



VarPlus MAX Detuned Reactors

MAXimize Efficiency
MAXimize Savings



PFC - Detuned Reactors



VarPlus Max Detuned Reactor

- **Performance:** Designed to operate at a stringent harmonic spectrum as per IEEE 519
- **Offer configuration:** 6.5 - 100 kvar, 440V
- **Product range:** Single footprint from 6.5 - 100 kvar
- **Product compliance:** Compliant to IEC 60076-6
- **Type tested:** Certified by CPRI
- **Temperature class:** Class H for insulation <=180°C
- **Reliability:** Conductor design, designed as per maximum permissible current (Imp)
- **Safety:** Built-in thermal protection

Detuned Reactor 440V Range

Description	kVAr Rating	Minimum Ordering Quantity (No.)	Reference	Unit MRP
VarPlus MAX Detuned Reactor 5.7%, 440V Range				
VarPlus MAX AL Detuned reactor 20 kVAr 440V 5.7 % 50Hz	20	1	LVR05200A44LO	31829
VarPlus MAX AL Detuned reactor 25 kVAr 440V 5.7 % 50Hz	25	1	LVR05250A44LO	32890
VarPlus MAX AL Detuned reactor 50 kVAr 440V 5.7 % 50Hz	50	1	LVR05500A44LO	49210
VarPlus MAX AL Detuned reactor 100 kVAr 440V 5.7 % 50Hz	100	1	LVR05X00A44LO	98386
VarPlus MAX Detuned Reactor 7%, 440V Range				
VarPlus MAX AL Detuned reactor 5 kVAr 440V 7% 50Hz	5	1	LVR07050A44LO <input checked="" type="checkbox"/>	14297
VarPlus MAX AL Detuned reactor 10 kVAr 440V 7% 50Hz	10	1	LVR07100A44LO <input checked="" type="checkbox"/>	20662
VarPlus MAX AL Detuned reactor 12.5 kVAr 440V 7% 50Hz	12.5	1	LVR07125A44LO <input checked="" type="checkbox"/>	23627
VarPlus MAX AL Detuned reactor 15 kVAr 440V 7% 50Hz	15	1	LVR07150A44LO <input checked="" type="checkbox"/>	25053
VarPlus MAX AL Detuned reactor 20 kVAr 440V 7% 50Hz	20	1	LVR07200A44LO <input checked="" type="checkbox"/>	26593
VarPlus MAX AL Detuned reactor 25 kVAr 440V 7% 50H	25	1	LVR07250A44LO <input checked="" type="checkbox"/>	26602
VarPlus MAX AL Detuned reactor 50 kVAr 440V 7% 50Hz	50	1	LVR07500A44LO <input checked="" type="checkbox"/>	41081
VarPlus MAX AL Detuned reactor 75 kVAr 440V 7% 50Hz	75	1	LVR07750A44LO <input checked="" type="checkbox"/>	64074
VarPlus MAX AL Detuned reactor 100 kVAr 440V 7% 50Hz	100	1	LVR07X00A44LO <input checked="" type="checkbox"/>	82994
VarPlus MAX Detuned Reactor 14%, 440V Range				
VarPlus MAX AL Detuned reactor 10 kVAr 440V 14 % 50Hz	10	1	LVR14100A44LO	22198
VarPlus MAX AL Detuned reactor 15 kVAr 440V 14 % 50Hz	15	1	LVR14150A44LO	32396
VarPlus MAX AL Detuned reactor 25 kVAr 440V 14 % 50Hz	25	1	LVR14250A44LO <input checked="" type="checkbox"/>	40680
VarPlus MAX AL Detuned reactor 50 kVAr 440V 14 % 50Hz	50	1	LVR14500A44LO <input checked="" type="checkbox"/>	67852
VarPlus MAX AL Detuned reactor 100 kVAr 440V 14 % 50Hz	100	1	LVR14X00A44LO	140316



Introducing VarPlus MAX Copper Wound Reactors



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Copper Wound Detuned Reactor



VarPlus Max Copper Detuned Reactors

- **MAXimize your selection**
 - Wide range available in Copper windings.
- **MAXimize your OPEX optimization**
 - Up to 30% lower losses to reduce your OPEX
- **MAXimize your thermal efficiency**
 - Up to 20% lower working temperatures
- **MAXimize your operational efficiency**
 - Design current up to 1.3 x Rated Current
 - Saturation current limit up to 2.0 x Rated Current
 - Designed for Harsh environments (Maximum voltage harmonic limit up to 9%)

