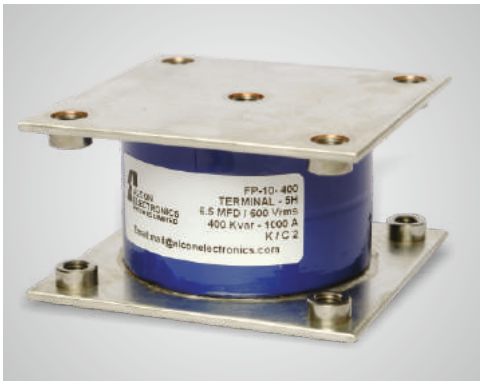
# FP-10-400

## Highlights

- Conduction cooled
- Polypropylene dielectric
- Self-healing
- Operating frequency 100 KHz
- Maximum operating core temperature 85°C
- Capacitance tolerance ±10%
- Flame retardant UL94 - V0, ROHS compliant

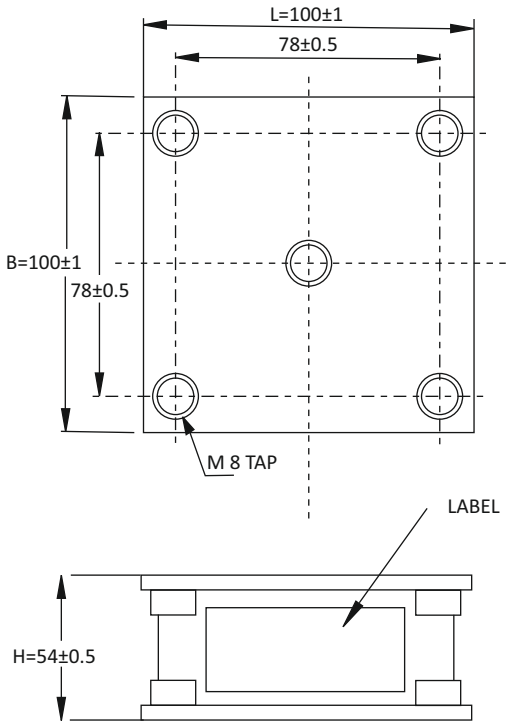


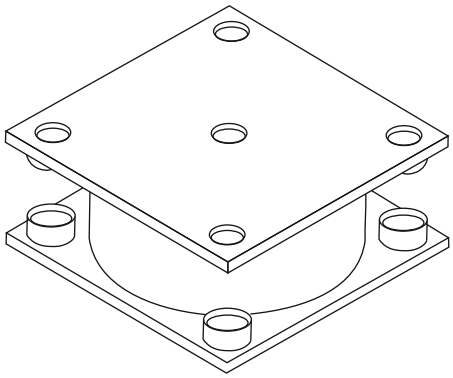

## Standard Capacitor Values

| Rated Voltage Vrms | Nominal capacitance MFD at 1KHz | Max current Irms | Max power Kvar | Frequency KHz | ESR mΩ | Dimensions mm | | | Case Code | Terminal Style | Ordering Code |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | B | H | L | | | |
| 600 | 6.50 | 1000 | 400 | 27-62 | 1.2 | 100 | 54 | 100 | G1 | 5H | SP06U500600A80G1005HK01 |
| | 8.50 | 1000 | 400 | 20-47 | 1.0 | 100 | 54 | 100 | G1 | 5H | SP08U500600A80G1005HK01 |
| | 10.00 | 1000 | 400 | 18-40 | 0.8 | 100 | 54 | 100 | G1 | 5H | SP000100600A80G1005HK01 |
| 500 | 20.00 | 1000 | 400 | 13-15 | 0.6 | 100 | 54 | 100 | G1 | 5H | SP000200500A80G1005HK01 |
| 400 | 40.00 | 1000 | 400 | 10 | 0.4 | 100 | 54 | 100 | G1 | 5H | SP000400400A80G1005HK01 |

## Capacitor Drawing and Terminal Style

**Terminal Style : 5H**



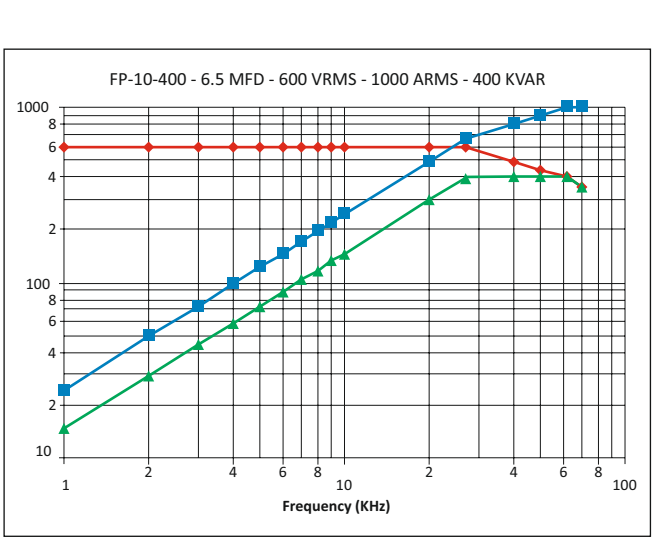



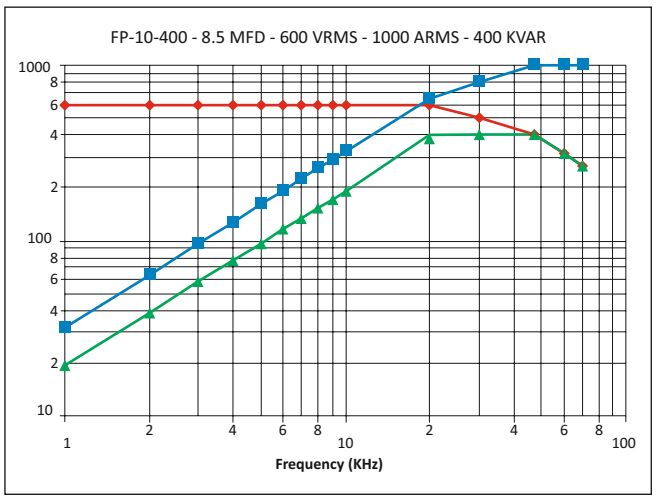
**Dimensions in mm**

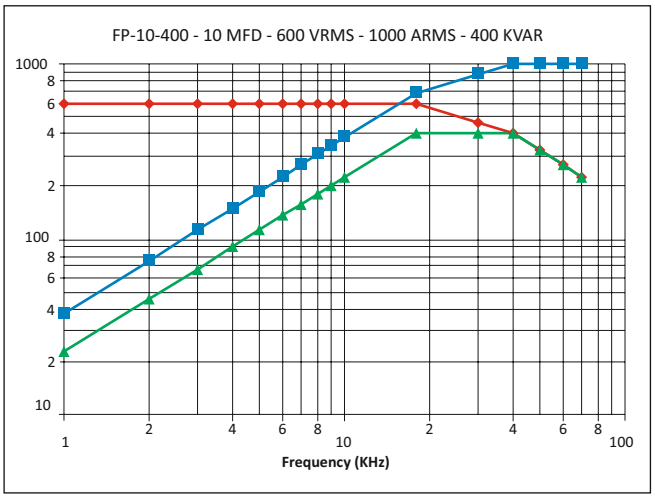
Tightening torque 20Nm max.

