

LTspice Model

Current Transformer

SHT Corporation

CTS-EE0904MW2

Model Information

Model A macro model
Call Name MDC_CTS-EE0904MW2_LT
Pin Assign 1:1 2:2 3:3 4:4(NC) 5:5
File List Model Library MDC_CTS-EE0904MW2_LT01.lib
 Model Report MDC_CTS-EE0904MW2_LT.pdf(this file)

Verified Simulator Version LTspice version XVII
Note

References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version Unknown
- Product name CTS-EE0904MW2
- Company name SHT

[Characteristics listed]

- Characteristics Vout-lin, Zout, Zin

Simulation Condition

This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

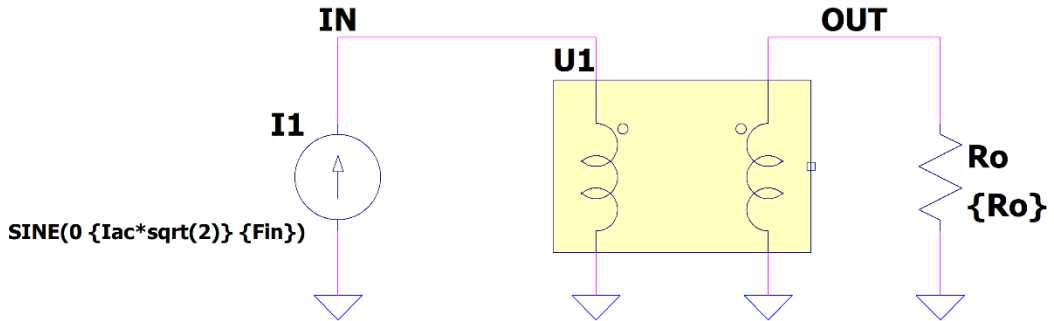
Item	Condition			Unit
	Min	Typ	Max	
Input current range	0		25.0	A
Temperature		25		deg C

Model Functions Table

Functions	Implemented
Current to voltage conversion	<input type="radio"/>

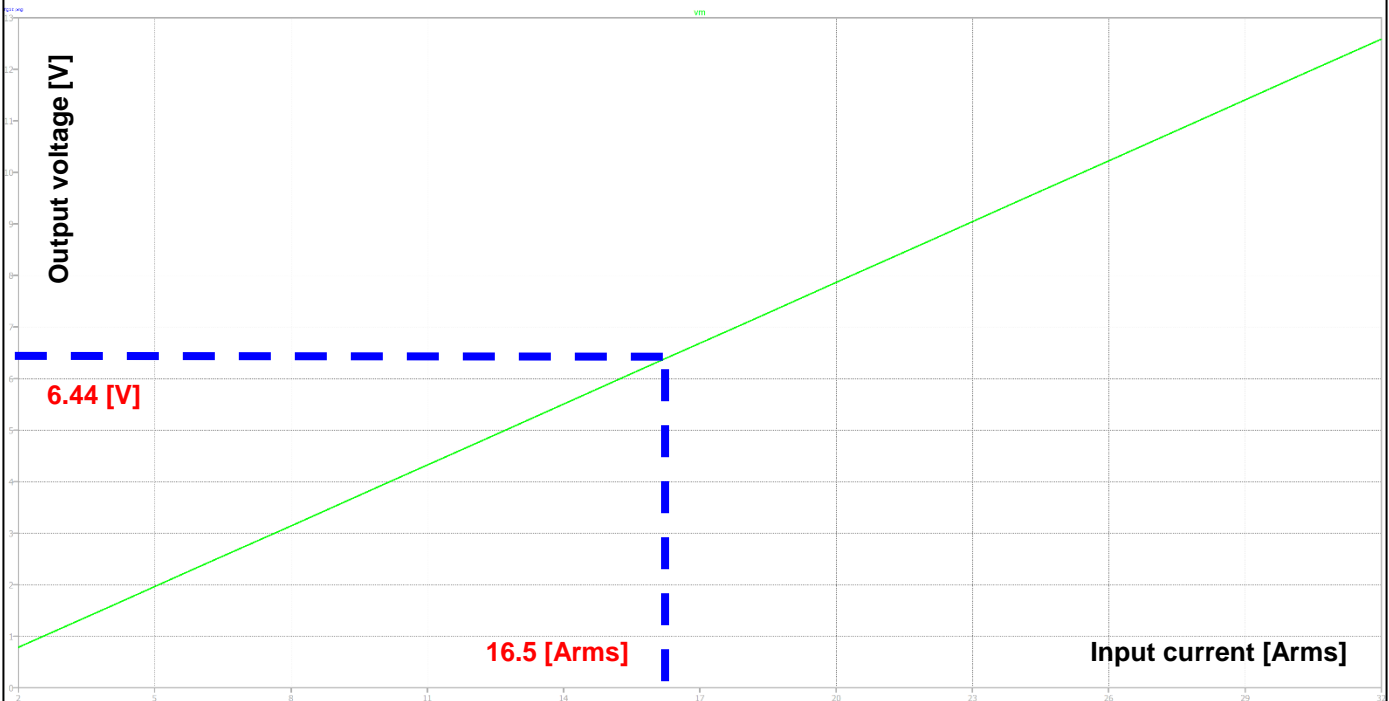
Current to voltage conversion (Current freq.=60[Hz], Rout=1.5[kohm], Ta=25[degC]) Testbench

