



# MOVING-IRON VOLTMETER WITH CHANGE OVER SWITCH



## 72VS, 72sVS, 96VS, 96sVS, 144sVS, 72VS-1, 72sVS-1, 96VS-1, 96sVS-1, 144sVS-1

For measuring AC voltages in 4 or 3-wire networks by using a change over switch mounted on the front side.

### Technical data

**Movement:** Moving-iron with spring-type oil filled bearings, practically vibration-free oil damping.

**Class of accuracy:**  $\pm 1.5\%$

**Permanent overload:** 1.2 - fold voltage.

**Scale length:** -type 72 VS, 72VS-1: 50 mm  
-type 96 VS, 96VS-1: 75 mm  
-type 144 sVS, 144sVS: 120 mm

**Frequency range:** 15 ... 50 ... 100 Hz.

**Instrument case:** non-flammable plastic acc. to UL 94-V1, or steel-plate. (see table)

**Weight:** -max. 0.4 kg for types 72 VS, 72VS-1  
-max. 0.5 kg for types 96 VS, 96VS-1  
-max. 0.8 kg for types 144 sVS, 144sVS-1

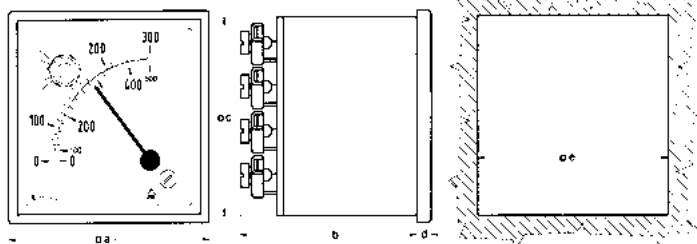
**Fixing elements:** with two spring-type fastening clips (DIN 43835 A) or, plastic clips



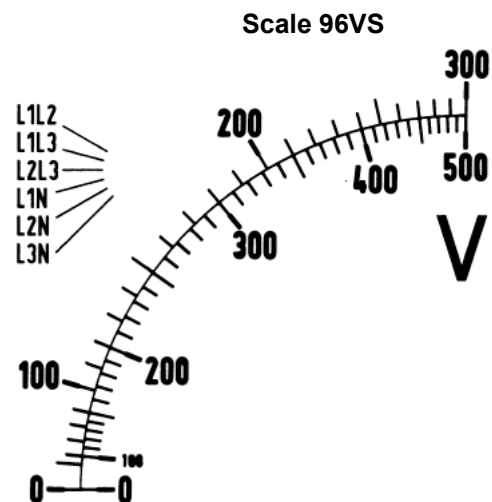
Positions: L1-L2, L2-L3, L1-L3, L1-N, L2-N, L3-N						Positions: L1-L2, L2-L3, L1-L3, OFF					
Measuring range	Frame dimensions (a)					Measuring range	Frame dimensions (a)				
	Plastic case ■		Metal case				Plastic case ■		Metal case		
	72x72 mm	96x96 mm	72x72 mm	96x96 mm	144x144mm		72x72 mm	96x96 mm	72x72 mm	96x96 mm	144x144mm
	72 VS Cat. No. 2276-13-	96 VS Cat. No. 2277-13-	72sVS Cat. No. 1975-13-	96sVS Cat. No. 1784-13-	144 sVS Cat. No. 2034-13-		72 VS-1 Cat. No. 2278-13-	96 VS-1 Cat. No. 2279-13-	72sVS-1 Cat. No. 1975-13-	96sVS-1 Cat. No. 1784-13-	144 sVS-1 Cat. No. 2034-13-
60 / 100 V	001	001	007	007	001	100 V	001	001	507	507	007
80 / 150 V	002	002	005	005	002	150 V	002	002	505	505	008
100 / 200 V	003	003	005	005	003	200 V	003	003	505	505	009
150 / 250 V	004	004	004	004	004	250 V	004	004	504	504	010
250 / 400 V	005	005	003	003	005	400 V	005	005	503	503	011
■ 300 / 500V	005	006	002	002	006	500 V	005	005	502	502	012
360 / 600 V	007	007	001	001	013	600V	007	007	501	501	014

■ standard

**Note:** On request orders for types different from table are accepted



Type	Dimensions (in mm.)				
	a	b	c	d	e
72 VS, VS-1	72	54	66	5	68 <sup>+0.7</sup>
72sVS, sVS-1	72	54	66	5	68 <sup>+0.7</sup>
96 VS, VS-1	96	54	90	5	92 <sup>+0.8</sup>
96 sVS, sVS-1	96	54	90	5	92 <sup>+0.8</sup>
144 sVS, sVS-1	144	76	135	7	138 <sup>+1.0</sup>



### Order specification:

-Moving-iron voltmeter with change over switch.  
-Frame dimensions: **96x96 mm**  
-Voltage range: **300 / 500 V**  
Option: 1 scale **500V**

### Ordering data:

-Moving-iron voltmeter with change over switch.  
-Type: **96 VS**  
-Cat. No. **2277-13-006**