

# VARIABLE RESISTORS

## GENERAL DESCRIPTION



These variable resistors are indispensable aids, designed for varying DC and AC currents and voltages in a wide range of the electric industries, such as testing the electric circuits of motor vehicles, applications in the laboratory, education and others.

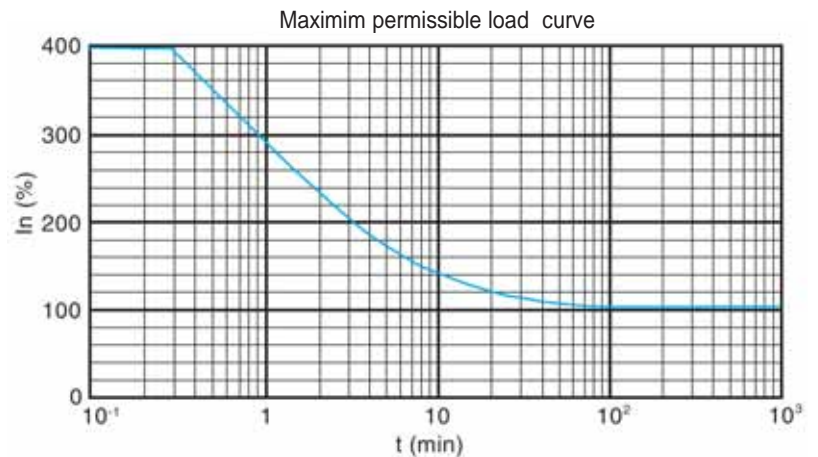
The units can be operated as rheostats or potentiometers.

The principle part of the various types of these variable wirewound resistors are their cores of a pyrostatic ceramic material wound with resistance wire from 1 ohm to 10kohm in compliance with the Renard series. Intermediate values can be provided by connecting the resistance coils of some of the types in parallel.

Non standard values and tolerances can be furnished on special request. Furthermore, bare coil bodies without coils (without casing) can be also supplied.

## TECHNICAL CHARACTERISTICS

- Precision class  $\pm 10\%$
- Insulation resistance:  $> 5M\Omega$
- Earthing resistance:  $< 0,1\Omega$
- Allowed voltage at terminals: max 800V  $\overline{=}$  / 750V rms
- Insulation voltage against casing:  $> 1,5$  kV
- Insulation: Class B
- Protection degree: IP20
- Standards: DIN 41480-SE6 / DIN 40050 / VDE 0110

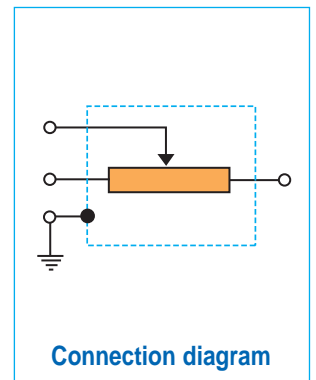
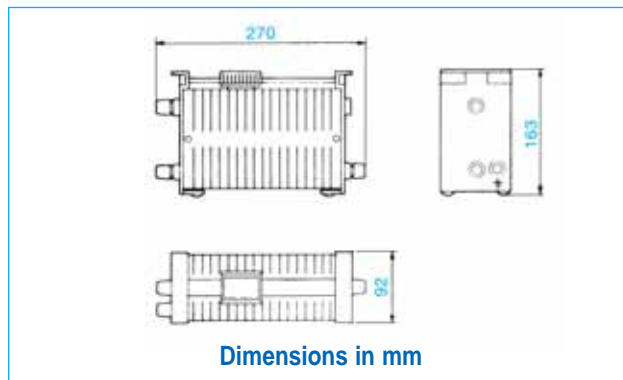


## SINGLE-PHASE

7PRN162

- Power 160W
- Weight: from 1,8 to 2,1 Kg depending on the resistive value

Resistive value ( $\Omega$ )	Max admissible load (A)	
	continuous	15 min
1	13	18
3,3	7	10
10	4	5,7
33	2,2	3,1
100	1,25	1,8
330	0,7	1,0
1000	0,4	0,57
3300	0,22	0,31

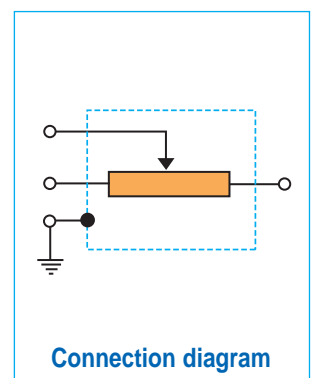
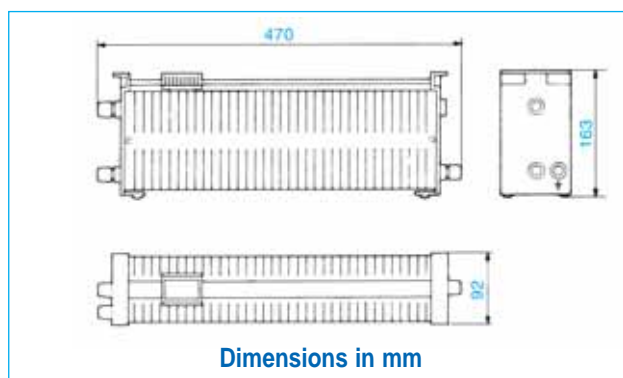


