

Inductit® Design Form



Contact Information

Company _____
 Contact Person _____
 Telephone _____
 Email _____

Address _____
 City _____
 State _____
 Country _____

Application

E.g. – LCL Filter in motor drive, PFC in UPS....

Primary Objective Cost Loss Dimensions

First Year of Production _____

Estimated Number Per Year _____

3 Phase are to be counted as 3 Inductors

Target Price (Euros) If Known _____

For One Phase Inductor

Maximum Physical Dimensions

Inductor Excluding Connectors

X(mm) × Y(mm) × Z(mm) _____

Please include additional free space if existing solution is not utilizing as it might help in reducing cost. Inductit solution is fully isolated and has near zero leakage on outer side and hence there is no requirement to keep space between inductor and other components.

Connectors

Length (mm) _____

Direction (e.g - X) _____

End Type If Decided

Example – Bare, Lug....

Technical Requirements

Incremental/Differential Inductance

Point	I [A]*	L [μH]
A		
B		
C		



Loss

Rdc (mΩ) < If any _____

Stringent requirement may lead to higher cost solution

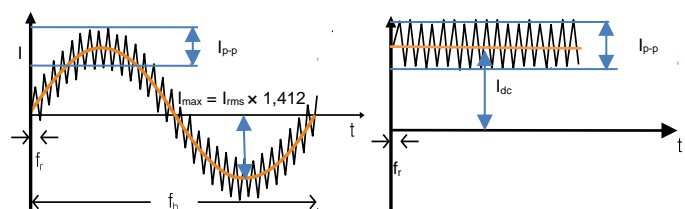
Total Loss (W) < If any _____

Stringent requirement may lead to higher cost solution

Operating Current

Base Current I_{dc}/I_{rms} (A)	
Base Frequency f_b (Hz)	
Ripple Current I_{p-p} (A)	
Ripple Frequency f_r (kHz)	

Alternatively, current harmonic spectrum is also acceptable.



Thermal Requirements and Conditions

Hottest Point (°C) < _____

Standard Class F Insulation < 155°C

Cooling Medium (Select One)

Only Natural Convection

Heatsink

Forced Air Cooling

Forced Air Cooling with Heatsink

Water Plate Cooling

Ambient Air Temperature (°C) _____

(Fill Corresponding Details of The Selected Medium)

No Further Information Required

Single or Double Sided _____

Heatsink Surface (e.g. - XY) _____

Thermal Resistance per Side (°C/W) If Known _____

Heatsink Temperature (°C) _____

Fan Speed (m/sec) _____

Air Temperature (°C) _____

Flow Direction (e.g. - X) _____

Single or Double Sided _____

Heatsink Surface (E.g. - XY) _____

Thermal Resistance per Side (°C/W) If Known _____

Heatsink Temperature (°C) _____

Fan Speed (m/sec) _____

Flow Direction (e.g. - X) _____

Single or Double Sided _____

Water Plate Surface (e.g. - XY) _____

Thermal Resistance per Side (°C/W) If Known _____

Water Temperature (°C) _____

Insulation Requirements

HiPot Test Voltage _____

Between coil and core - e.g.: Withstand test AC 3.6 kV, 60s

Operation Voltage (V) _____

Mounting

Surface (e.g.- XY) _____

Surface Type (e.g.- Insulated) _____

Method (e.g.- Screw(s), Paste) _____

Other Requirements/Information (If Any)
