



Installation set MEg40+/S3



PURPOSE AND DESCRIPTION

The installation set MEg40+/S3 is designed for installation of the instrument Universal energy meter MEg40+/S3 into LV switchgears and live working technologies. The instrument MEg40+/S3 is installed on a DIN rail TC35 together with a three-pole disconnect switch of measured voltages and a terminal connecting for the neutral conductor. This set is used for installations into LV boxes without any square hole prepared to install the instrument and they are without installed fixed instrument current transformers and have live collectors whose width is more than 70 mm or they are in a non-standard version.

The set of Universal energy meter MEg40+/S3 sensors is available with the nominal values of current 250 A, 500 A, 1000 A, 2000 A. The current measurement overloading is up to 1.5-fold of the nominal current of the set. According to the nominal current range, the version MEg40+/S3 with AMOSm sensors can be used for the following power transformers:

- 250 A, power transformer with power from 100 kW to 200 kW,
- 500 A, power transformer with power from 200 kW to 400 kW,
- 1000 A, power transformer with power from 400 kW to 800 kW,
- 2000 A, power transformer with power from 800 kW to 1 500 kW.

The installation set MEg40+/S3 speeds up the installation process and allows possible subsequent handling in DTS voltage measurement circuits without limiting its operation.

TECHNICAL PARAMETERS

Dimensions:	240 × 122 × 106 mm
Weight:	1.20 kg
Nominal measured voltage U_{nom} :	230 V
Measuring voltage range:	0 V – 290 V
Measurement category:	IV, ČSN EN61010-1, up to 300 V
Nominal values of measured currents I_{nom} :	250 A / 500 A / 1000 A / 2000 A
Measuring current range:	0 – $1,2 I_{nom}$
Maximum value of measured currents:	$1.5 \times I_{nom}$
Supply voltage:	230 V + 10 %, -30 %, 5 VA, 50 Hz
Pollution degree:	2
Operating temperature:	-25 °C to +55 °C
Ingress protection rating:	IP00
Relative humidity:	20 % – 90 % at 40 °C
Connecting cross-section of VLC 103P disconnect switch:	Cu / 0.5 – 25 mm ²
Cylindrical fuses in VLC 103P disconnect switch:	PV 10 2A gG
Connecting cross-section of RSA 6 terminal:	Cu / 0.75 – 8 mm ²
Max. number of wires connected into RSA 6:	3 × (0.75 – 1.5) mm ²
RSA 6 socket recommended length:	10 mm

AMOSm flexible sensor parameters

Loop length:	30 cm
Loop diameter:	8 mm
Diameter of free part of closure:	10 mm
Minimum radius of loop curvature:	20 mm
Temperature:	from -20 °C to +90 °C for measuring loop
Relative humidity:	0 % – 90 % at 40 °C
Nominal voltage of measured current wire without its own insulation:	230 V
Ingress protection rating:	IP42
Measurement category for sensor loop:	IV
Electrical appliance protection class:	II

Manufacturer

MEGA – Měřící Energetické Aparáty, a.s., 664 31 Česká 390, Czech Republic
tel. +420 545 214 988, e-mail: mega@e-mega.cz, www.e-mega.cz

Edition: 03/2012