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Note to editors: Link to high res photo and picture caption follow news release text.

Beckhoff Offers New Line of Compact, Universal 24/48 V DC Power Supplies

The scalable PS device series offers optimized convection cooling, long service life, reliability and high efficiency

SAVAGE, Minnesota, December 3, 2020 – Beckhoff is launching the PS power supply series, initially comprising 18 new devices. The 1- and 3-phase DIN-rail-mountable power supply units are very compact and supply output currents from 2.5 to 40 A. Ideal for industrial applications, the temperature-optimized device design of these power supplies ensures excellent convection cooling, long service life, maximum reliability and up to 96.3% efficiency. The versatile PS series features a wide-range input and comes with a number of different technical approvals, making it suitable for worldwide and universal use in 24 and 48 V DC applications.

With the PS device series, Beckhoff offers high-quality power supplies for almost all applications in both the 24 and 48 V DC range, including motion control applications with stringent requirements for handling back EMF (electromagnetic force). Excellent convection, minimized power loss and high efficiency of up to 96.3% optimize the service life and reliability of the devices. The peak power capability of up to 150% makes it possible to provide up to 1.44 kW output power for short periods of time. Along with a space-saving design and high immunity to transients and overvoltages, this allows efficient and cost-effective use even in harsh industrial environments. In addition, the power supplies can switch off circuit breakers quickly and accurately through a precise tripping function to avoid unnecessary machine downtime.

The power supply portfolio includes the following device series:

- PS1000 with six 1-phase power supply units for smaller and cost-sensitive applications (24 V DC, 2.5/3.8/5/10/20 A, efficiency up to 95.2%)
- PS2000 with five 1- and 3-phase power supply units for standard applications (24/48 V DC, 5/10/20 A; efficiency up to 96.3%, 120% permanent output power)
- PS3000 with seven 1- and 3-phase power supply units for demanding applications (24/48 V DC, 10/20/40 A, efficiency up to 95.4%, 150% output power for 4 seconds)

The UL-approved power supplies are also ideal for use in highly specialized industries and offer approvals according to SEMI 47 (semiconductor industry), DNV GL (shipbuilding) and others. They can also be used in hazardous areas requiring explosion protection (Class I Division 2, IECEx and ATEX).

Optimized design manages heat and back EMF

The devices are specifically designed with outstanding convection cooling properties in mind. The minimized number of components allows sufficient space for air convection. In addition, components that are particularly temperature-sensitive and prone to rapid aging are placed at the bottom of the unit, i.e. as close as possible to incoming cool air. This temperature-optimized design means that the components experience less thermal stress, thus achieving a long service life. In addition, components that are subject to less stress retain their technical characteristics for longer, which further minimizes the influence of external heat. All of these features also improve reliability.

Due to the high tolerance to electrical feedback, the power supply units are ideally suited for motion applications. They also have exceptional peak power capability to operate motors, capacitors and other loads that require more power at start-up than in the nominal range. In most cases, the power

supplies from a lower and more cost-effective power class in the portfolio will be adequate for this purpose.

PS Power Supplies

Link to high res image:

https://download.beckhoff.com/download/press/2020/NorthAmerica/Beckhoff_PS-Power-Supplies.zip

Press picture:

Picture caption:

The new PS device series of 24/48 V power supplies from Beckhoff covers a wide range of applications, including demanding motion control applications.

Beckhoff Automation is a provider of advanced and open automation solutions based upon proven technologies for customers to implement high performance control systems faster and at a lower overall cost than traditional PLC and motion control systems. Beckhoff's "New Automation Technology" product range includes PC-based control, Industrial PCs, automation controllers, operator interfaces, I/O, servo drives and motors. With representation in more than 60 countries, Beckhoff is well positioned to provide global sales and service to its customers. Beckhoff sales and service are handled directly, with no intermediaries involved for exceptional customer service and consultation.

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Send questions regarding "Beckhoff PS Power Supplies" to:

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