Dimensioni in mm

Schema di collegamento

- Power 320W
- Weight: from 3,3 to 3,9 Kg depending on the resistive value

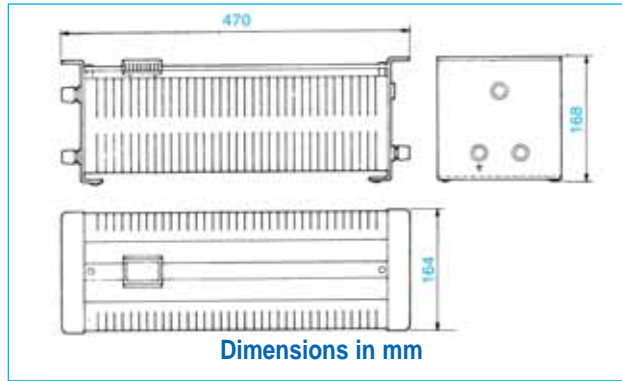
Resistive value ( $\Omega$ )	Max admissible load (A)	
	continuous	15 min
1	18	25
3,3	10	14
10	5,7	8
33	3,1	4,4
100	1,8	2,5
330	1,0	1,4
1000	0,57	0,8
3300	0,31	0,44
10000	0,18	0,25



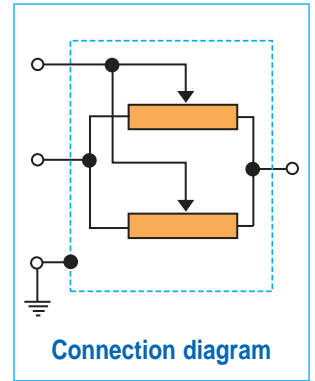
## 7PRN642

- Power 320W
- Weight: from 6,0 to 7,2 Kg depending on the resistive value

Resistive value (Ω)	Max admissible load (A)	
	continuous	15 min
0,5	36	50
1,6	20	28
5	11,4	16
16,5	6,2	8,7
50	3,6	5
165	2	2,8
500	1,1	1,6
1650	6,0	0,9
5000	0,36	0,5



Dimensions in mm

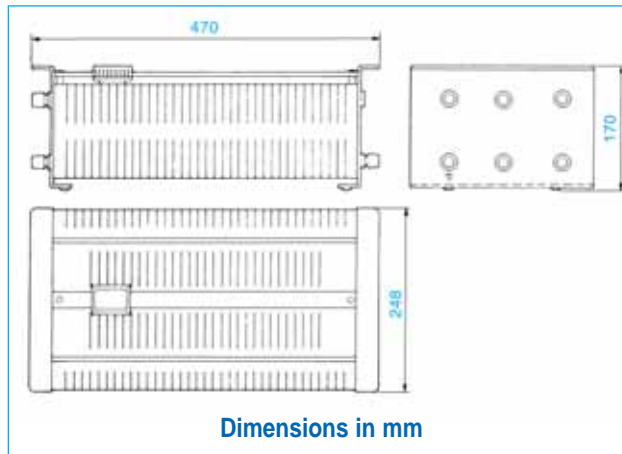


Connection diagram

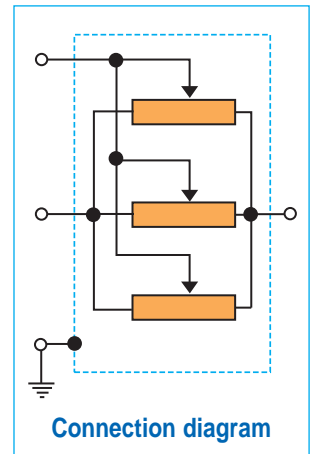
## 7PRN962

- Power 960W
- Weight: from 8,2 to 10 Kg depending on the resistive value

Resistive value (Ω)	Max admissible load (A)	
	continuous	15 min
0,33	54	76
1,1	30	42
3,33	17	24
11	9,3	13
33	5,4	7,6
110	3	4,2
333	1,7	2,4
1100	0,98	1,4
3330	0,54	0,61



Dimensions in mm



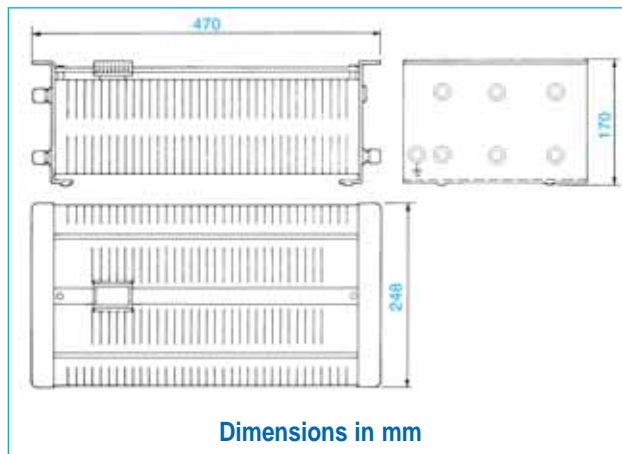
Connection diagram

# THREE-PHASE

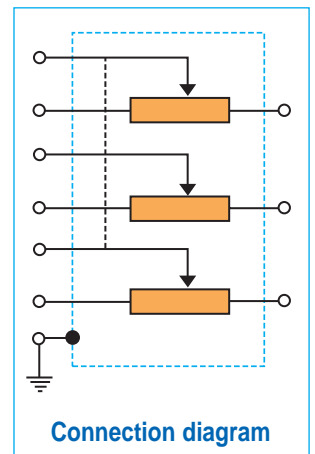
## 7PRN3/322

- Power 3x320W
- Weight: from 8,2 to 10 Kg depending on the resistive value

Resistive value (Ω)	Max admissible load (A)	
	continuous	15 min
3x1	3x18	3x25
3x3,3	3x10	3x14
3x10	3x5,7	3x8
3x33	3x3,1	3x4,4
3x100	3x1,8	3x2,5
3x330	3x1,0	3x1,4
3x1000	3x0,57	3x0,8
3x3300	3x0,31	3x0,44
3x10000	3x0,18	3x3,25



Dimensions in mm



Connection diagram