

# LOW VOLTAGE POWER FACTOR CORRECTION CAPACITORS

## TYPE : RF-T

- ▶ Pressure sensitive interrupter safety device.
- ▶ 440, 525VAC.
- ▶ 5 - 30kvar.

...SAVE SPACE  
SAVE MONEY...



### APPLIED STANDARD

The capacitors are designed, manufactured and tested to meet the requirements of IEC Publication No. 831 - 1 1996, 831 - 2 1995 and JIS C 4901 2000

### OPERATING CONDITIONS

- |                          |   |
|--------------------------|---|
| 1. Installation :        | Indoor                                    |
| 2. Ambient temperature : | -25 °C to +45 °C                          |
| 3. Altitude :            | Not exceeding 2000 meters above sea level |

### TYPE AND RATINGS

- |                           |                                |
|---------------------------|--------------------------------|
| 1. Type :                 | RF - T                         |
| 2. Rated voltage :        | see the tables shown on page 4 |
| 3. Rated output in kvar : | see the tables shown on page 4 |
| 4. Rated frequency :      | 50 Hz                          |
| 5. Phase and connection : | Three (3) phase and delta      |



## DESIGN AND CONSTRUCTION

1. Type RF-T capacitors are manufactured with specially processed metallized polypropylene film impregnated with wax, within a robust steel casing and hermetically sealed.
2. The capacitors are normally designed to suit for mounting in vertical position with protective cover terminals on top.
3. The capacitor container is coated with non-corrosive poly-urethane resin enamel in Munsell color notation 5Y7/1 for extended maintenance free service life.

## SAFETY FEATURES

1. Discharge device : The capacitors are provided with an internal discharge resistor which will reduce the residual voltage from the peak value to 75 volts or less within a maximum time of 3 minutes after they are disconnected from the source of supply.
2. Protective : The capacitors are also provided with a pressure sensitive interrupter which will, in the event of an element failure, sense the pressure built-up within the capacitor, disconnecting the capacitor elements from the circuit before case rupture.

## ELECTRICAL CHARACTERISTICS

- Sealing test : free from leaks at 70°C for more than 2 hours.
- Dielectric withstand test : terminals to terminals : 2.15 times x rated voltage < 2 seconds.  
terminals to container : 3,000 volts rms for 10 seconds.
- Capacitance (Output) : within +15% and -5%
- Dielectric loss : Shall be 0.2 watt/Kvar (discharge resistors included).
- Maximum permissible overloads / current : not exceeding 1.3 times of the rated current.
- Maximum permissible overloads / voltage :

### MAXIMUM PERMISSIBLE VOLTAGES vs DURATION

Voltage factor (x rated voltage)	Maximum duration
1.10	8 hours max. in every 24 hours
1.15	30 minutes max. in every 24 hours
1.20	5 minutes max. x 2 times max. in a month
1.30	1 minute max. x 2 times in a month

## WARRANTY

The Company warrants these capacitors against defects in materials and workmanship for one (1) full year from date of installation.

Exception for capacitors on networks that are damaged by harmonic, overvoltage, overcurrent and over ambient temperature refer to IEC No. 831-1 1996, JIS C 4901 2000.

