

三、乾式串聯電抗器 Dry-type series reactor

串聯電抗器之優點說明

- 可抑制電容器啓閉之高頻突波之衝擊。
- 可抑制電容器切離電源瞬間，再點弧所引起的過電壓。
- 可改變系統阻抗特性，抑制諧波之放大及系統高諧波電壓和電流。
- 電容器組串聯電抗器可以減輕電路或抑制電容器突增之電流用。

Advantages of series reactors

- Suppress high frequency surge caused by capacitor power switching.
- Suppress over-voltage caused by repeated arc at instance of capacitor switch off.
- Change system impedance, suppress harmonic voltage and current.
- It can be connected to series capacitors to reduce or suppress sudden increased current.

規範

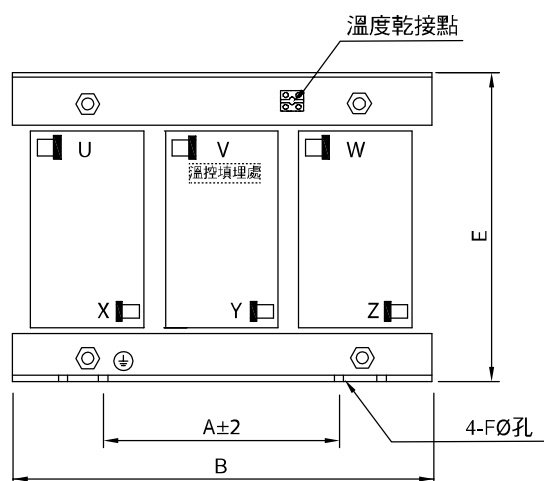
- 依據標準：依JEC-2210(2003)等之規定設計、製造及試驗。
- 使用地區為海拔1000公尺以下，周溫40°C以下，平均周溫在任何24小時內不得超過35°C之場所使用。
- 溫升：連續額定電流135%，線圈溫升不超過120°C。
- 絕緣耐壓：AC 4000V/ 1分鐘(min)。
- 最大容許電流：5th諧波電流含量35%以下，合成電流120%以下。
- 容許瞬間電流：額定電流之25倍2秒。
- 電抗器絕緣等級H級，保護等級IP00。

Specifications

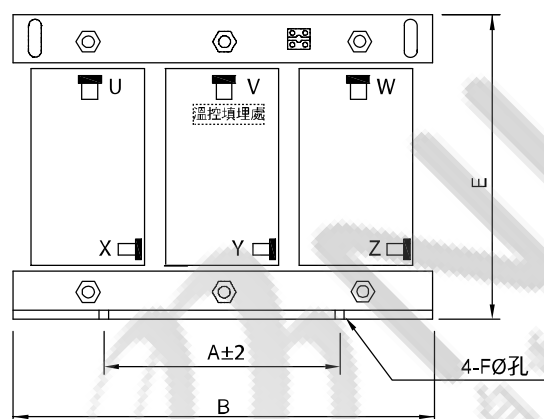
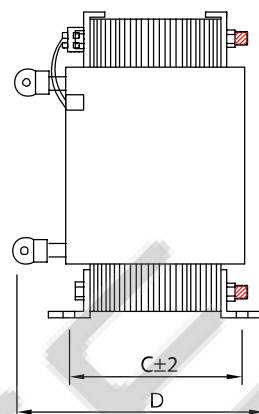
- Standard: JEC-2210(2003)
- Location: below 1000m, ambient temperature below 40°C, average temperature in 24 hours does not exceed 35°C.
- Temperature rise: continuous rated current at 135%, coil temperature below 120°C.
- Dielectric withstand voltage: AC 4000V/ 1min.
- Max. allowable current: 5th harmonic current below 35%, compound current below 120%.
- The max. excessive current for the short periods is 25 time of the rated current in 2 sec.
- Reactor insulation level: Class H. Protection level: IP00.



