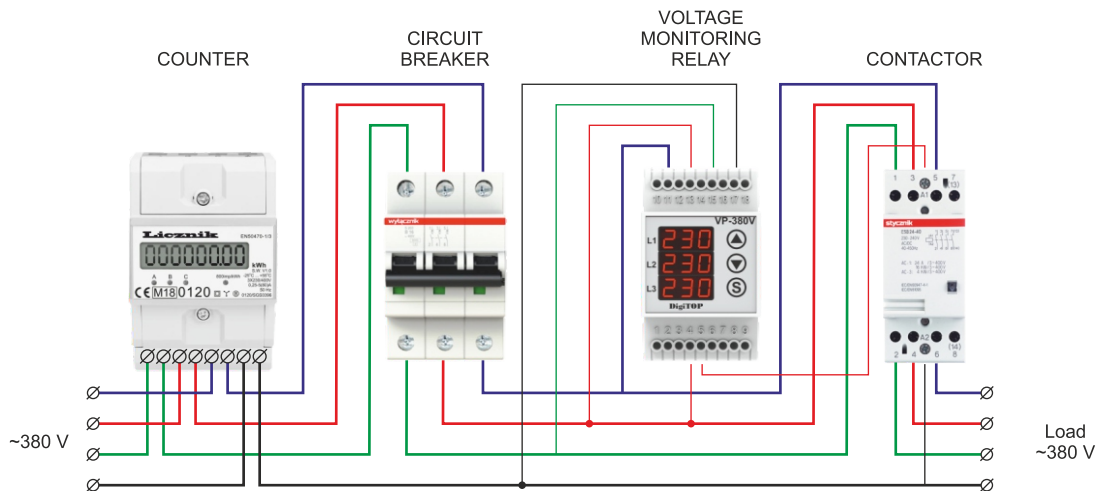


Mode of operation / Connection examples



U_{max} - upper voltage limit
 U_{min} - lower voltage limit
 U_{in} - input voltage
 ΔU - phase asymmetry
 T_{on} - load connection delay time

— phase L1
— phase L1
— phase L1

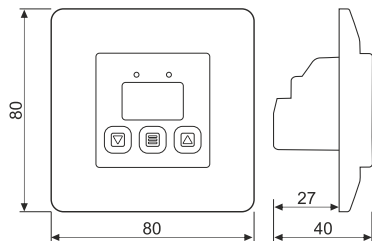
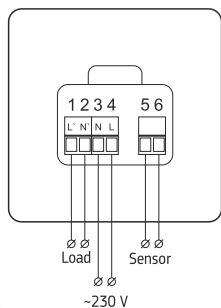


Protection of 3-phase loads

TS-1F



The TS-1F single-channel electronic temperature controller is designed to maintain the user-set temperature of electric floor heating with the display of values on the built-in digital LED indicator.

**Technical specifications**

- Single channel
- Display of controlled temperature
- Digital settings control
- Internal overheating control (with temperature indication)
- Locking device buttons
- Adjustment of indicator brightness
- Ability to turn off the load

Programmable settings

- Maintainable temperature
- Brightness of the digital indicator
- Locking device buttons

TECHNICAL SPECIFICATIONS**TS-1F**

Range of measured temperatures	-55...+125 °C
Adjustable temperature range	+5...+40 °C
Maximum load current	16 A
Sensor type	external, digital
Discreteness of indication	0,1 °C
Accuracy of temperature measurement, max	0,5 °C
Temperature hysteresis	2 °C
Sensor length	3 m
Brightness of the digital indicator	1-9
Supply voltage	~230 V / 50 Hz

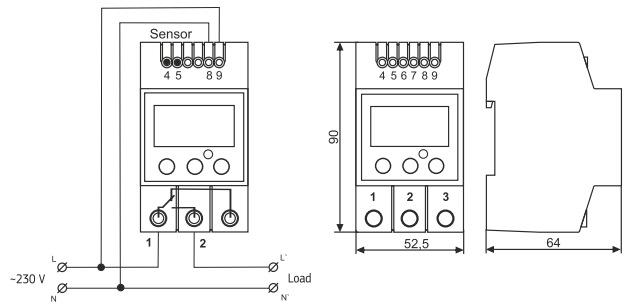
TK-4Pro



The TK-4Pro single-channel electronic temperature controller is designed to maintain the user-set temperature of an object with the display of values on the built-in digital LED indicator.