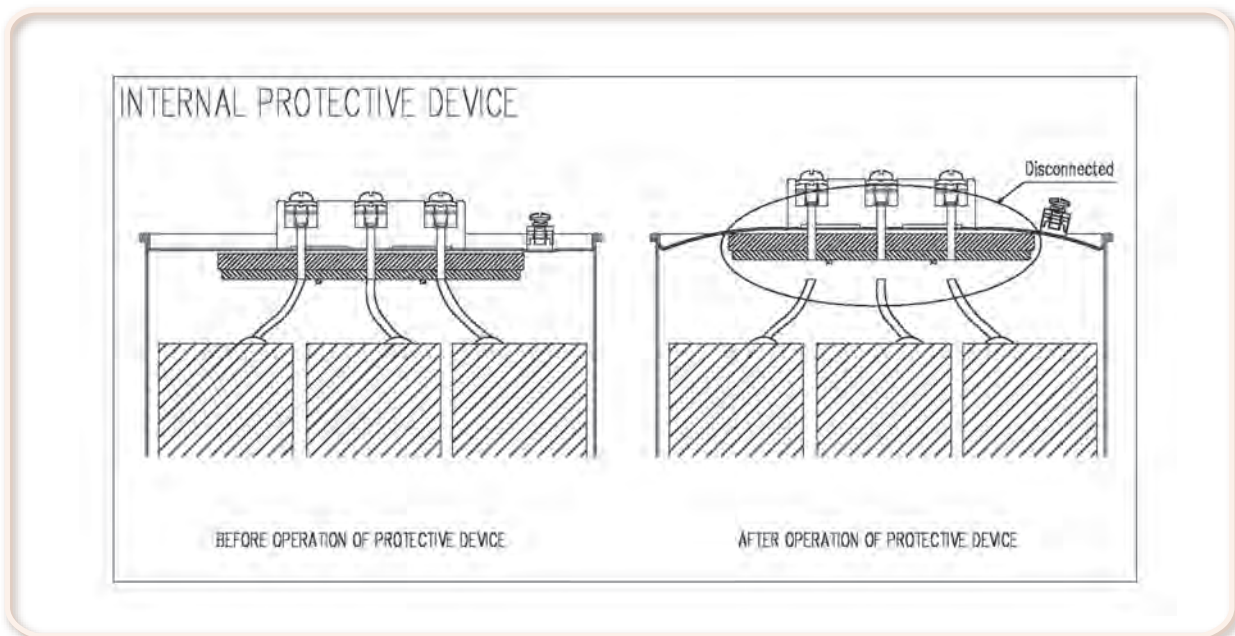
## NAMEPLATE MARKING

Each capacitor is provided with nameplate showing the following information.

- |                            |   |
|----------------------------|---|
| a. Name of manufacturer    | g. Rated current                            |
| b. Type                    | h. Connection                               |
| c. Capacitor rated voltage | i. Weight                                   |
| d. Rated output in kvar    | j. Internal discharge device fitted or not  |
| e. Rated frequency         | k. Internal protective device fitted or not |
| f. Number of phase         | l. Date of manufacture or serial number     |

## INTERNAL PROTECTIVE DEVICE

Should continuous dielectric breakdown occur, the cover will bulge upward towards the terminal mounted on the cover because of the internal pressure build-up resulting from the frequent self-healing. The sensitive pressure interrupter within the capacitor winding and terminal will break disconnecting the capacitor from the electrical circuit.



## NOTE

We reserve the right to alter or modify the information contained herein at any time in the light of technical or other developments.

We do not accept any responsibility for any misuse of the product and cannot be held liable for indirect or consequential damages.