Referred to Data Sheet



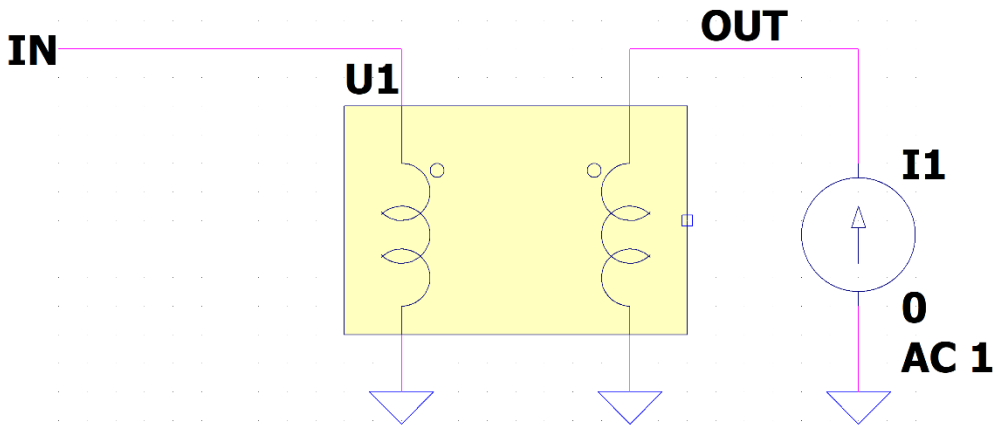
```

.tran 0 60m 0 1u
.temp 25
.options tnom=25 plotwinsize=0 nomarch
.meas TRAN Vpp PP v(out) FROM 20m TO 60m
.meas TRAN Vm PARAM Vpp/2
.param Fin=60 Iac=16.5 Ro=1.5k
.step param Iac 2 32 2
.lib MDC_CTS-EE0904MW2_LT01.lib
    
```

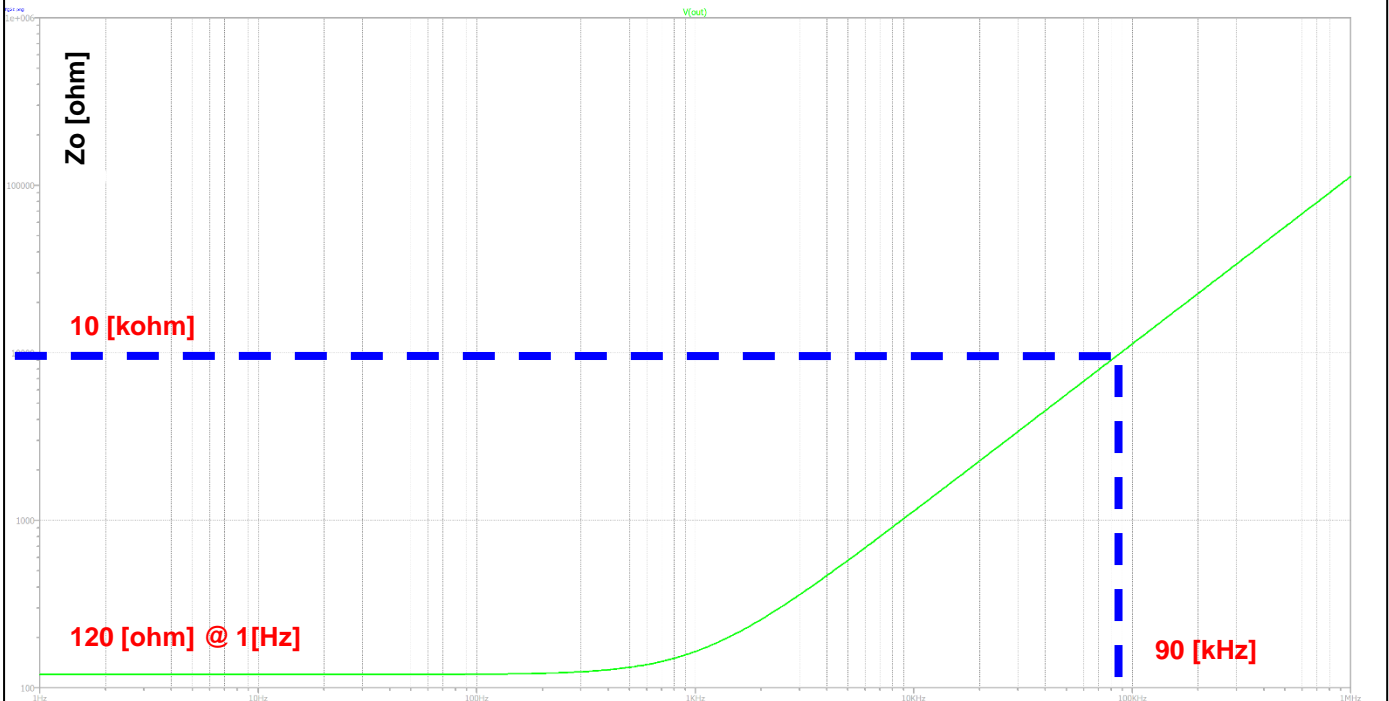


Output impedance ($T_a=25[\text{degC}]$) Testbench

Referred to Data Sheet



```
.ac dec 10 1 1meg
.temp 25
.options tnom=25 plotwinsize=0
.lib MDC_CTS-EE0904MW2_LT01.lib
```



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