FP-12-500H

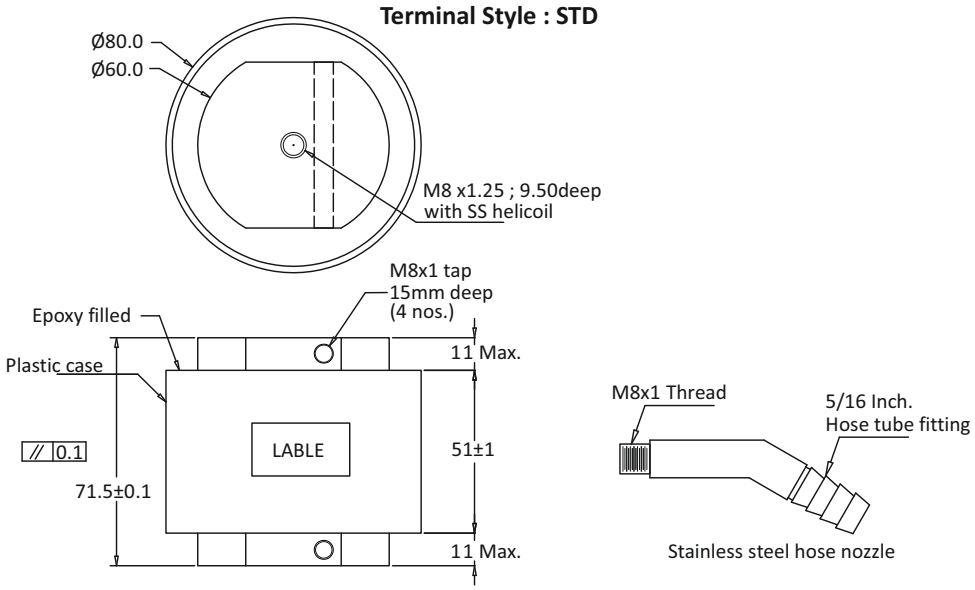
Highlights

- Water cooled
- Polypropylene dielectric
- Self-healing
- Operating frequency up to 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 Kvars	Frequency KHz	ESR mΩ	Dimensions mm			Case Code	Terminal Style	Ordering Code
						ØD	H	Ød			
1100	1.2	600	500	55-96	1.5	80	71.5	60	W1	STD	SP01U201100BK0W10STDK01
	1.4	600	500	46-83	1.2	80	71.5	60	W1	STD	SP01U401100BK0W10STDK01
750	3.0	800	500	47-68	1.1	80	71.5	60	W1	STD	SP000030750BK0W10STDK01
	3.3	800	500	43-62	1.0	80	71.5	60	W1	STD	SP003U30750BK0W10STDK01
900	4.0	700	500	25-39	0.9	102	71.5	60	W4	STD	SP000040900BK0W40STDK01
700	5.6	1000	500	29-57	0.9	80	71.5	60	W1	STD	SP005U60700BK0W10STDK01
	6.3	1000	500	26-51	0.8	80	71.5	60	W1	STD	SP006U30700BK0W10STDK01
	8.5	1000	500	19-38	0.7	88	71.5	60	W2	STD	SP008U50700BK0W20STDK01
	10	1000	500	16-32	0.6	95	71.5	60	W3	STD	SP000100700BK0W30STDK01
500	21	1000	500	15	0.4	80	71.5	60	W1	STD	SP000210500BK0W10STDK01
550	27	1000	500	10-12	0.3	102	71.5	60	W4	STD	SP000270550BK0W40STDK01
500	33	1000	500	10	0.3	102	71.5	60	W4	STD	SP000330500BK0W40STDK01
	37	1000	500	9	0.2	102	71.5	60	W4	STD	SP000370500BK0W40STDK01

