



THE FIRST CHOICE OF ENERGY EFFICIENCY

ELCO LOW VOLTAGE DETUNED REACTOR

A Series Reactor functions together with a power capacitor to provide a Series Resonance circuit that acts as a sink drawing damaging harmonics, preventing dangerous overloads and increasing the life of the Automatic Power Factor Correction System Components.

TECHNICAL SPECIFICATION

Maximum Rated Input Voltage	Up to 440V
Frequency	50 Hz
Resonance Frequency	7% - 189 Hz / 6% - 204Hz / 13% - 139Hz
Impedance Ratio / Model	P= 7% of Capacitor Value / BR07 P= 6% of Capacitor Value / BR06 P= 13% of Capacitor Value / BR13
Coil Winding Material	Copper / Aluminium
Maximum Current Including Harmonics Overload	1.43In
Approximate Losses	1% ~ 2%
Tolerance of Inductance	+/- 5%
Linearity of Inductance	1.5 x In
Designed Limits for Harmonic Currents	I5 = 50%, I7 = 25%, I11 = 12.5%, I13 = 5%
Ventilation / IP Class	Air-Cooled / IP 00 [Indoor]
Maximum Operating Temperature Rise	120°C at ambient temperature 40°C
Thermal Overloads Protection	Built-in thermostat cut off at 130°C
Insulation Class	Class H (180°C) / Class F (Upon Request)
Vacuum Impregnation	Yes
Insulation Strength Testing Voltage	3.0kV
Noise Level	Below 55db
Installation Mounting & Clearance	Vertical, Min 12" on the rear and 6" on both sides of the enclosure to the walls
Duty Cycle	Continuous
Compliance Standards	IEC60076-6



PRODUCT INFORMATION - ELCO LOW VOLTAGE DETUNED REACTOR - CLASS H

Product Code	525V Capacitor rated power	LC Power at (415/440)	Reactor Inductance	Dimension (mm)			Weight (kg) +/- 0.2
	kvar	kvar	mH	W	D	H	Weight
BR07ELCO0050ALU	5.0	3.4	12.2827	165	120	140	3.7
BR07ELCO0100ALU	10.0	6.7	6.1413	180	115	185	7.0
BR07ELCO0150ALU	15.0	10.1	4.0942	180	125	185	8.6
BR07ELCO0200ALU	20.0	13.4	3.0707	180	135	185	8.7
BR07ELCO0250ALU	25.0	16.8	2.4565	250	135	195	11.6
BR07ELCO0300ALU	30.0	20.2	2.0471	250	140	195	12.7
BR07ELCO0400ALU	40.0	26.9	1.5353	250	150	195	14.1
BR07ELCO0500ALU	50.0	33.6	1.2282	265	160	195	16.7
BR07ELCO0600ALU	60.0	40.3	1.0235	270	205	230	22.8
BR07ELCO0700ALU	70.0	47.0	0.8773	320	200	280	30.5
BR07ELCO0750ALU	75.0	50.4	0.8818	320	200	280	30.5
BR07ELCO0800ALU	80.0	53.8	0.7676	320	200	280	30.5
BR07ELCO0900ALU	90.0	60.5	0.6823	320	215	280	33.0
BR07ELCO1000ALU	100.0	67.2	0.6141	320	215	280	33.0
BR07ELCO1200ALU	120.0	80.6	0.5117	320	235	280	35.8
BR07ELCO1500ALU	150.0	100.8	0.4094	375	270	280	50.0
BR07ELCO2000ALU	200.0	134.4	0.3070	410	270	320	58.0
BR07ELCO2500ALU	250.0	167.9	0.2456	435	295	320	76.0
BR07ELCO3000ALU	300.0	201.6	0.2047	435	295	320	76.0

PRODUCT DIMENSION