- Universal thermoregulator with five operating programs**
- Program 1 - Universal program for operation in the full temperature range with heating/cooling modes
 - Program 2 - operation in the plus temperature range in heating mode
 - Program 3 - program for floor heating control
 - Program 4 - program for de-icing system
 - Program 5 - program for interval operation without temperature sensor

Program	Temperature supported, °C	Hysteresis, °C	Operation mode
Program 1	-55,9...+125,9	0,1...39,9	HEATING/COOLING
Program 2	0...+125	1...20	HEATING
Program 3	+5...+40	2	HEATING
Program 4	0...+10 upper limit	-20...-1 lower limit	HEATING
Program 5	10...90 - load on time in percent		



TECHNICAL SPECIFICATIONS

TK-4Pro

Range of measured temperatures	-55... +125 °C
Number of measurement channels	1
Maximum load current	25 A
Discreteness of temperature indication	0,1°C (od -9,9 do +99°C) 1°C (in the rest)
Sensor type	external, digital
Sensor length	1,5 m.
Contact type	toggle (NO+NC)
Temperature measurement accuracy, max	0,5 °C
Power supply voltage	~230 V, 50 Hz
Power consumption, no more	3 W
Housing size (17.5 mm modules)	3

Temperature regulators (thermoregulators) are designed to maintain the user-set temperature of an object with the display of the value on a built-in digital LED indicator. There are one-, two- and three-channel thermoregulators. They can be used to regulate the temperature in the room and to control technological processes.

TK-3



Universal thermoregulator operating in heating or cooling mode, one measuring channel

TK-4



Universal thermoregulator operating in heating or cooling mode, one measuring channel

TECHNICAL SPECIFICATIONS

Number of measurement channels
Range of measured temperatures
Adjustable temperature range
Discreteness of indication
Temperature measurement accuracy, no worse
Temperature hysteresis (Δt)
Operation mode
Contact type
Supply voltage
Power consumption
Housing size (17.5 mm modules)

TK-3

1
-55... +125°C
-55... +125°C
0,1°C (-9,9...+99°C), 1°C
0,5 °C
0,1...39,9°C
Heating or Cooling
1 toggle (NO+NC), 6A
~230V, 50Hz
max 3 W
2

TK-4

1
-55... +125°C
-55... +125°C
0,1°C (-9,9...+99°C), 1°C
0,5 °C
0,1...39,9°C
Heating or Cooling
1 toggle (NO+NC), 16A
~230V, 50Hz
max 3 W
3

TK-4K

The thermoregulator operates in the following modes heating or cooling, in the positive temperature range up to 1000°C, one measuring channel

TK-4K

1
0... +999°C
0... +999°C
1°C
3 °C
1...99°C
Heating or Cooling
1 toggle (NO+NC), 16A
~230V, 50Hz
max 3 W
3

TK-5

Thermoregulator for control of electric heating systems with control of the temperature of the heat carrier. Two channels of control and measurement.

TK-5

2
0°C...+125°C, krok: 1°C
0°C...+85°C, krok: 1°C
1 °C
0,5°C
1...20°C
Heating
2 x ~230V / 6A
~230V, 50Hz
max 3 W
3

TK-6

The thermoregulator operates in heating or cooling mode with two independent control and measurement channels.

TK-6

2
-55... +125°C
-55... +125°C, krok: 0,1°C
0,1°C (-9,9...+99°C), 1°C
0,5 °C
0,1...39,9°C
Heating or Cooling
2 toggle (NO+NC), 6A
~230V, 50Hz
max 4 W
3

