

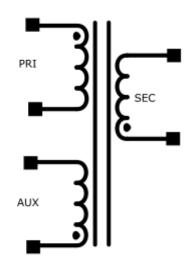
WEBENCH ® Transformer Report

Design: 7 UC3845N UC3845N 85V-265V to 15.00V @ 4A

#	Name	Value
1.	Core Part Number	150-1680
2.	Core Manufacturer	Wurth Elektronik
3.	Coil Former Part Number	070-5080
4.	Coil Former Manufacturer	Wurth Elektronik

Transformer Electrical Diagram

Primary	
Turns	29.0
AWG	26.0
Layers	2.0
Strands	2.0
Insulation Type	Heavy Insulated Magnet Wire
Auxiliary	
Auxiliary _{Turns}	8.0
•	8.0 28.0
Turns	
Turns AWG	28.0



Secondary

Turns 10.0

AWG 26.0

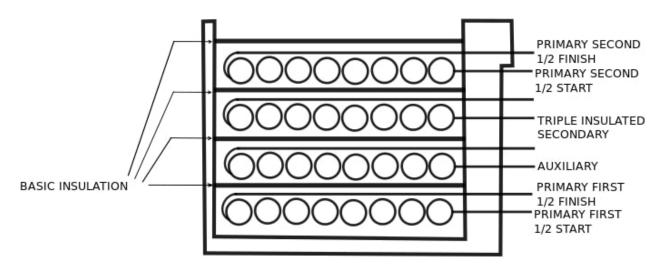
Layers 1.0

Strands 2.0

Insulation Type Triple Insulated

Transformer Construction Diagram

Magnet Wire



Winding Instruction

Winding	AWG	Turns	Winding Orientation
Primary First 1/2.0	26.0	15	Clockwise
Auxiliary	28.0	8.0	Counter Clockwise
Triple Insulated Secondary	26.0	10.0	Counter Clockwise
Primary Second 1/2.0	26.0	14	Clockwise

Transformer Parameters

#	Name	Value
1.	Lpri	1.37E-4H
2.	Inductance Factor(AI)	163.0nH
3.	Npri	29.0
4.	Nsec	10.0
5.	Naux	8.0
6.	Core Type	EE25/13/11
7.	Core Material	TP4A
8.	Bmax	0.20T
9.	Switching Frequency	99.31kHz
10.	DMax	0.36
11.	Ipk(Primary)	3.27A
12.	Irms(Primary)	1.24A
13.	Ipk(Secondary)	9.49A
14.	Irms(Secondary)	4.81A

Design Assistance

1. UC3845 Product Folder: http://www.ti.com/product/UC3845: contains the data sheet and other resources.

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