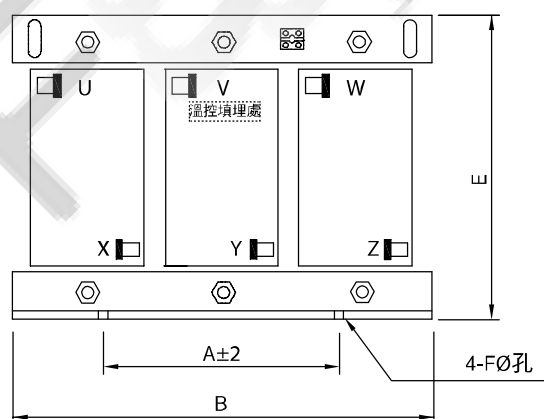
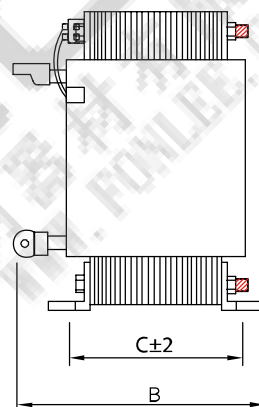
外形尺寸 Outline dimensions



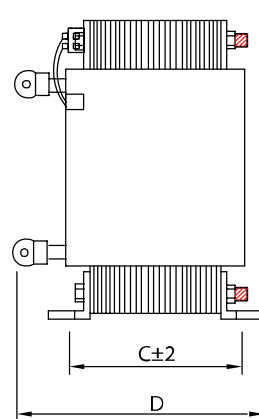
圖A Fig. A



圖B Fig. B



圖C Fig. C



公差為: $\pm 5\text{mm}$

3Ø, 60Hz, 260V (適用於系統電壓為220V)
3Ø, 60Hz, 260V (For 220V system voltage)

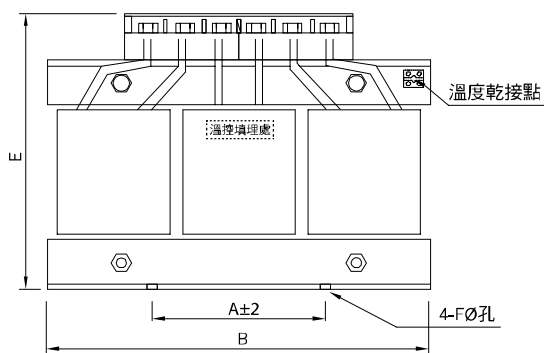
電容器 260VAC (kVAR)	電抗器		電流 Current (A)	容量		尺寸 Dimensions (mm)						圖別 Fig	概重 Weight (kg)
	型號 Type	額定電壓 (V)		(kVAR)	(mH)	A	B	C	D	E	F		
5	SR6-2660030TA	260	11.1	0.3	2.152	90	180	88	155	150	7-12L	A	8.5
10	SR6-2660060TA		22.2	0.6	1.076	90	180	88	155	150	7-12L	A	8.5
15	SR6-2660090TA		33.3	0.9	0.717	100	208	95	165	170	10-20L	B	10.8
20	SR6-2660120TA		44.4	1.2	0.538	120	226	100	175	180	10-20L	B	14.6
25	SR6-2660150TA		55.5	1.5	0.430	135	260	115	200	200	10-20L	C	22.6
30	SR6-2660180TA		66.6	1.8	0.359	135	260	115	200	200	10-20L	C	22.6
35	SR6-2660210TA		77.7	2.1	0.307	135	260	115	200	200	10-20L	C	23.4
40	SR6-2660240TA		88.8	2.4	0.269	135	260	115	200	200	10-20L	C	23.4
45	SR6-2660270TA		99.9	2.7	0.239	135	260	130	215	215	10-20L	C	28.5
50	SR6-2660300TA		111.0	3	0.215	135	260	130	215	215	10-20L	C	28.5
55	SR6-2660330TA		122.1	3.3	0.196	140	300	130	210	260	10-20L	C	34.1
60	SR6-2660360TA		133.2	3.6	0.179	140	300	130	210	260	10-20L	C	34.1
65	SR6-2660390TA		144.3	3.9	0.166	140	300	130	210	260	10-20L	C	35.4
70	SR6-2660420TA		155.4	4.2	0.154	140	300	130	210	260	10-20L	C	35.4
75	SR6-2660450TA		166.5	4.5	0.143	140	333	144	225	290	10-20L	C	50.1