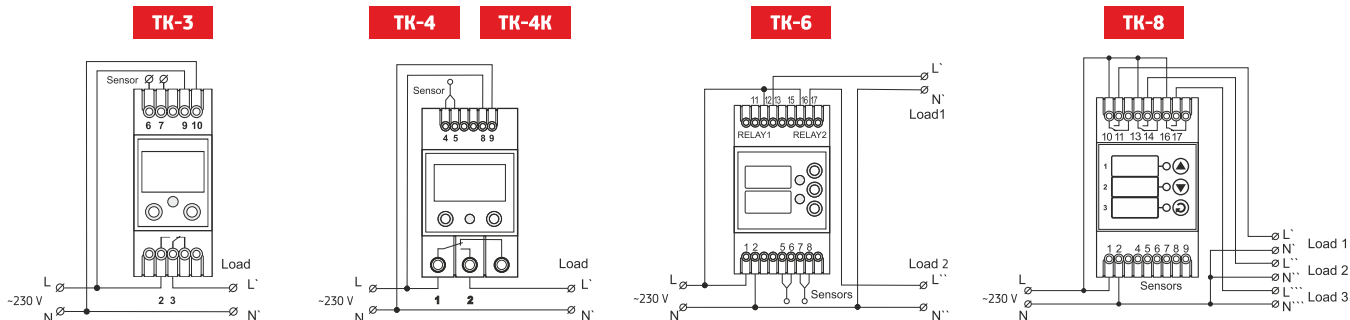
TK-8

The thermoregulator operates in heating or cooling mode with three independent control and measurement channels.

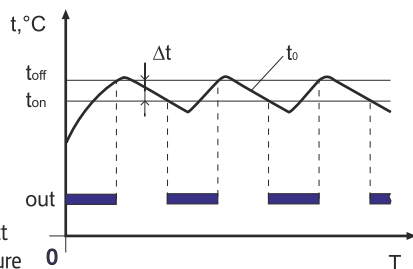
TK-8

3
-55... +125°C
+55... +125°C, krok: 0,1°C
0,1°C (-9,9...+99°C), 1°C
0,5 °C
0,1...39,9°C
Heating or Cooling
3 toggle (NO+NC), 6A
~230V, 50Hz
max 5 W
3

Wiring diagrams / Operation mode / Connection examples

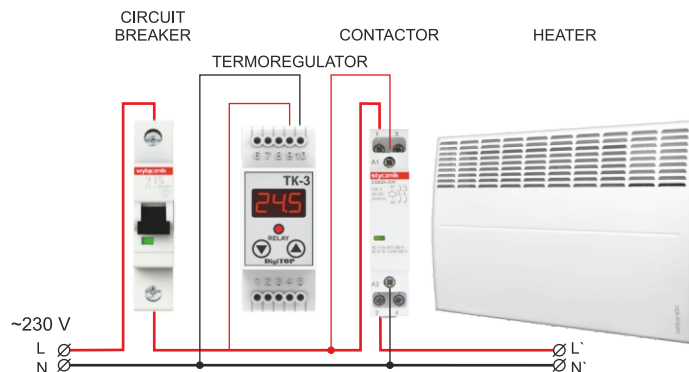
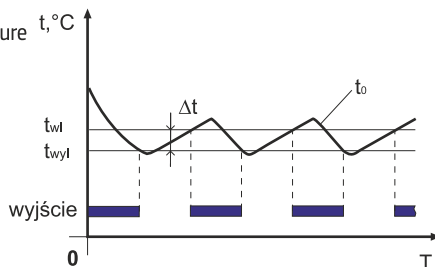


Heating mode



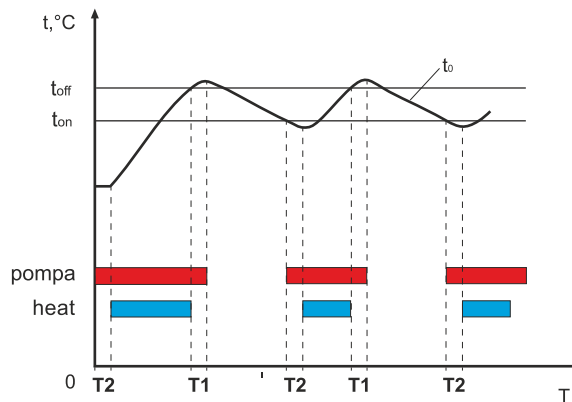
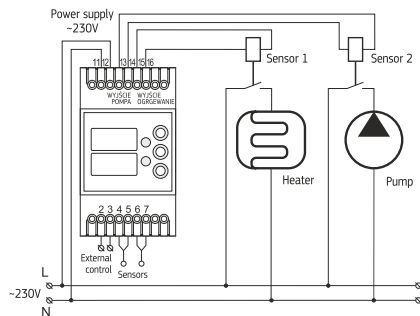
$t_0, ^\circ\text{C}$ - temperature of the object
 $t_{\text{off}}, ^\circ\text{C}$ - switching off temperature of the thermoregulator
 $t_{\text{on}}, ^\circ\text{C}$ - switching on temperature of the thermoregulator
 $\Delta t, ^\circ\text{C}$ - hysteresis zone
 T - time

