

Щитовые электромагнитные измерительные приборы типа EP27 и EP29



Применение:

Щитовые электромагнитные измерительные приборы типа EP27 и EP29 с переключателем предназначены для измерения действующего фазного и линейного значения напряжения в 3 фазной 4-х проводной электрической сети.

Шестипозиционный переключатель, установленный на фронтальной стороне, позволяет выбор измеренного напряжения в шести отдельных точках трёхфазной четырёхпроводной сети.

Основные требования , безопасность использования:

Приборы EP27 и EP29 предназначены для монтажа в щитах и распределительных шкафах. Он соответствуют стандартным требованиям в соответствии с EN 61010-1.

технические данные

фронтальная рамка	9t		5Lb
класс точности	9t		

диапазон измерения

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Rated operating conditions:

- ambient temperature	acc. EN-61010-1
- working position	5...23...40°C
	acc. order $\pm 5^\circ$ (given on the scale)

Additional errors in the limits of rated operating conditions

acc. EN 60051-1

Safety requirements:

acc. EN 60010-1

- installation category	III
- level of pollution	2
- maximal working voltage in relation to the earth	300 V a.c.

Protection grade:

- case	IP 50
- terminals	IP20 (with the terminal cover)

Electromagnetic compatibility:

The EP27 and EP29 voltmeters fulfils CE mark requirements:

- emission	acc. EN 61000-6-4
- immunity	acc. EN 61000-6-2

External dimensions:

- EP27	72 x 72 x 78 mm (without a terminal cover)
- EP29	96 x 96 x 87 mm (with a terminal cover)

Panel cut-out:

- EP27	68 ^{+0,7} x 68 ^{+0,7} mm
- EP29	92 ^{+0,8} x 92 ^{+0,8} mm

Case material

ABS thermoplastics

Weight:

- EP27	200 g (without a terminal cover)
- EP29	290 g (with a terminal cover)

Category of climate versions

If it is not stipulated in another way, these meters are destined to be applied in closed rooms, without air conditioning systems and in conditions of a moderate climate, acc. EN 60068-1 standard.

On customers' request, these meters can be adapted to be applied in dry or wet tropical climate conditions, and also in closed rooms without air conditioning.

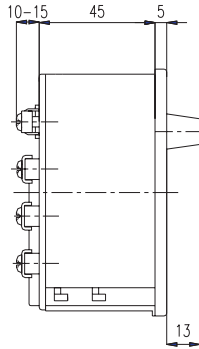
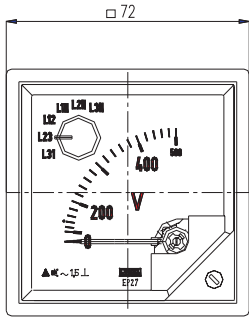
Then, they are marked with the TIII symbol.

ACCESSORIES

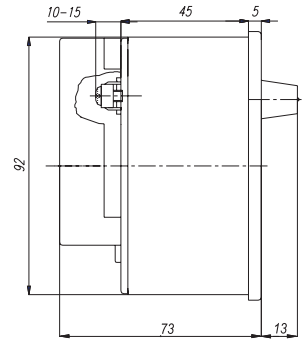
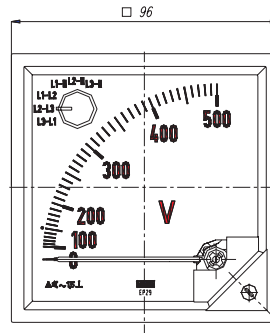
We deliver together with the meter

- two screw holders to fix the meter on the panel,
- a terminal cover (only for EP29 voltmeter),
- a voltage transformer (on request, if ordered),
- a service manual,
- a guarantee certificate.

OVERALL DIMENSIONS



EP27

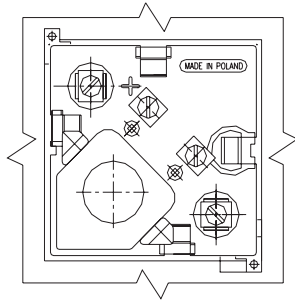
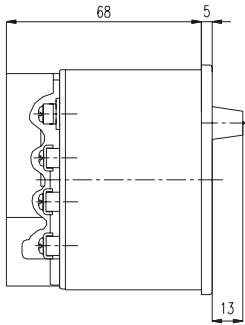


EP29

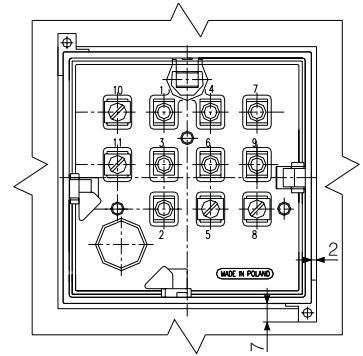
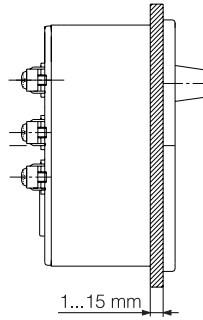
INSTALLATION

