

Specifications of 3-Ph inductor

Sl.No	Description	BHEL Specification
1	Application	These inductors will be connected at the AC output of Pulse Width Modulated (PWM) inverter for filtering application. It will be subjected to 4 KHz PWM AC O/P with 50Hz fundamental superimposed. The peak of pulse voltage is 700 V DC .
2	Quantity required	2 Nos
3	Reactor Inductance	3-Ph reactor of 1.2 mH $\pm$ 5% and tapping at 0.7 mH $\pm$ 5%
4	Nominal Current (r.m.s)	100 A, three phase.
5	Rated voltage	415 V +/-10%
6	Core	CRGO
7	Inverter switching frequency	4 KHz
8	Fundamental Frequency	50Hz
9	Linearity	upto 150% of the current (i.e 150 A)
10	cooling	natural air
11	Insulation class	H class
	General specifications	
	Manufactures Test Certificate	Manufacturer's Test Certificate required and shall be provided before dispatch.
	Weight & Dimensions	should be provided by supplier

Specifications of 1-ph inductor

Sl.No	Description	BHEL Specification
1	Application	These inductors will be connected at the DC output of Pulse Width Modulated (PWM) buck chopper for filtering application.
2	Quantity required	3 Nos
3	Reactor Inductance	1-Ph reactor of 2.7 mH $\pm$ 5% and tapping at 2.2 mH $\pm$ 5%
4	Nominal Current	50 A
5	Minimum voltage	100 V
6	Maximum voltage	500 V
7	Core	CRGO
8	PWM switching frequency	4 KHz
9	Linearity	upto 150% of the rated current
10	cooling	natural air
11	Insulation class	H class
	<u>General specifications</u>	
	Manufactures Test Certificate	Manufacturer's Test Certificate required and shall be provided before dispatch.
	Weight & Dimensions	should be provided by supplier