Cooling mode

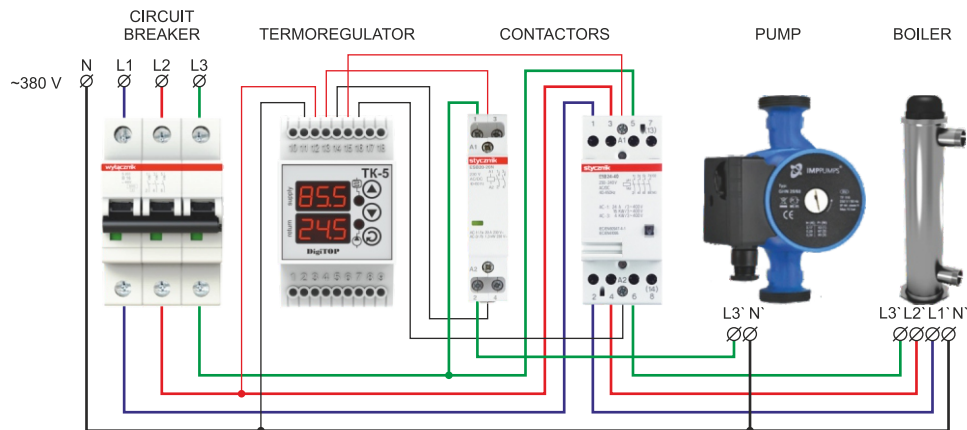


Example of heating control with the use of TK-3 thermoregulator

TK-5



$t_o, ^\circ\text{C}$ - temperature of the object
 $t_{\text{off}}, ^\circ\text{C}$ - heating switching off temperature
 $t_{\text{on}}, ^\circ\text{C}$ - heating switching on temperature
 T_1 - pump switch-off delay time
 T_2 - delay time switching on of heating



Example of controlling a three-phase electric boiler and a single-phase pump using a TK-5 thermoregulator

PB-2C



PB-2H



PB-6C



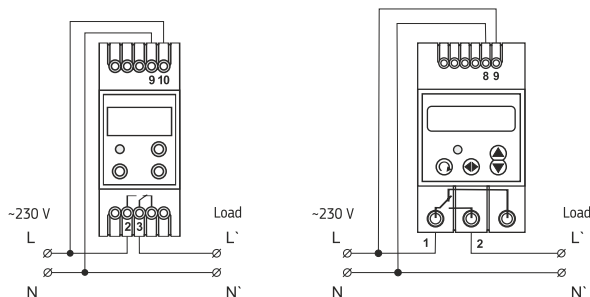
PB-6H



Programmable time relays are designed to turn on or off various consumers at user-specified points in time.

Technical data

- Daily or weekly cycle
- Real time clock
- Digital settings control
- Modular design for DIN rail mounting (TS-35)



TECHNICAL SPECIFICATIONS

	PB-2C	PB-2H	PB-6C	PB-6H
Built-in clock	+	+	+	+
Work cycle	day	week	day	week
Number of time marks	99/day	16/day	99/day	16/day
Rated load current	6A	6A	16A	16A
Contact type		toggle (NO+NC)		
Supply voltage		~230V, 50Hz		
Power consumption		max 3 W		
Housing size	2	2	3	3
(17.5 mm modules)				

