

## F.A.R.T. RESIN NEON TRANSFORMERS

The resin neon transformer worldwide renowned for quality and reliability



### MINIBLOCK

- Reduced size
- For indoor and outdoor use (enclosure needed - built in)
- IP 20 rated



### RESINBLOCK 2000

- Best quality standard
- With moulded sockets for spiral sheaths allocations
- For indoor and outdoor use (no enclosures needed - built out)
- IP 44 rated



### RESINBLOCK 2000 COMPACT

- Minimum effort and minimum weight
- Maximum output
- For indoor and outdoor use (no enclosures needed - built out)
- IP 44 rated



### RESINBLOCK MILLENNIUM COMPACT

- Factory equipped with protection switch and Power Factor capacitor
- Box with injection moulded fairleads
- New enlarged lid with Nylon/Teflon fixing screw in self-extinguish material
- For indoor and outdoor use (no enclosures needed - built out)
- IP 44 rated

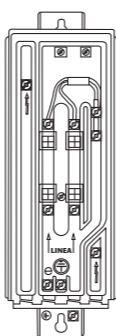
## THE EUROPEAN STANDARD



Resinblock 2000 Millennium Pe Type\*

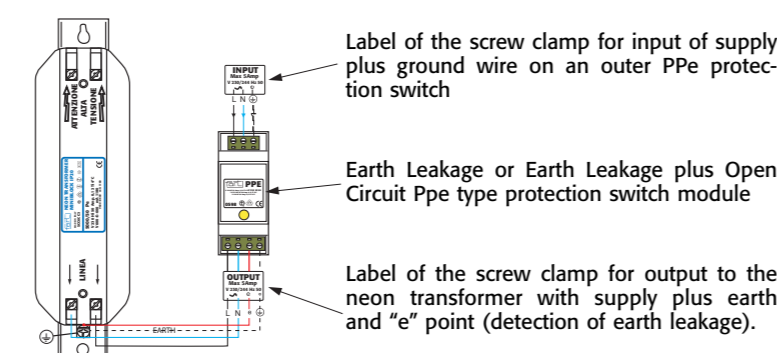


Resinblock 2000 Pe Type\*

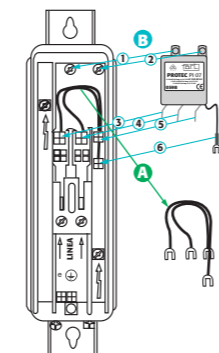


Resinblock Pe Type always with safety knife switches

### MOUNTING OF AN OUTER PROTECTION SWITCH PPE TYPE



### TO FIT PROPERLY A PROTECTION SWITCH UNIT INTO THE TRANSFORMER, ONE MUST CARE:



- 1 unscrew screws (n. 4 through 6) of the wire bridge A (lift do not remove).
- 2 remove the wire bridge
- 3 unscrew and remove the upper screws (n. 1 and 2)
- 4 set in place properly the protection switch B
- 5 screw tightly the two upper screws through their fixing holes
- 6 screw tightly the remaining four screws.

Note: loose or improper screwing of a signle screw can cause damages or malfunctioning of the protection switch

SUGGESTED CABLES LENGTH ACCORDING EUROPEAN STANDARD EN50143										
Rated Output Voltage to the Earth	1 kV (2 kV total output)		2 kV (4 kV total output)		3 kV (6 kV total output)		4 kV (8 kV total output)		5 kV (10 kV total output)	
	Ar Ne	Ne	Ar Ne	Ne	Ar Ne	Ne	Ar Ne	Ne	Ar Ne	Ne
Gas filling inside the tubes										
Cable type B,C,F,G,H (drafted metres between transformer and the tubes load)	40	20	30	15	20	10	15	7	10	5
Cable type K (drafted metres between transformer and the tubes load)	40	20	30	15	Must not be used at voltages greater than 2.5kV to earth					
Cable type A,D,E (drafted metres between transformer and the tubes load)	24	12	16	8	12	6	9	4	6	3

\* Extra Europe available up to 15kV

10KV Max total output.  
Earth leakage switch always required

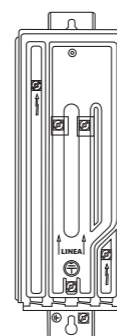
## THE INTERNATIONAL STANDARD



Resinblock CM Type without safety knife switches



CM Type with safety knife switches



CM without safety knife switches

15KV Max total output allowed.

### LOAD CHART FOR F.A.R.T. TRANSFORMERS 1,2 Isc – series 30 – 60 – 120 mA

With "electrical metres" we intend the linear meter length of the tubes increased by some 0,5 metre per each tube's section. Always remember to select the smaller transformer in case the load metreage falls in between two types.

This load chart is a simple guide line. Do check secondary current of the connected load with a milliammeter!