Panel cut-out for EP27 : $68^{+0.7} \times 68^{+0.7}$ mm

Panel cut-out for EP29 : $92^{+0.8} \times 92^{+0.8}$ mm



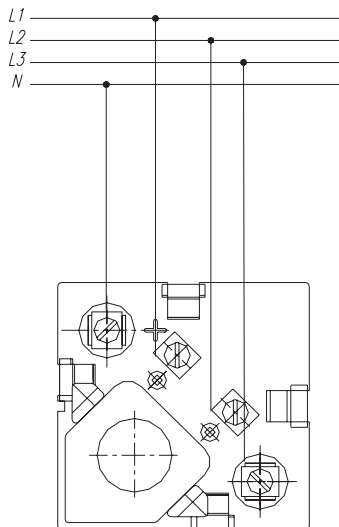
EP27



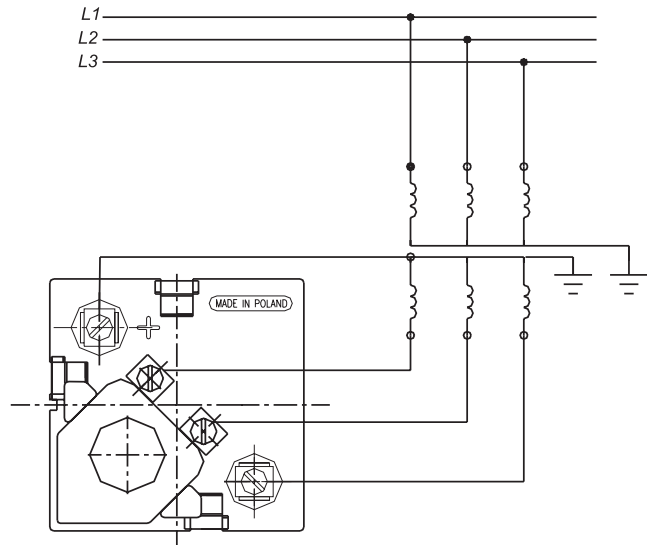
EP29

CONNECTION DIAGRAM OF EXTERNAL CIRCUITS

Connections of EP27 voltmeters:

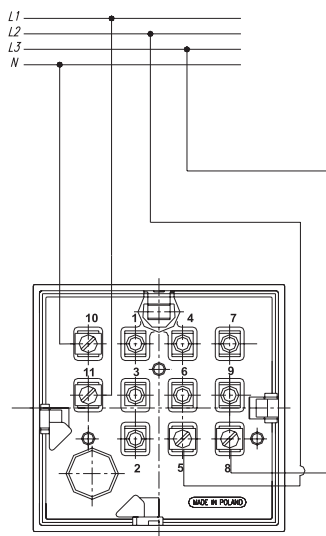


a) Direct connection

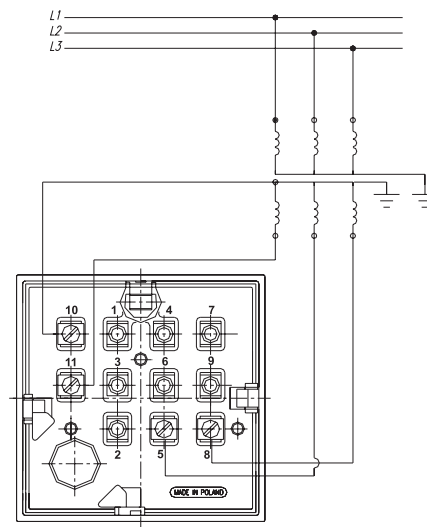


b) Connection through a voltage transformer

Connections of EP29 voltmeters:



a) Direct connection



b) Connection through a voltage transformer

CODING OF THE WORKING POSITION

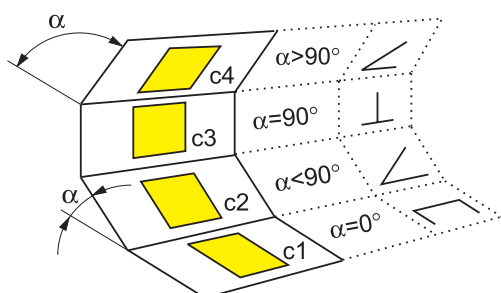


Table 1

Code	Working position
O	c3
A	c1
B	c2, $\alpha = 15^\circ$
C	c2, $\alpha = 30^\circ$
D	c2, $\alpha = 45^\circ$
E	c2, $\alpha = 60^\circ$
F	c2, $\alpha = 75^\circ$
H	c4, $\alpha = 105^\circ$
I	c4, $\alpha = 120^\circ$

ORDERING PROCEDURE

MOVING-IRON PANEL VOLTMETERS EP27 and EP29 TYPES	X	X	XX	X
Voltage range:				
500 V	1			
150 V (with a measuring transformer)*	2			
133.3 V (with a measuring transformer)**	3			
X/110 V (with a measuring transformer)	4			
X/100 V (with a measuring transformer)	5			
Working position: (see table 1)		X		
Version:				
Standard			00	
Custom-built ¹⁾				XX
Acceptance test:				
Without additional requirements	8			
With a quality inspection certificate	7			
Other requirements ²⁾				X

¹⁾ The number code is established by the producer.

²⁾ Additional requirements must be agreed with the producer.

* 150 V - Widened input signal range, adapted to measuring transformers, e.g. 10,000/100 V when the 15 kV range printed on the scale

** 133.3 V - Widened input signal range, adapted to measuring transformers, e.g. 600/100 V when the 8 kV range printed on the scale.

When ordering, one must specify: the name and type of the voltmeter, the voltage measuring range, the working position according to the table 1, the kind of the version and the acceptance test mode.

Ordering example: code EP29-5-D-00-7 that means: an EP29 voltmeter to co-operate with a X/100 V measuring voltage transformer, working position: $\alpha=45^\circ$ from the horizontal position, standard version and delivered with a quality inspection certificate.