3Ø, 60Hz, 280V (適用於系統電壓為220V)
3Ø, 60Hz, 280V (For 220V system voltage)

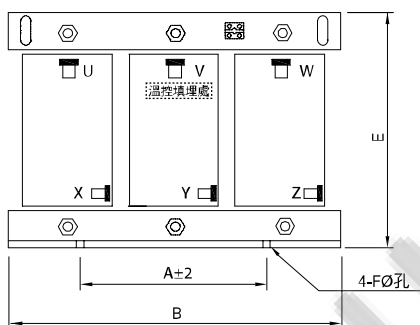
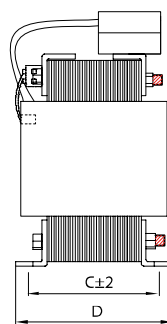
電容器 280VAC (kVAR)	電抗器		電流 Current (A)	容量		尺寸 Dimensions (mm)						圖別 Fig	概重 Weight (kg)
	型號 Type	額定電壓 (V)		(kVAR)	(mH)	A	B	C	D	E	F		
5	SR6-2860030TA	280	10.3	0.3	2.496	90	180	88	155	150	7-12L	A	8.5
10	SR6-2860060TA		20.6	0.6	1.248	90	180	88	155	150	7-12L	A	8.5
15	SR6-2860090TA		30.9	0.9	0.832	100	208	95	165	170	10-20L	B	10.8
20	SR6-2860120TA		41.2	1.2	0.624	120	226	100	175	180	10-20L	B	14.6
25	SR6-2860150TA		51.5	1.5	0.499	135	260	115	200	200	10-20L	C	22.6
30	SR6-2860180TA		61.9	1.8	0.416	135	260	115	200	200	10-20L	C	22.6
35	SR6-2860210TA		72.2	2.1	0.357	135	260	115	200	200	10-20L	C	23.4
40	SR6-2860240TA		82.5	2.4	0.312	135	260	115	200	200	10-20L	C	23.4
45	SR6-2860270TA		92.8	2.7	0.277	135	260	130	215	215	10-20L	C	28.5
50	SR6-2860300TA		103.1	3	0.250	135	260	130	215	215	10-20L	C	28.5
55	SR6-2860330TA		113.4	3.3	0.227	140	300	130	210	260	10-20L	C	34.1
60	SR6-2860360TA		123.7	3.6	0.208	140	300	130	210	260	10-20L	C	34.1
65	SR6-2860390TA		134.0	3.9	0.192	140	300	130	210	260	10-20L	C	35.4
70	SR6-2860420TA		144.3	4.2	0.178	140	300	130	210	260	10-20L	C	35.4
75	SR6-2860450TA		154.6	4.5	0.166	140	333	144	225	290	10-20L	C	50.1

- 其他電壓、容量之規格及串聯7%、8%、13%、14.8%、15%電抗器，歡迎訂購。
- Inquiries are welcomed (different voltages, capacitances of 7%, 8%, 13%, 14.8% & 15% series reactors.)

