CMC Design Checklist

November 2019

NOTE: The yellow fields contain basic information. Please fill in all available data.
The white fields contain additional background information.

Company name:		Contact person:	
Address:		Tel.:	
	☐ New project ☐ Replacement for:	E-Mail:	
Application (please specify in more detail):	☐ SMPS/UPS: ☐ Drives/Inverter: ☐ Solar/Photovoltaic: ☐ Welding: ☐ Other:	Date:	
		Power: ___ kW	Project name(s), description:	

Expected annual usage [pcs.]:	Year 1	Year 2	Year 3	Year 4	Target price [€]:	
					Product life cycle [years]:	
Sample quantity:	pcs.	Sample date:			SOP:	

Operational Characteristics

Number of windings:		**Rated voltage [1]:**	
Nominal load current:	A (RMS or DC)	**OVCat 3:**	V ☐ RMS ☐ DC
Overload current:	A for **s**	**OVCat 2:**	V ☐ RMS ☐ DC
Nominal impedance:	Ω @ kHz	**Pollution degree (typ. 2):**	
Nominal inductance:	**mH @** kHz	**Max. ambient temperat.:**	°C
	mH @ kHz	**Max. operational temp.:**	°C
Switching frequency:	kHz	**Cooling mechanism:**	☐ Convection
Max. Common Mode Current:	⨎ A @ LF (<20kHz)	Forced cooling Fan:	☐ m/s
(leak. curr. / unbalanced current / noise)	⨎ A @ kHz	Heat sink:	☐ K/W
Leakage inductance:	µH	**Copper resistance R_Cu:**	mΩ
Results from own tests: Core:		**Casing construction:**	
No of turns:		**Design:** upright ☐	low profile ☐
(Number of strands) × Ø_Cu:	× mm	PTH ☐ SMD ☐	Cable Lugs ☐
Max. dimensions: W × D × H:	× × mm	**Pinning already fixed:**	☐ yes ☐ no

[1] typically: Overvoltage Category 3 = connected to mains, Overvoltage Category 2 = not connected to mains

Additional Specifications

Electrical standards:	☐ **EN50178**	☐ UL	☐ other:	☐ none	For IEC62109 and IEC61800 please use separate checklist
Environmental demands:	Vibration:		Humidity:		Dust:
QM-Requirement:	☐ **ISO 9001**		☐ **TS16949**	☐ **Others:**	

Filter Design:

Filter:	1-stage ☐	2-stage ☐	multi-stage ☐ (No. of stages:)
Schematic:	draft on page 2 ☐	separate attachment ☐	

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Further comments:

Draft of filter schematic: