

DATA SHEET

vibro-meter®

APF195 24 V_{DC} 0.26 A power supply



ERC

KEY FEATURES AND BENEFITS

- From the vibro-meter® product line
- Input: 9.4 to 36.0 V_{DC}
- Output: Two 24 V_{DC} 0.13 A
- DIN-rail mounting

APPLICATIONS

- Outputs can be connected in parallel for increased output current
- Ideal for use with machinery monitoring systems

DESCRIPTION

The APF195 is a 24 V_{DC} 0.26 A power supply for use in industrial applications such as machinery monitoring.

A single output of an APF195 power supply can be used to power any equipment requiring 24 V_{DC} up to 0.13 A (3.1 W), for example, external hardware such as GS112x galvanic separation units. Both outputs of an APF195 can be connected in parallel in order to increase performance and provide up to 0.26 A (6.2 W).

The APF195 is DIN-rail mounting and is typically installed in a cubicle containing other equipment such as VM600^{Mk2}/VM600 and/or VibroSmart® monitoring systems.

For specific applications, contact your local Meggitt representative.



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SPECIFICATIONS

Electrical

Input voltage	: 9.4 to 36.0 V _{DC}
Efficiency	: >80% typ.
Nominal output	
• Voltage	: 2 × 24 V _{DC}
• Current	: 2 × 0.13 A
• Power	: 6.2 W
Line regulation	: ±1%
Load regulation	: ±3% (for 10 to 100% load variation)
Ripple (output voltage noise)	: <50 mV _{PK-PK} typ. <240 mV _{PK-PK} max.
Parallel connection	: The two outputs can be connected in parallel in order to provide increased output current Note: External diodes are not required.
Protection against permanent short-circuit (current limit)	: Yes
Protection against output over-voltage (Zener diodes)	: Yes. Note: The main purpose of this feature is to prevent the APF195 from generating an over-voltage. It is not designed to withstand external over-voltages applied to the outputs.

Note:

2 × APF195 power supplies operating in parallel are required to supply power to 2 × GSI127 galvanic separation units. This is necessary in order to meet the transient inrush current demand of the 2 × GSI127 units when they are turned on. (A single APF195 power supply would enter its short-circuit (current limit) protection mode.) In other words, 1 × APF195 power supply should be used to supply power to 1 × GSI127 galvanic separation unit or 2 × GSI124/GSI122 galvanic separation units.

Environmental

Temperature	: -40 to 85°C (-40 to 185°F)
Humidity	: <90% RH (non-condensing)

Approvals

Conformity	: EAC marking, Eurasian Customs Union (EACU) certificate/declaration of conformity
Electromagnetic compatibility	: IEC/EN 61000-4. TR CU 020/2011.
Electrical safety	: IEC/EN 60950 and UL/CSA 60950. TR CU 004/2011.

Physical

Mounting	: Mounts on a TH 35 DIN rail (according to EN 50022 / IEC 60715). For example, TH 35-15 or TH 35-7.5.
Dimensions	: 50 × 72 × 97 mm (1.97 × 2.83 × 3.82 in)

ORDERING INFORMATION

To order please specify

Type	Designation	Ordering number (PNR)
APF195	24 V _{DC} 0.26 A power supply	204-195-000-021

RELATED PRODUCTS

APF196	24 V _{DC} 3 A power supply	Refer to corresponding data sheet
APF197	24 V _{DC} 5 A power supply	Refer to corresponding data sheet
APF198	24 V _{DC} 7.5 A power supply	Refer to corresponding data sheet
APF200	24 V _{DC} 3.75 A power supply with Ex certification	Refer to corresponding data sheet
APF201	24 V _{DC} 7.5 A power supply with Ex certification	Refer to corresponding data sheet
APF202	24 V _{DC} 5 A power supply with Ex certification	Refer to corresponding data sheet
ASPS	VM600 ^{Mk2} /VM600 auxiliary sensor power supply	Refer to corresponding data sheet

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