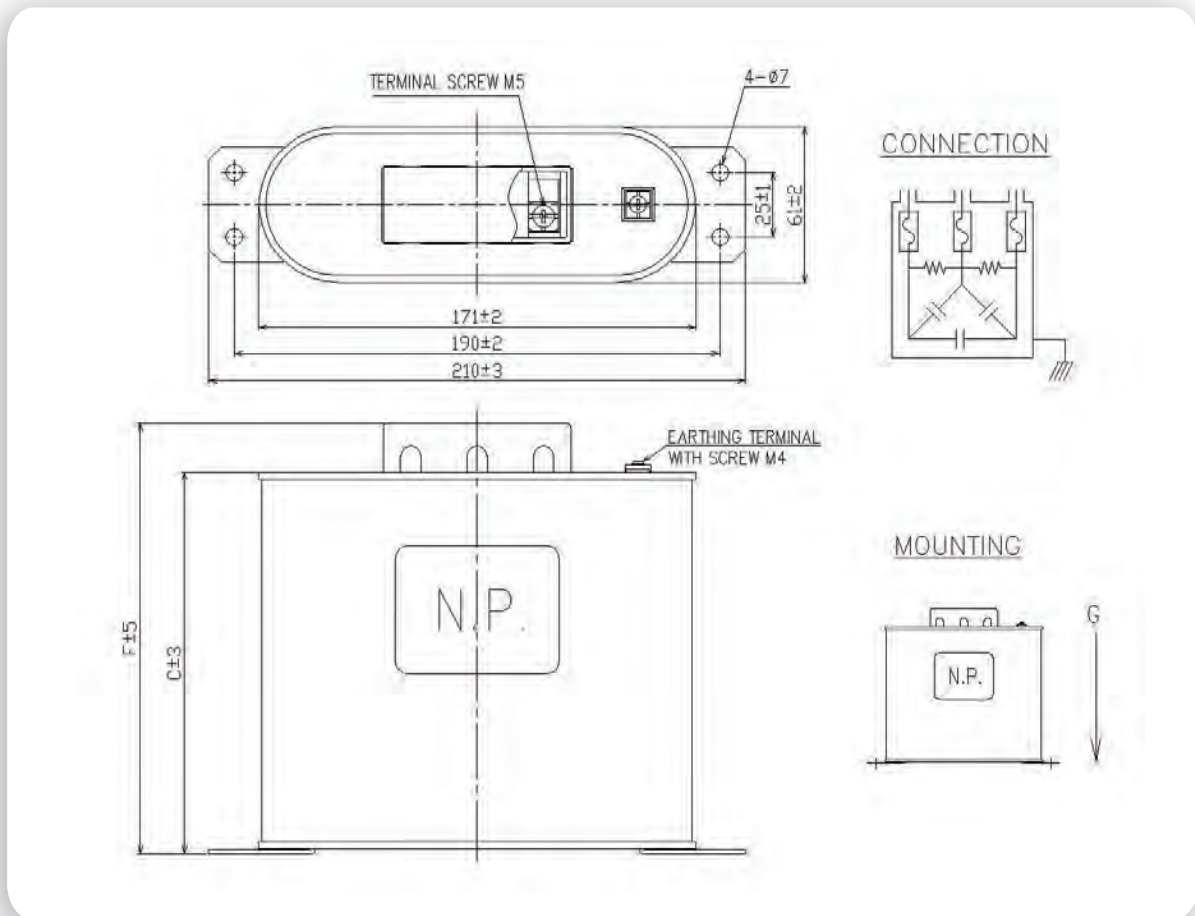


# SHIZUKI

...CAPACITORS LEADING COMPANY...

## LOW VOLTAGE POWER FACTOR CORRECTION CAPACITORS

### TYPE : RF-T



#### RATING & DIMENSIONS (mm.)

NO.	CODE	RATED			DIMENSION (mm.)		GROSS MASS
		VOLTAGE	CAP.	CURRENT	C	F	
1	RFT44050C1EM	440 V	5 kvar	6.6A	150	170	1.4kg
2	RFT44075C1EM		7.5 kvar	9.8A	150	170	1.4kg
3	RFT44010D1EM		10 kvar	13.1A	150	170	1.4kg
4	RFT44013D1EM		12.5 kvar	16.4A	210	230	2.0kg
5	RFT44015D1EM		15 kvar	19.7A	210	230	2.0kg
6	RFT44018D1EM		17.5 kvar	23.0A	250	270	2.4kg
7	RFT44020D1EM		20 kvar	26.2A	250	270	2.4kg
8	RFT44025D1EM		25 kvar	32.8A	250	270	2.4kg

NO.	CODE	RATED			DIMENSION (mm.)		GROSS MASS
		VOLTAGE	CAP.	CURRENT	C	F	
1	RFT52550C1EM	525 V	5 kvar	5.5A	150	170	1.4kg
2	RFT52575C1EM		7.5 kvar	8.2A	150	170	1.4kg
3	RFT52510D1EM		10 kvar	11.0A	150	170	1.4kg
4	RFT52513D1EM		12.5 kvar	13.8A	210	230	2.0kg
5	RFT52515D1EM		15 kvar	16.5A	210	230	2.0kg
6	RFT52518D1EM		17.5 kvar	19.2A	210	230	2.0kg
7	RFT52520D1EM		20 kvar	22.0A	250	270	2.4kg
8	RFT52525D1EM		25 kvar	27.5A	250	270	2.4kg
9	RFT52530D1EM		30 kvar	33.0A	250	270	2.4kg