Capacitor Drawing and Terminal Style

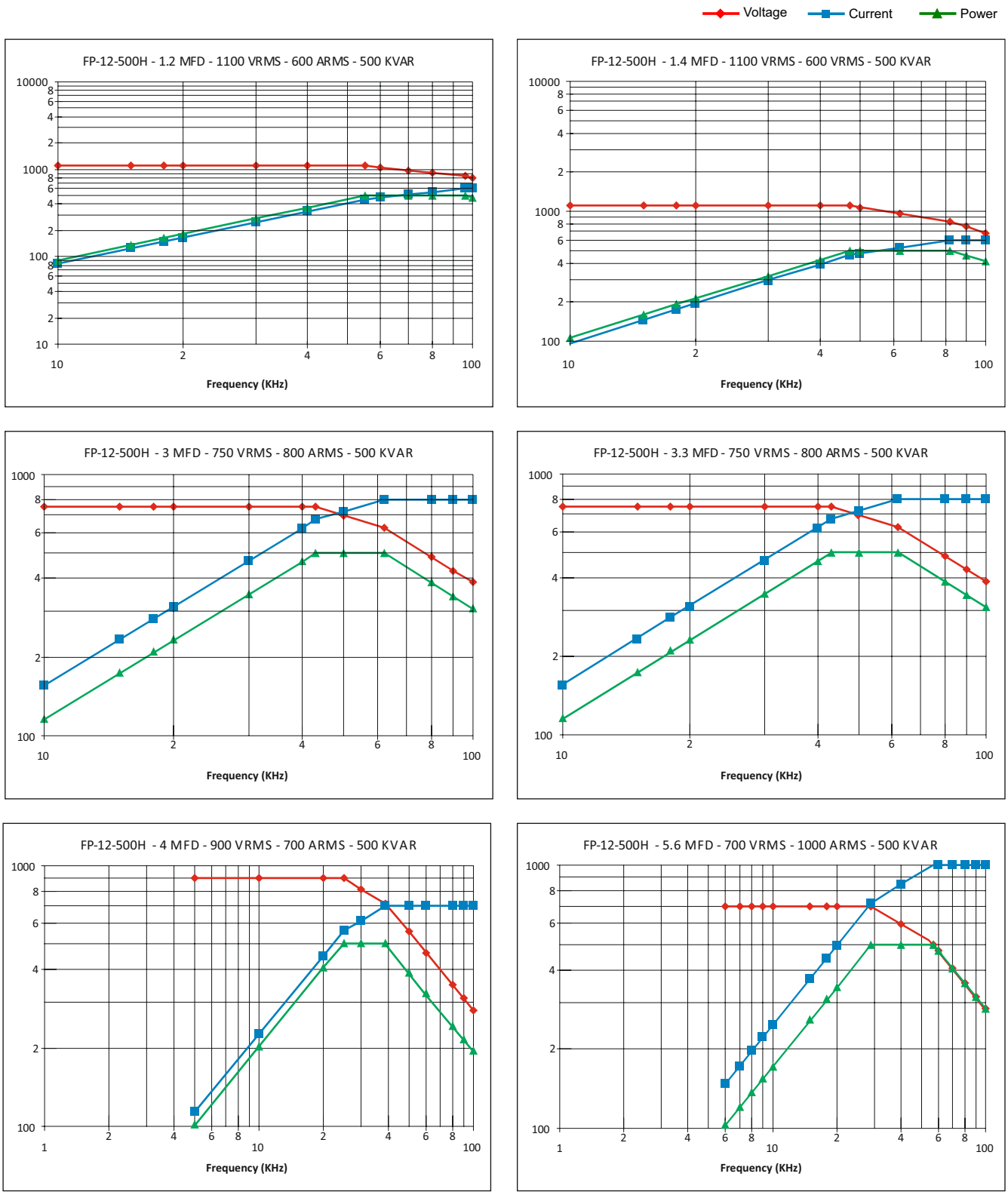


Dimensions in mm

Tightening torque 15Nm max.

