

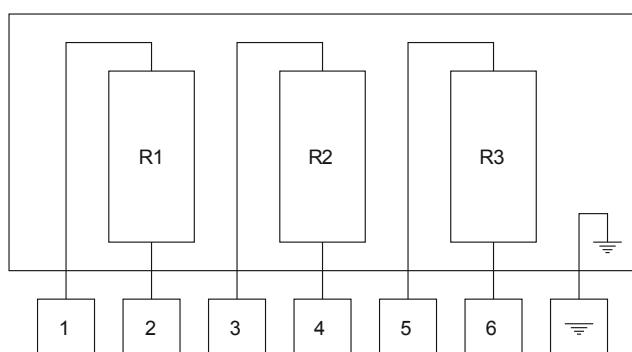
GENERAL CHARACTERISTICS

Modern energy meters characterises very low burden of measuring inputs. On the other hand current or voltage transformer works properly if its secondary winding burden lays between 25 - 100% of its rated output. In case of old type transformers the situation of not enough burden can occur. Load resistors RDZ-3 are installed in order to add extra load of secondary winding of current or voltage transformer. The RDZ-3 resistors can be also applied in order to ferro-resonance phenomena elimination. RDZ-3 resistors are able to work in outdoor metering cabinets of ingress protection min. IP 40.

MAIN FEATURES

Particular resistive components of RDZ-3 resistors set are made in thick-film technology which allows to reduce inductance. Resistors are very reliable, they withstand high temperature conditions and pulse loads. Load resistors set contains three resistors (for three phase network) enclosed in special purpose casing with lock for industrial purposes and possibility of sealing. The resistors are connected to measuring circuit with terminal block type **UK5 TWIN** of Phoenix Contact. The terminal can be configured for Y or delta connection. The access to terminal block is possible by breaking the seal placed in the door lock.

Functional diagram:



TECHNICAL DATA

Resistance value	specified by the order
Power rating	3 x 50W
Tolerance	5%
Temperature coefficient	100ppm/°C
Insulation resistance	>100MΩ
Electric strenght	2,5kV (50Hz 1min)
Dimensions	195x140x132
Weight	3 kg
Operating temperature range	-40÷85°C
Storage temperature	-10÷40°C

Some examples of resistors values:

Burden added by resistors set dedicated to measuring circuit of nominal voltage $3 \times 100/\sqrt{3}$		
Resistance value	Burden added by resistors	
	Y connection	Delta connection
3 x 5 kΩ	3 x 0,67 W	3 x 2,00 W
3 x 2 kΩ	3 x 1,68 W	3 x 5,00 W
3 x 1,2 kΩ	3 x 2,77 W	3 x 8,33 W
3 x 1 kΩ	3 x 3,36 W	3 x 10,0 W
3 x 670 Ω	3 x 5,00 W	3 x 14,9 W
3 x 400 Ω	3 x 8,40 W	3 x 25,0 W
3 x 240 Ω	3 x 14,0 W	3 x 41,7 W
3 x 100 Ω	3 x 33,6 W	3 x 100 W