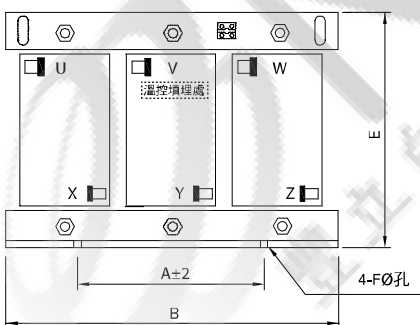
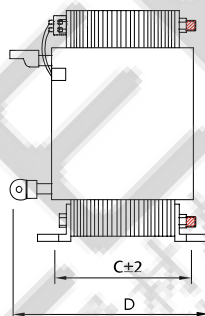
外形尺寸 Outline dimensions



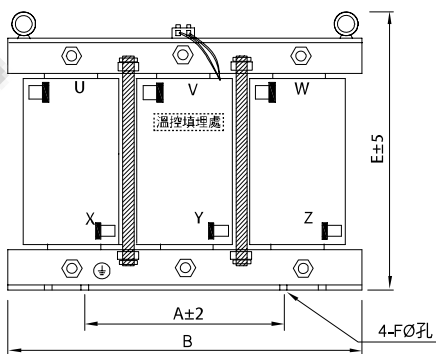
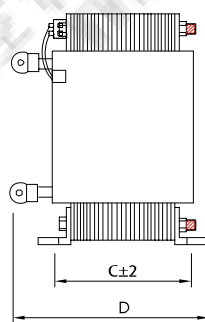
圖A Fig. A



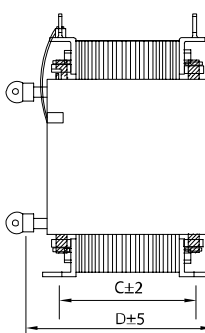
圖B Fig. B



圖C Fig. C



圖D Fig. D



公差為: $\pm 5\text{mm}$

3Ø, 60Hz, 440V (適用於系統電壓為380V)
3Ø, 60Hz, 440V (For 380V system voltage)

電容器 440VAC (kVar)	電抗器		電流 Current (A)	容量		尺寸 Dimensions (mm)						圖別 Fig	概重 Weight (kg)
	型號 Type	額定電壓 (V)		(kVar)	(mH)	A	B	C	D	E	F		
5	SR6-4460030TA	440	6.6	0.3	6.162	90	180	88	110	170	7-12L	A	8.3
10	SR6-4460060TA		13.1	0.6	3.081	90	180	88	110	170	7-12L	A	8.3
15	SR6-4460090TA		19.7	0.9	2.054	100	208	95	165	170	10-20L	B	11.1
20	SR6-4460120TA		26.2	1.2	1.541	120	226	100	175	180	10-20L	B	14.5
25	SR6-4460150TA		32.8	1.5	1.232	135	260	115	200	200	10-20L	B	23.4
30	SR6-4460180TA		39.4	1.8	1.027	135	260	115	200	200	10-20L	B	23.4
35	SR6-4460210TA		45.9	2.1	0.880	135	260	130	215	215	10-20L	B	28.5
40	SR6-4460240TA		52.5	2.4	0.770	135	260	130	215	215	10-20L	B	28.5
45	SR6-4460270TA		59.0	2.7	0.685	140	300	130	210	260	10-20L	C	33.6
50	SR6-4460300TA		65.6	3	0.616	140	300	130	210	260	10-20L	C	33.6
55	SR6-4460330TA		72.2	3.3	0.560	140	300	130	210	260	10-20L	C	33.6
60	SR6-4460360TA		78.7	3.6	0.514	140	300	130	210	260	10-20L	C	33.6
65	SR6-4460390TA		85.3	3.9	0.474	140	300	130	210	260	10-20L	C	34.6
70	SR6-4460420TA		91.9	4.2	0.440	140	300	130	210	260	10-20L	C	34.6
75	SR6-4460450TA		98.4	4.5	0.411	140	300	150	230	260	10-20L	C	42.1
80	SR6-4460480TA		105.0	4.8	0.385	140	300	150	230	260	10-20L	C	42.1
85	SR6-4460510TA		111.5	5.1	0.362	140	300	150	230	260	10-20L	C	45
90	SR6-4460540TA		118.1	5.4	0.342	140	300	150	230	260	10-20L	C	45
95	SR6-4460570TA		124.7	5.7	0.324	140	333	144	225	290	10-20L	C	52.4
100	SR6-4460600TA		131.2	6.0	0.308	140	333	144	225	290	10-20L	C	52.4
105	SR6-4460630TA		137.8	6.3	0.293	140	333	144	225	290	10-20L	C	52.4
110	SR6-4460660TA		144.3	6.6	0.280	140	333	144	225	290	10-20L	C	52.4
115	SR6-4460690TA		150.9	6.9	0.268	160	358	150	260	365	12-36L	D	57.1
120	SR6-4460720TA		157.5	7.2	0.257	160	358	150	260	365	12-36L	D	57.1

