

## **TECHNICAL DATASHEET #TDAX080160** DC/DC 24 V - 140 V 230 W Axiomatic P/N: AX080160

## Features:

- Powers devices at 140Vdc up to 1.65 Amps (230 W)
- On/Off control with low power standby
- Parallel, redundant capability
- Isolation
- 24Vdc nominal voltage input
- Reverse polarity protection
- Inrush current limited
- Operational from -20 to 70°C
- IP20 protection
- DIN rail mount
- Approvals (cURus, CB Marking)

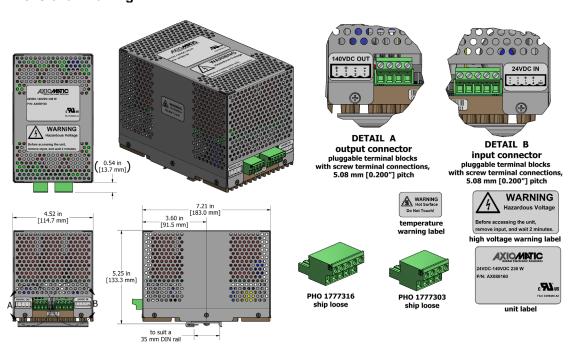


# Ordering Part Number: Axiomatic P/N: AX080160

**Technical Specifications:**Specifications are indicative and subject to change. Actual performance will vary depending on the application and operating conditions. Users should satisfy themselves that the product is suitable for use in the intended application. All our products carry a limited warranty against defects in material and workmanship. Please refer to our Warranty, Application Approvals/Limitations and Return Materials Process as described on https://www.axiomatic.com/service/.

Input Specifications		Output Specifications	
Power Source	24 Vdc nominal	Nameplate Rating (Output Power)	230 Watts nominal
Operating Voltage Range	22-32 Vdc continuous	Output Current	1.65 Amps continuous Current limited to 2.5A
			Transients: 10A 0.6Sec, 20A 0.06Sec, Output min. 90Vdc
Reverse Voltage and Inrush Current Protection	Provided	Output Voltage	140Vdc ± 7% 0.A to 1.65A Setting, 140Vdc at 0.5A
		Line Regulation	± 1% max
Over-voltage Shutdown	33 Vdc typical	Output Voltage Ripple	1% maximum
Under-voltage Shutdown	16 Vdc typical	Turn-on Time (with full load)	3.5 Sec at 22 to 32Vdc input and 0.5 A resistive load
		Output Discharge	15Sec with 0.5A load 120Sec with 0.A load
		Over-voltage Shutdown and Latched	155V typical
		Short Circuit Current	Protection provided Hiccup Self-recovery

### **Dimensional Drawing**



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General Specifications			
Isolation	500Vdc	Electrical Connections:	
	Input, output and chassis are isolated.	Refer to the dimensional drawing for location.	
Average Efficiency	92% typical	- INPUT: One 5-pin male header Wurth Electronik Series 313	
Operating	-20 to 70°C	P/N: 691313510005	
Temperature	(-4 to 158°F)		
Storage	-20 to 85°C		
Temperature	(-4 to 185°F)		
Humidity	5-95% relative humidity (non-condensing)		
Protection rating	IP20	1 2 3 4 NC	
Shock	IEC 60068-2-27:2008-02 15g		
Vibration	IEC-60068-2-6:2007-12 2g peak (Sine)	Mates with pluggable terminal blocks with screw terminal	
Compliance	UL Recognition (cURus)	connections, 5.08 mm [0.200"] pitch (supplied with WIELAND 25.340.3553.0, WIELAND 5-PIN PLUG 5.08MM).	
	UL 60950-1, 2nd Edition,	Alternative mating plug: PHO 1777316 FRONT-MSTB 2,5/ 5-ST-5,08	
	2011-12-19 (Information	5,06	
	Technology Equipment -	Use 12 AWG wires.	
	Safety - Part 1: General		
	Requirements)	WARNING: High Voltage Inside. Remove input power and wait two minutes before accessing power supply.	
	CAN/CSA C22.2 No. 60950-		
	1-07, 2nd Edition, 2011-12	OUTPUT: One 4-pin male header Wurth Electronik Series 313	
	(Information Technology	P/N: 691313510004	
	Equipment - Safety - Part 1:		
	General Requirements)		
	CB marking		
Enclosure and	DIN rail, T35	1 <b>.</b>	
Dimensions	Aluminum enclosure		
	Clear satin MIL-A-8625 anodizing		
	4.52 x 7.40 x 5.25 inches		
	114.7 x 187.9 x 133.3 mm		
\\/a:ala4	(W x L x H including DIN rail)	-	
Weight	5.90 lb. (2.676 kg)	Mates with pluggable terminal blocks with screw terminal	
		connections, 5.08 mm [0.200"] pitch (supplied with WIELAND	
		25.340.3453.0, WIELAND 4-PIN PLUG 5.08MM).	
		Alternative mating plug: PHO 1777303 FRONT-MSTB 2,5/ 4-ST-5,08	
		0,00	
		Use 12 AWG wires.	

Form: TDAX080160-06/21/23

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