Copper Wound Detuned Reactor 440V Range

Description	kVAr Rating	Minimum Ordering Quantity (No.)	Reference	Unit MRP 
Varplus Copper Detuned Reactor 7%, 440V Range				
Detuned Reactor CU 5kVAr 440V 7% 50Hz	5	1	LVR07050A44CU	17415
Detuned Reactor CU 10kVAr 440V 7% 50Hz	10	1	LVR07100A44CU	28454
Detuned Reactor CU 12.5kVAr 440V 7% 50Hz	12.5	1	LVR07125A44CU	30259
Detuned Reactor CU 15kVAr 440V 7% 50Hz	15	1	LVR07150A44CU	34499
Detuned Reactor CU 20kVAr 440V 7% 50Hz	20	1	LVR07200A44CU	36620
Detuned Reactor CU 25kVAr 440V 7% 50Hz	25	1	LVR07250A44CU	42216
Detuned Reactor CU 50kVAr 440V 7% 50Hz	50	1	LVR07500A44CU	71800
Detuned Reactor CU 100kVAr 440V 7% 50Hz	100	1	LVR07X00A44CU	131865
Varplus Copper Detuned Reactor 14%, 440V Range				
Detuned Reactor CU 10kVAr 440V 14% 50Hz	10	1	LVR14100A44CU	34758
Detuned Reactor CU 25kVAr 440V 14% 50Hz	25	1	LVR14250A44CU	67615
Detuned Reactor CU 50kVAr 440V 14% 50Hz	50	1	LVR14500A44CU	112783

Selection of capacitor (kVAr & Voltage) for Detuned filter Application

Effective kVAr output of Detuned Filter @ 440V	Selection of 480V capacitors for 7%/ 5.7% detuned Reactor for 440V	Selection of 525V capacitors for 7%/ 5.7% detuned Reactor for 440V	Selection of 525V capacitors for 14% detuned Reactor for 440V
5	5kVAr 7%/5.7% Reactor + 5.6kVAr, 480V Capacitor	5kVAr 7%/5.7% Reactor + 6.9kVAr, 525V Capacitor	5kVAr 14% Reactor + 6.9kVAr, 525V Capacitor
10	10kVAr 7%/5.7% Reactor + 11.3kVAr, 480V Capacitor	10kVAr 7%/5.7% Reactor + 13.8kVAr, 525V Capacitor	10kVAr 14% Reactor + 12.5kVAr, 525V Capacitor
12.5	12.5kVAr 7%/5.7% Reactor + 14.4kVAr, 480V Capacitor	12.5kVAr 7%/5.7% Reactor + 17.2kVAr, 525V Capacitor	12.5kVAr 14% Reactor + 15.4kVAr, 525V Capacitor
15	15kVAr 7%/5.7% Reactor + 17kVAr, 480V Capacitor	15kVAr 7%/5.7% Reactor + 20.6kVAr, 525V Capacitor	15kVAr 14% Reactor + 18.5kVAr, 525V Capacitor
20	20kVAr 7%/5.7% Reactor + 22.4kVAr, 480V Capacitor	20kVAr 7%/5.7% Reactor + 27.5kVAr, 525V Capacitor	20kVAr 14% Reactor + 25kVAr, 525V Capacitor
25	25kVAr 7%/5.7% Reactor + 28.1kVAr, 480V Capacitor	25kVAr 7%/5.7% Reactor + 33.1kVAr, 525V Capacitor	25kVAr 14% Reactor + 30.6kVAr, 525V Capacitor
50	50kVAr 7%/5.7% Reactor + 2 x 28.1kVAr, 480V Capacitor	50kVAr 7%/5.7% Reactor + 2 x 33.1kVAr, 525V Capacitor	50kVAr 14% Reactor + 2 x 30.6kVAr, 525V Capacitor
75	75kVAr 7%/5.7% Reactor + 3 x 28.1kVAr, 480V Capacitor	75kVAr 7%/5.7% Reactor + 3 x 33.1kVAr, 525V Capacitor	75kVAr 14% Reactor + 3 x 30.6kVAr, 525V Capacitor
100	100kVAr 7%/5.7% Reactor + 4 x 28.1kVAr, 480V Capacitor	100kVAr 7%/5.7% Reactor + 4 x 33.1kVAr, 525V Capacitor	100kVAr 14% Reactor + 4 x 30.6kVAr, 525V Capacitor