#### Electrical metres for tubes filled with 100% neon gas

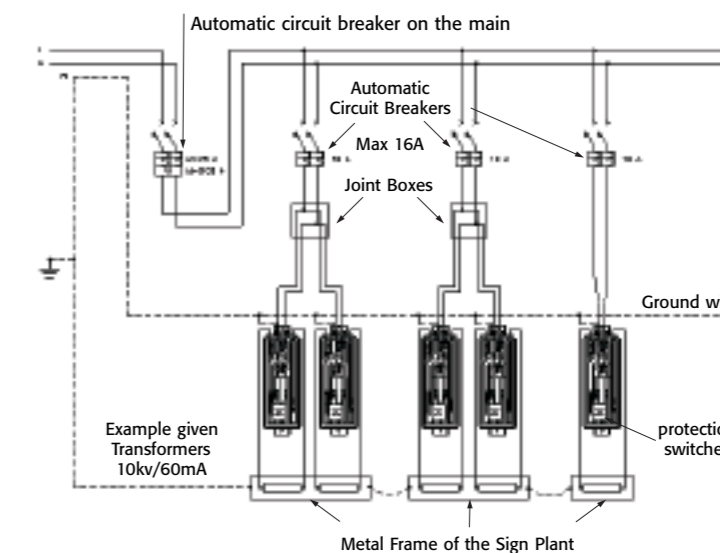
OUTPUT VOLTS	Ø=9mm.	Ø=10mm.	Ø=12mm.	Ø=15mm.	Ø=20mm.	Ø=25mm.
	press. 14mm.	press. 13mm.	press. 12mm.	press. 10mm.	press. 7mm.	press. 6mm.
1.000	0,50	0,60	0,80	1,00	1,20	2,00
2.000	1,00	1,25	1,50	2,10	2,50	4,20
3.000	1,60	1,90	2,35	2,90	4,10	6,30
4.000	2,20	2,50	3,20	4,00	5,80	8,20
5.000	2,90	3,25	4,10	5,00	7,30	10,40
6.000	3,60	4,00	4,90	6,00	8,84	12,55
7.500	4,60	5,20	6,40	8,00	11,10	15,50
9.000	5,50	6,40	8,00	10,00	13,72	18,50
10.000	6,20	7,20	8,80	11,00	15,20	20,49
12.000	7,25	8,44	10,73	13,21	18,07	24,75
15.000	9,20	10,97	13,45	16,59	22,55	30,85

#### Electrical metres for tubes filled with mixture argon/neon gas

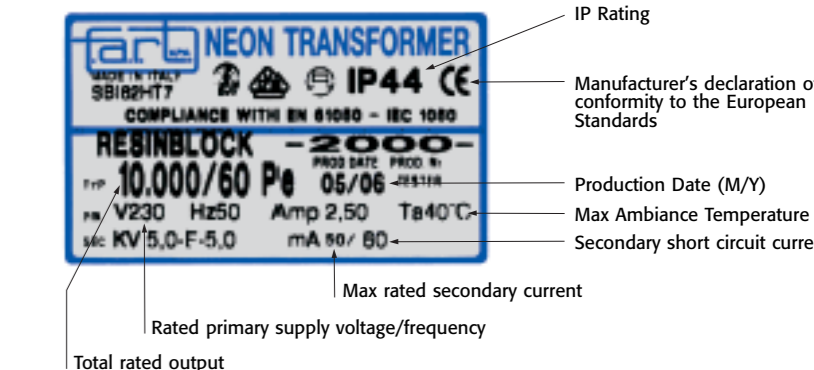
OUTPUT VOLTS	Ø=9mm.	Ø=10mm.	Ø=12mm.	Ø=15mm.	Ø=20mm.	Ø=25mm.
	press. 14mm.	press. 12mm.	press. 10mm.	press. 8mm.	press. 6mm.	press. 5mm.
1.000	0,80	0,80	1,10	1,50	2,00	2,80
2.000	1,40	1,50	1,90	2,70	3,50	5,00
3.000	2,10	2,40	2,90	3,90	5,10	7,60
4.000	2,80	3,20	3,90	5,10	6,70	9,80
5.000	3,60	4,00	4,90	6,30	8,40	12,20
6.000	4,30	4,90	6,00	7,60	10,10	14,60
7.500	5,30	6,20	7,60	9,50	12,90	18,40
9.000	6,40	7,60	9,50	12,00	15,70	22,50
10.000	7,10	8,50	10,70	13,00	17,50	24,60
12.000	8,54	10,10	12,47	15,25	20,81	29,40
15.000	10,61	12,63	15,71	19,09	25,71	36,41

## USEFUL INFORMATION

### How to set a safe sign plant



### How to read a transformer's label



### The needed measuring tools

#### QSVA260

Plastic case with:

- voltmeter (0-300 Volts)
- double scale milliamperemeter (0-70/0-210 mA).



#### QSVZ1003

Digital Multifunction clampmeter:

- amperemeter (4A>60 A)
- milliamperemeter (40mA>400mA)
- voltmeter (<400 V) to check with test leads supplied with the case.