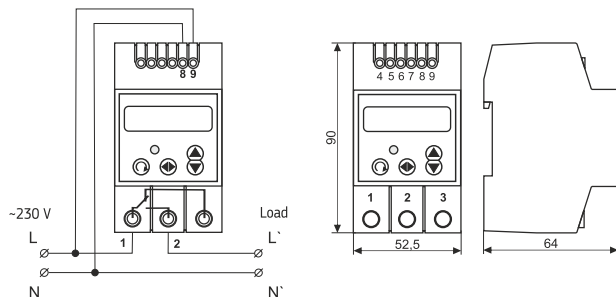
T-2



Technical data

- Four working programs:
 - countdown
 - countdown with a delay for switching on
 - cyclic countdown of time intervals
 - cyclic countdown of time intervals a certain number of times
- Digital settings control
- Modular design for DIN rail mounting (TS-35)

Timers turn the load on or off at specific intervals, without reference to astronomical (real) time.

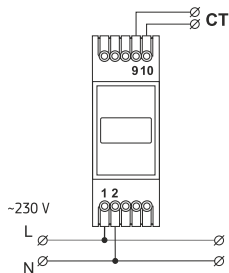


TECHNICAL SPECIFICATIONS

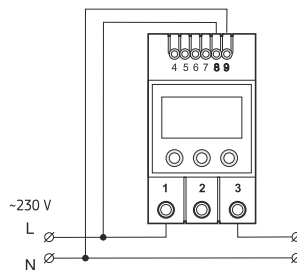
T-2

Rated load current	16A
Number of indicator digits	6
Time interval T1	00h 00m 01s...99h 59m 59s
Time interval T2	00h 00m 01s...99h 59m 59s
Contact type	toggle (NO+NC)
Supply voltage	~230(±10%)V, 50Hz
Power consumption	max 3 W
Housing size (modules 17.5 mm)	3

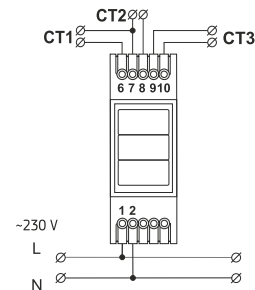
AM-1



AM-2



AM-3



Technical data

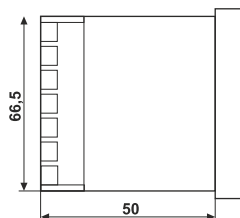
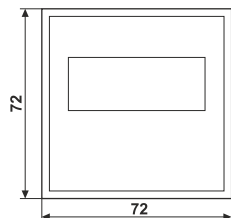
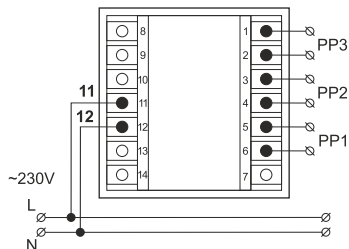
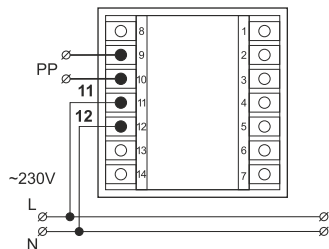
- Display of current value AC current
- Integrated (AM-2) or external current transformer (AM-1, AM-3)
- Modular design for DIN rail mounting (TS-35)

TECHNICAL SPECIFICATIONS

	AM-1	AM-2	AM-3
Measured current		1-63A	
Number of measured phases	1	1	3
Supply voltage		~230V, 50 Hz	
Current transformer	External	Integrated	External
Measurement accuracy		max 1%	
Protection degree		IP20	
Housing size (modules 17.5 mm)	2	3	2

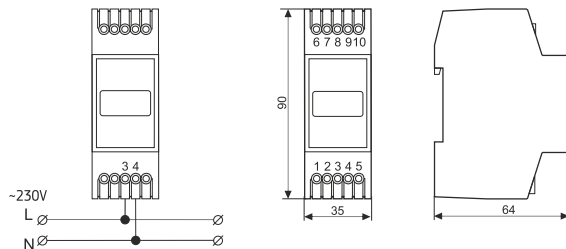
AM-1M**AM-3M****Technical data**

- Single-phase / three-phase
- Display of current value of AC current
- External current transformers included

