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Reactor Technology at Its Best
MANGOLDT

Specification Submittal Form — Line Reactors

acc. UL/CSA file no. 173113

☐ Use Standard Mangoldt Specification — LOW VOLTAGE SPEC

Phases	☐ 3~ ☐ 1~
System Voltage (V_N)	☐ 600V ☐ 480V ☐ 415V ☐ 400V ☐ 380V ☐ 240V ☐ 208V
System Frequency	☐ 60 hz ☐ 50 hz
Fundamental Current	_____ Amps rms
% Impedance:	☐ 1.5% ☐ 2% ☐ 3% ☐ 4% ☐ 5% ☐ _____ %
Inductance / tolerance	_____ mH ± 3 % of L_{Nom}
Harmonic currents:	See table below
Thermal current(I_{RMS})	See table below
Core linearity (I_{LIN}):	2.5 x I_{Fund} (with 0.95 x L_{Nom})
Max. ambient temperature:	50° Celcius
Over-temperature switch:	1 in center coil ☐ N.C. ☐ N.O.

Reactor Impedance	**1.5%**	**2%**	**3%**	**4%**	**5%**
Harmonic No.	**Magnitude of Current per Harmonic Frequency**				
1 (Fund)	**1**	**1**	**1**	**1**	**1**
5	**0.51**	**0.46**	**0.39**	**0.35**	**0.32**
7	**0.28**	**0.23**	**0.17**	**0.14**	**0.12**
11	**0.11**	**0.09**	**0.075**	**0.065**	**0.06**
13	**0.07**	**0.06**	**0.05**	**0.043**	**0.04**
17	**0.04**	**0.035**	**0.03**	**0.025**	**0.024**
19	**0.03**	**0.028**	**0.023**	**0.02**	**0.02**
Total Harmonics	0.60	0.53	0.44	0.39	0.35
Thermal Current Irms	**1.17**	**1.13**	**1.09**	**1.07**	**1.06**

☐ Use Customer Specification

Phases	☐ 3~ ☐ 1~
System Voltage (V_N)	_____ Volts, specify ( ) L-L or ( ) L-N
System Frequency	☐ 60 hz ☐ 50 hz
Fundamental Current	_____ Amps rms
% Impedance:	_____ OR _____mH
Harmonic current capability:	I_5 = _____%, I_7 = _____%, I_{11} = _____%, I_{13} = _____%, I_{17} = _____%, I_{19} = _____%
relative on I_{Fund}	_____, _____, _____, _____, _____
Core linearity (I_{LIN}):	_____ x I_N (with 0.95 x L_{Nom})
Max. ambient temperature:	_____° Celcius
Over-temperature switch(es):	☐ one ☐ three
Over-temperature switch:	☐ N.C. ☐ N.O.

Company: _____ Name: _____
City: _____ St/Prov: _____ PC/ Zip _____
Tel: _____ Fax: _____
Email_____