FP-12-500H

Frequency Derating



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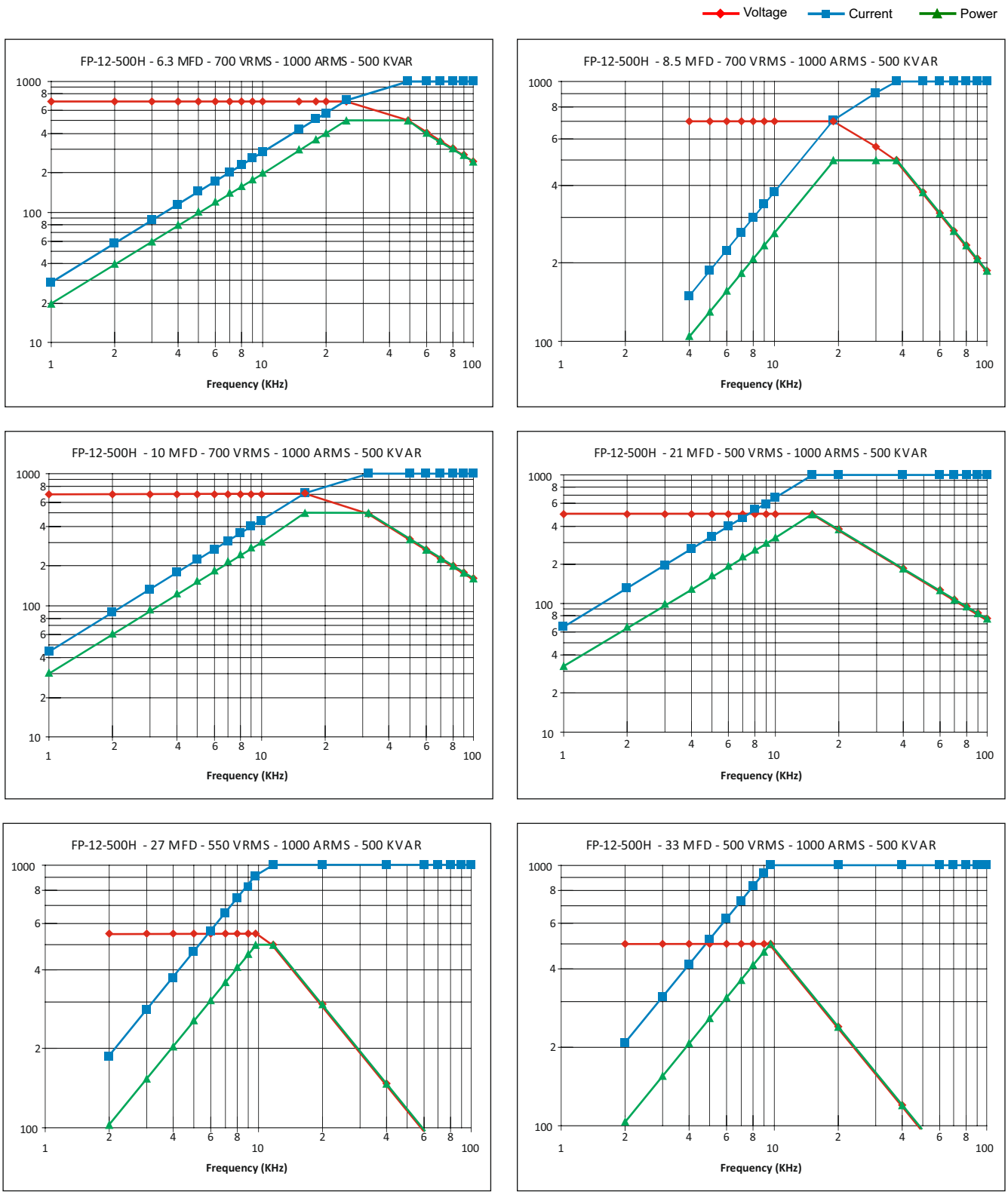
Frequency Derating



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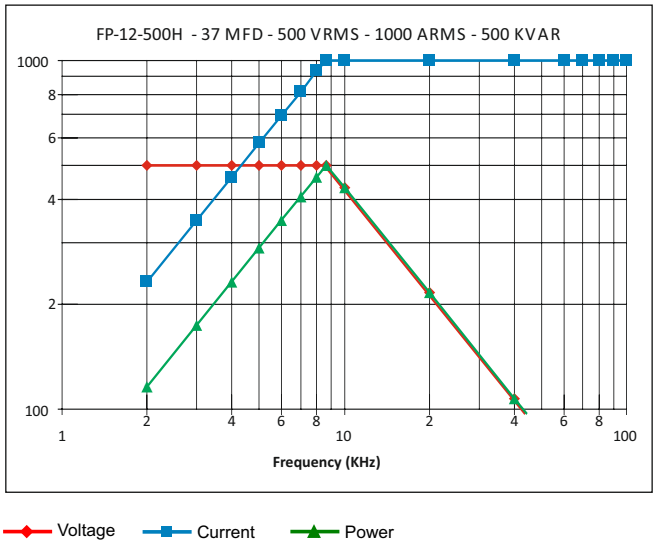
Frequency Derating



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.