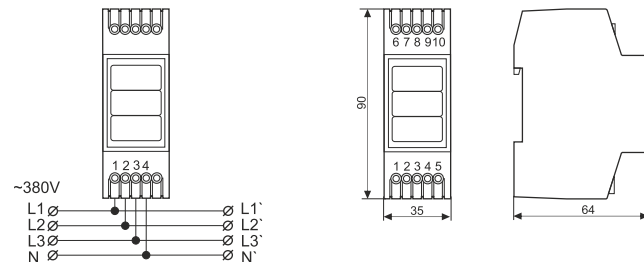
**TECHNICAL SPECIFICATIONS**

	AM-1M	AM-3M
Measured current	1-63A	
Number of measured phases	1	3
Supply voltage	~230V, 50 Hz	
Current transformer	External	
Measurement error	max 1%	
Degree of protection	IP20	
Housing cutout	68x68 mm	

BM-1



BM-3



Technical data

- Display of current voltage value
- Modular design for DIN rail mounting (TS-35)

TECHNICAL SPECIFICATIONS

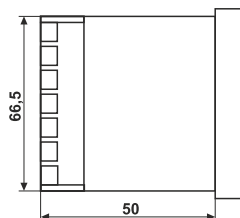
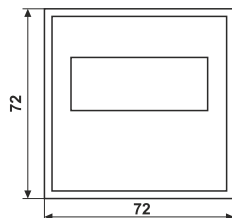
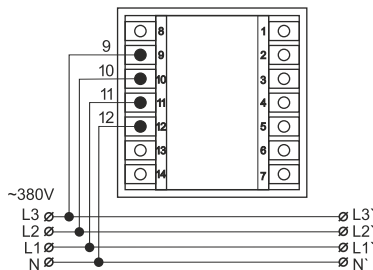
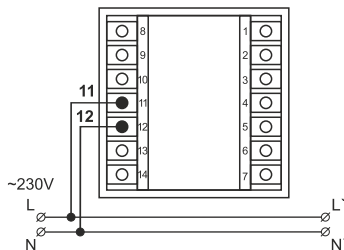
	BM-1	BM-3
Number of phases measured	1	3
Number of voltage indicators	1	3
Supply voltage	~50-400 V, 50 Hz	
Limits of phase voltage measurement	~50-400	
Measurement accuracy	max 1%	
Protection degree	IP20	
Housing size (modules 17.5 mm)	2	

BM-1M

BM-3M


Technical data

- Single phase / three phase
- Display of the current voltage value



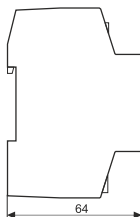
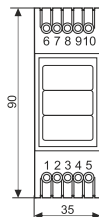
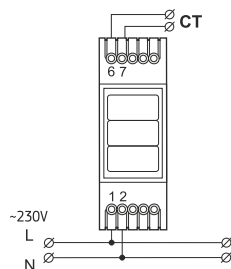
TECHNICAL SPECIFICATIONS

Number of phases measured	1	3
Number of voltage indicators	1	3
Supply voltage	~50-400 V, 50 Hz	
Limits of phase voltage measurement	~50-400	
Measurement accuracy	max 1%	
Protection degree	IP20	
Housing size (modules 17.5 mm)	68x68 mm	

VAFM-1



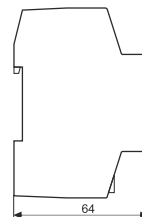
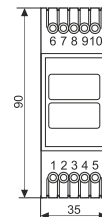
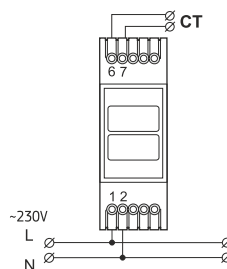
Ammeter-voltmeter
-frequency meter



AVM-1



Ammeter-voltmeter



Technical data

- Single-phase
- Display of current value of voltage
- Display of current value of alternating current
- Display of current value of frequency AC current (VAFM-1 only)
- External current transformer included
- Modular design for DIN rail mounting (TS-35)

TECHNICAL SPECIFICATIONS

	VAFM-1	AVM-1
Measured voltage	50-400	50-400
Measured current	1-63	1-63
Measured frequency	30-75	-
Measurement accuracy	1	1
Power consumption, no more	3	3
Degree of protection	IP20	IP20
Housing size (modules 17.5 mm)	2	2



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