



**The structure of the series reactor:**

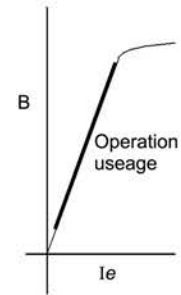
Power system consists of harmonic component, due to increasing of the user's electronic equipments. Also power factor correction bank combines with several steps of capacitors. It adapts power factor automatic control system to make capacitor switch frequently and to enable the capacitor suffering larger inrush current. Thus, the structure of the series reactor should

consider the following points:

- The stress from high inrush current
- Owing to frequent operation, bringing in thermal load due to inrush current
- The thermal load of each harmonic component increasing
- The accuracy of mH value. Stabilize linear characteristics after long term application
- Mechanical structure

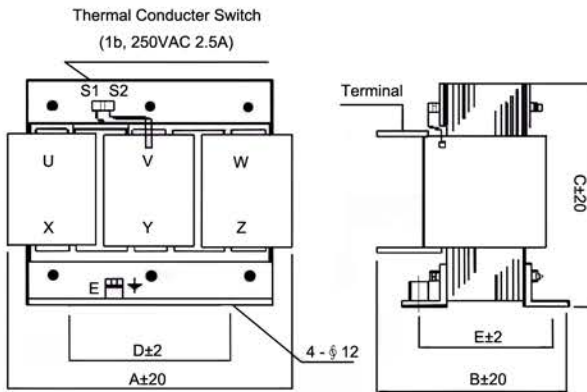
**Specification of series reactor:**

- Ambient temperature: -20C ~ +65C
- Standard: IEC 289
- Phase / Frequency:  $\_\_\phi / \_\_\text{Hz}$
- Elevation: sea level below 1,000m
- Nominal voltage/current:  $\_\_\text{V} / \_\_\text{A}$
- Application: Indoor/Outdoor
- Reactance:  $\_\_\text{mH}$  (-5% ~ +10%)
- Insulation material: Dry type F/H class
- Insulation withstand: AC  $\_\_\text{(KV/1M)}$ , BIL  $\_\_\text{(KV)}$
- Temperature rise: under 125C (H class) under 100C (F class), when  
110% nominal voltage  
130% nominal current (nominal Hz)  
135% nominal capacity
- Saturation current: 2 In



**Features of CIC series reactor:**

- L.V/M.V product which carries with built-in thermal contact switch
- Firm structure
- M.V. series reactor complies with shockproof equipment
- ISO-9001 quality assurance
- Linear mH value
- High accuracy
- Well experienced and reliable
- Self-extinguish material



No	KVA	A	B	C	D	E	Weight
1	0.3-0.5	220	155	180	120	95	12KG
2	0.6-1.2	220	155	180	120	95	15KG
3	1.3-1.8	220	170	180	120	110	20KG
4	1.9-2.4	260	170	215	150	110	25KG
5	2.5-3.1	260	170	215	150	110	30KG
6	3.2-3.9	260	180	215	150	120	35KG
7	4.0-4.9	350	180	300	200	115	40KG
8	5.0-6.4	350	180	300	200	115	45KG
9	6.5-8.9	350	190	340	200	120	55KG
10	9.0-10.9	350	200	340	200	135	60KG
11	11.0-11.9	350	210	340	200	145	70KG
12	12.0-15.9	350	215	380	200	150	80KG
13	16.0-18.0	350	225	420	200	160	90KG

440V/415V(50 KVAR) 50Hz w/ Reactor		
Cap. KVAR	P= 7%	P= 6%
10 KVAR	0.8 KVA	0.7 KVA
15 KVAR	1.2 KVA	1.0 KVA
20 KVAR	1.6 KVA	1.4 KVA
25 KVAR	2.0 KVA	1.7 KVA
30 KVAR	2.4 KVA	2.0 KVA
35 KVAR	2.8 KVA	2.4 KVA
40 KVAR	3.2 KVA	2.7 KVA
45 KVAR	3.6 KVA	3.1 KVA
50 KVAR	4.0 KVA	3.4 KVA