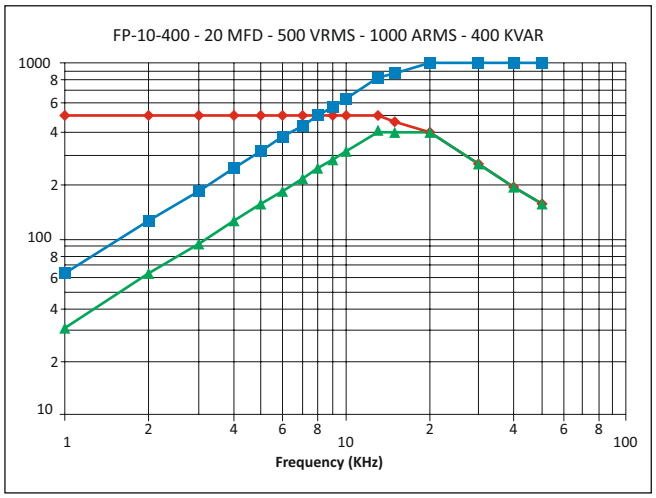
# FP-10-400

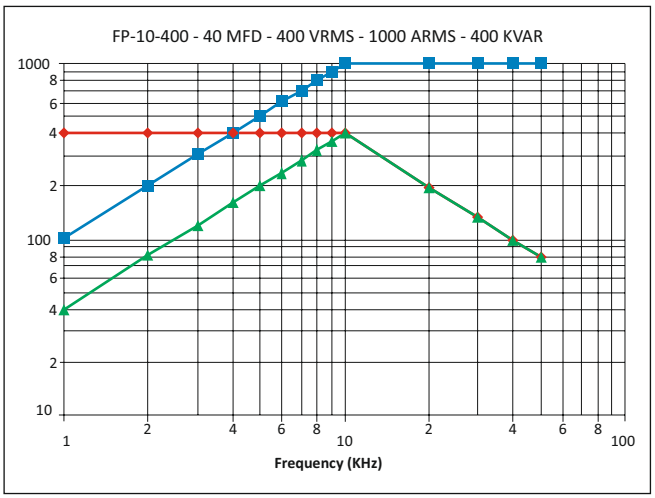
## Frequency Derating



# Part Number System

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1** | **2** | **3 to 7** | | | | | **8 to 11** | | | | **12 to 13** | | **14 to 16** | | | **17 to 20** | | | | **21** | **22 to 23** | |

**Standard / Non-standard**

S - Standard

N - Non-standard

**Series**

A - Aluminium Electrolytic Capacitors

I - IGBT Snubber Capacitors

D - DC-Link Capacitors

P - Power Film Capacitors

**Capacitance Rating**

example : 00U10 - 0.1 MFD
00U66 - 0.66 MFD
01U20 - 1.20 MFD
02U60 - 2.60 MFD
00001 - 1.00 MFD

**Voltage Rating**

example : 1000 - 1000 VDC/VRMS
0700 - 700 VDC/VRMS
0500 - 500 VDC/VRMS

**Grade**

example : AW - FP-5F-200
AS - FP-4-150
A1 - FP-9-300
BA - FP-36-500
BD - FP-31-1000

**Case code**

(Refer table)

**Terminal Style**

example : SM - 00SM
5H - 005H
AL - 00AL
STD - 0STD
WCL - 0WCL

**Tolerance**

M : ±20%
K : ±10%
J : ±5%

**Canias Code**

By Default - 01

# Cautions For Proper Use Of Film Capacitor

## SAFETY INSTRUCTION

- Do not exceed the upper category temperature (UCT).
- Do not apply any mechanical stress to the capacitor terminals.
- Avoid any compressive, tensile or flexural stress.
- Do not move the capacitor after it has been assembled
- Do not exceed the specified torque limits during assembly.
- Avoid external energy inputs, such as fire or electricity.
- Avoid overload of the capacitors.
- Consult us if application is with severe temperature and humidity condition.
- There are no serviceable or repairable parts inside the capacitor. Opening the capacitor or any attempts to open or repair the capacitor will void the warranty and liability of ALCON

## DISPOSAL

For disposal do either of the followings.

1. Incineration (at high temperature over 800°C) after piercing or crushing capacitor body.
2. Consignment to specialists of industrial waste. As per the compliance prescribed by the law.