85 - 265 VAC

F1
1 A

C1
47 nF
250 V

RT1
15 Ω

L1
6 mH

D1
DFLR1800...

D3
DFLR1800...

D2
DFLR1800...

D4
DFLR1800...

C2
56 µF
400 V

R1
62 kΩ
2 W

C3
1.5 nF
630 V

R2
11 Ω

D5
RS07K-GS...

R3
2 MΩ
1%

R4
2 MΩ
1%

TOPSwitch-HX
U1
TOP254EN

CONTROL

D V C S X F

C4
0.1 µF
16 V

R5
6.8 Ω

C5
47 µF
10 V

C6
0.22 nF
250 VAC

T1
EFD20 (E...

1 6
2 5
4
3

R6
27 Ω

C7
390 pF
200 V

D7
V8P10-M3...

D6
LL4148-M...

C8
10 µF
50 V

C9
1800 µF
25 V

L2
3.3 µH

C10
100 µF
16 V

12.0 V, 2.00 A

RTN

U2B
FOD817A3...

U2A
FOD817A3...

R7
806 Ω
1%

R8
1 kΩ

C11
100 nF
16 V

U3
LM431ACM...
2 %

R9
43.2 kΩ
1%

R10
11.3 kΩ
1%

Schematic components that have been frozen by the user will appear with blue reference designators.