3Ø, 60Hz, 480V (適用於系統電壓為380V)
3Ø, 60Hz, 480V (For 380V system voltage)

電容器 480VAC (kVar)	電抗器		電流 Current (A)	容量		尺寸 Dimensions (mm)						圖別 Fig	概重 Weight (kg)
	型號 Type	額定電壓 (V)		(kVar)	(mH)	A	B	C	D	E	F		
5	SR6-4860030TA	480	6.0	0.3	7.334	90	180	78	100	170	7-12L	A	6.6
10	SR6-4860060TA		12.0	0.6	3.667	90	180	78	100	170	7-12L	A	6.6
15	SR6-4860090TA		18.0	0.9	2.445	100	208	95	165	170	10-20L	B	10.8
20	SR6-4860120TA		24.1	1.2	1.833	120	226	100	175	180	10-20L	B	14.5
25	SR6-4860150TA		30.1	1.5	1.467	135	260	115	200	200	10-20L	B	23.2
30	SR6-4860180TA		36.1	1.8	1.222	135	260	115	200	200	10-20L	B	23.2
35	SR6-4860210TA		42.1	2.1	1.048	135	260	130	215	215	10-20L	B	28.5
40	SR6-4860240TA		48.1	2.4	0.917	135	260	130	215	215	10-20L	B	28.5
45	SR6-4860270TA		54.1	2.7	0.815	140	300	130	210	260	10-20L	C	33.3
50	SR6-4860300TA		60.1	3	0.733	140	300	130	210	260	10-20L	C	33.3
55	SR6-4860330TA		66.2	3.3	0.667	140	300	130	210	260	10-20L	C	33.6
60	SR6-4860360TA		72.2	3.6	0.611	140	300	130	210	260	10-20L	C	33.6
65	SR6-4860390TA		78.2	3.9	0.564	140	300	130	210	260	10-20L	C	34.7
70	SR6-4860420TA		84.2	4.2	0.524	140	300	130	210	260	10-20L	C	34.7
75	SR6-4860450TA		90.2	4.5	0.489	140	300	150	230	260	10-20L	C	41.7
80	SR6-4860480TA		96.2	4.8	0.458	140	300	150	230	260	10-20L	C	41.7
85	SR6-4860510TA		102.2	5.1	0.431	140	300	160	240	260	10-20L	C	45.4
90	SR6-4860540TA		108.3	5.4	0.407	140	300	160	240	260	10-20L	C	45.4
95	SR6-4860570TA		114.3	5.7	0.386	140	333	144	225	290	10-20L	C	50.9
100	SR6-4860600TA		120.3	6.0	0.367	140	333	144	225	290	10-20L	C	50.9
105	SR6-4860630TA		126.3	6.3	0.349	140	333	144	235	290	10-20L	C	52.4
110	SR6-4860660TA		132.3	6.6	0.333	140	333	144	235	290	10-20L	C	52.4
115	SR6-4860690TA		138.3	6.9	0.319	140	333	144	235	290	10-20L	C	52.4
120	SR6-4860720TA		144.3	7.2	0.306	140	333	144	235	290	10-20L	C	52.4