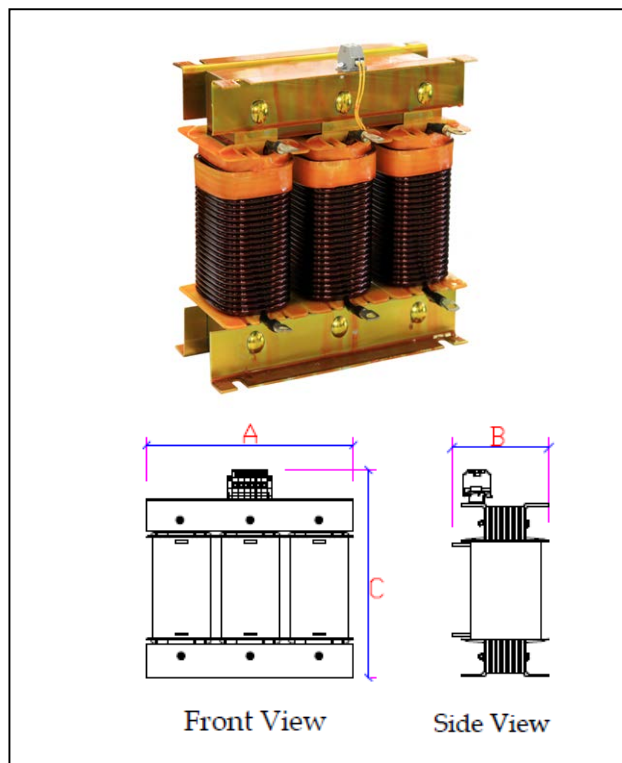


DRY TYPE REACTORS

IRON CORE HARMONIC FILTER REACTOR

SPECIFICATIONS

VPI, Single Phase or Three Phase, Iron Core, Double air gap
 Rated Voltage: 230 V to 690 V
 Rated (Base) Frequency: 50 Hz
 Detuning (Filtering Factor), p : 5.67%, 7%, 14% etc.
 Corresponding Resonance Frequency: 210 Hz, 189 Hz, 134 Hz etc.
 Inductance Tolerance: $\pm 3\%$
 Taps: Provided as required
 Fundamental Harmonic Current: $I_1 = \dots$ (Ref. to following Table)
 Maximum Harmonic Current: $I_h = 0.3 I_1$
 Heating Limit Current: $I_{th} = 1.1 I_1 (p=7\%)$, $1.2 I_1 (p=5.67\%)$
 Saturation Current (Linearity): $I_{Lin} = 1.75 I_1$
 Maximum Current: $I_{max} = 2 I_1$
 Altitude: Under 1000 m
 Ambient Temperature: $+50^\circ\text{C}$
 Thermal Isolation: Class F/155 °C
 Insulation Withstand Voltage: 4000 volts for 1 minute or equivalent
 Cooling Method: Air Natural Convection
 Noise Level: Below 40db
 Degree of Protection: IP-00 (Open Construction)
 IP-23, IP-44, IP-65 etc. (Enclosure Type)
 Standards/Directives: IEC 61558-2-20



Model	Rated Capacitor Output (kVAR)	Rated Current, In, (A)	Typical Power Loss (W)	Dimensions (mm) for $U_r = 3 \times 400 \text{ V}, 50\text{Hz}, p = 7\% (189\text{Hz})$, Open Construction			Weight (kg)
				Width, A	Depth, B	Height, C	
FR3-12A/10KO	10	12	80	210	130	225	10
FR3-17A/15KO	15	17	108	210	133	225	12.5
FR3-17A/15KO	20	22	117	210	138	225	13.5
FR3-17A/15KO	25	27	120	210	140	225	15
FR3-17A/15KO	30	33	155	240	140	200	18
FR3-17A/15KO	40	44	160	240	145	200	24
FR3-17A/15KO	50	55	170	240	155	200	32
FR3-17A/15KO	60	67	175	306	210	255	36
FR3-17A/15KO	70	76	180	306	235	255	40
FR3-17A/15KO	80	89	185	306	245	255	53
FR3-17A/15KO	100	110	205	306	260	255	61
FR3-17A/15KO	120	133	220	306	290	255	67
FR3-17A/15KO	150	165	240	306	330	310	75
FR3-17A/15KO	200	220	280	380	330	335	90

Note: All dimensions are in mm, Tolerance: $\pm 2\%$. Specification subject to change without prior notice.

Customized Harmonic Filter reactors with different electrical and mechanical specifications are available on request.