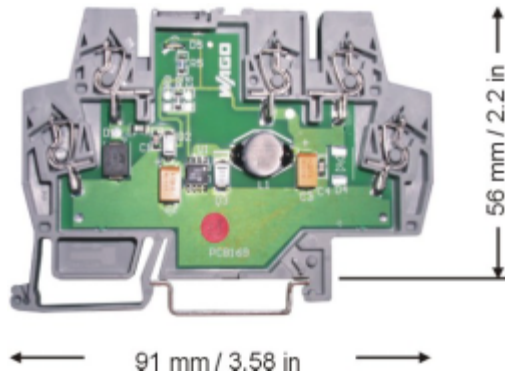


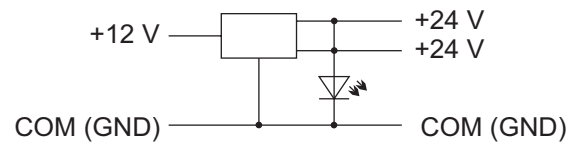
Electronic Terminal Block with DC-DC Converter

1/1

Step Up Converter DC 12 V / DC 24 V

Data sheet


Similar photo



Description	Item-No.	Pack.-unit pcs
DC/DC Converter 12 V / 24 V ; 250 mA	859-804	1
- End plate 859-525 included and attached. - Mounting on DIN 35 rail. Application: When industrial controls that typically require DC 24 V are used in remote locations, often only DC 12 V is available. This module can cost effectively produce DC 24 V at up to 250 mA from a 12 V source. This module has a wide input range to tolerate the variability of DC 12 V sources that may have a battery / charger based source. The converter design is highly efficient to conserve battery power.		
Technical Data		
Input nominal voltage U_N		
DC 12 V		
Input voltage range		
DC 8-16 V		
Output voltage		
DC 24 V		
Output voltage range		
DC 24 V $\pm$ 1 %		
Max. output current		
250 mA		
Max. line regulation		
0.5 % (from DC 8-16 V, full load)		
Max. load regulation		
0.5 % (no load to full load, DC 12 V in)		
Efficiency		
83 % typ. (DC 12 V in, full load)		
Output noise and ripple		
40 mV P-P max (at bandwidth 20 MHz)		
Switching frequency		
1.2 MHz (nominal)		
Isolation		
Non-isolated		
Input polarity protection		
Yes		
Minimum load requirements		
None		
Max. Transient recovery time		
50 μ s (Recovery time for a step load change of 25 % to 75 % of full load)		
Max. start-up time		
8 ms (DC 12 V in, full load)		
Max. hold-up time		
0.5 ms (DC 12 V in, full load)		
Input protection		
TVS Diode		
Output short circuit protection		
Fused		
Temperature coefficient		
100 ppm/ $^{\circ}$ C		
Ambient operating temperature		
-25 $^{\circ}$ C...+40 $^{\circ}$ C		
Terminal block width		
6 mm / 0.236 in		
Wire connection		
CAGE CLAMP®		
0.08-2.5 mm ² / AWG 28-14		
Stripped length		
5-6 mm / 0.22 in		