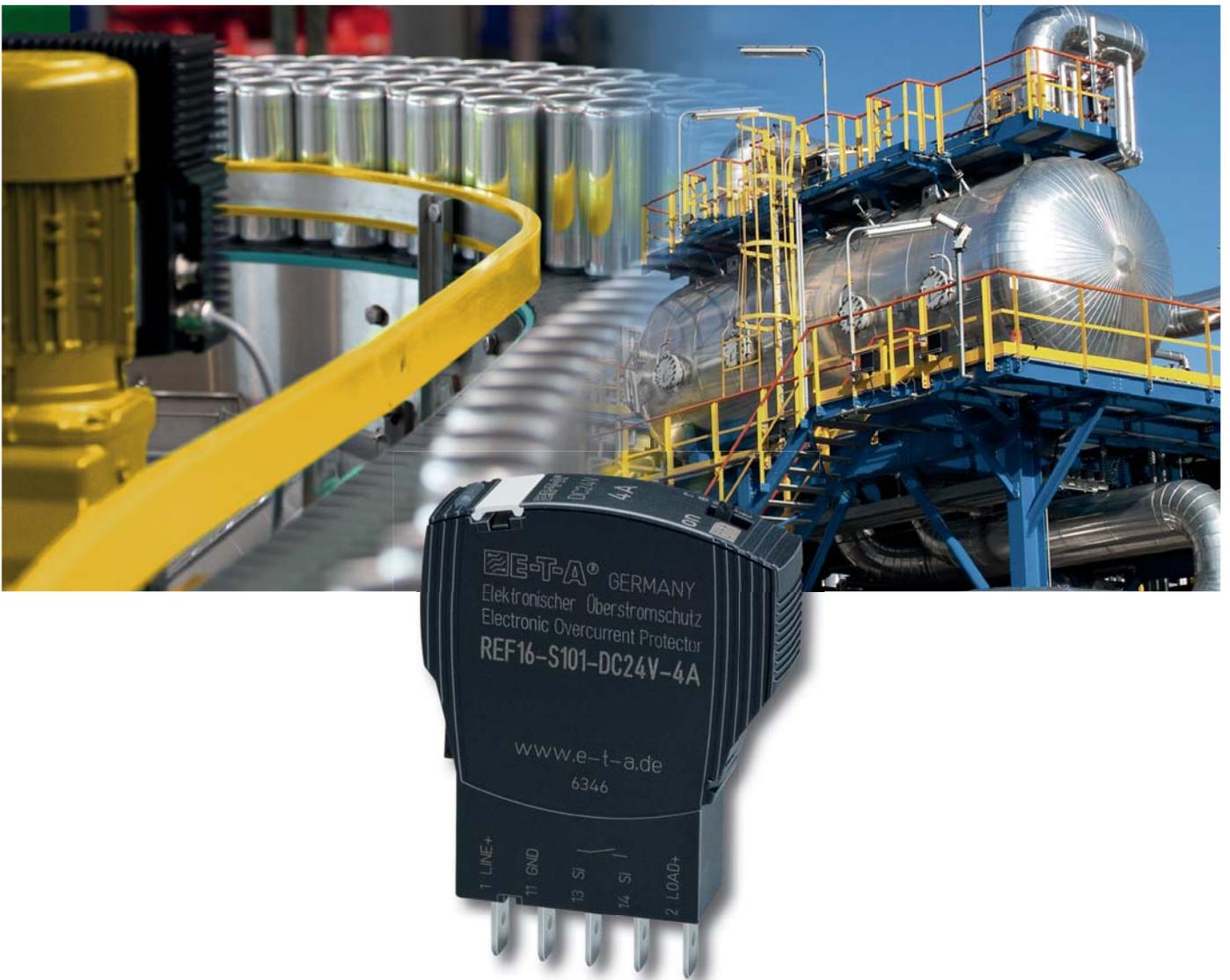


Electronic Overcurrent Protector REF16-S Plug-in type – compact and versatile



Technical information

Electronic Overcurrent Protector REF16-S

In the automation industry, it is very important to consistently reduce machine downtime and specify devices that are easy to install and save control cabinet space. E-T-A's new REF16-S electronic overcurrent protector, measuring only 12.5 mm wide by 70 mm deep, requires very little space in control cabinets and provides trusted overcurrent protection.

It features easy to use plug-in type terminals and was specifically designed for the 80plus (with screwless PT terminals) and 81plus (with screw terminals) side-by-side mountable sockets for direct

DIN rail mounting. The sockets provide quick and straightforward power and signal distribution via plug-in type jumpers and busbars. When the REF16-S is plugged in, it firmly latches into the socket. It also features coding pins, following the »key-lock principle«, which help users combine the correct protector and socket together. Dimensions are in accordance with the standard DIN 43880 for the installation of built-in units.

The REF16-S provides selective load protection and exclusively disconnects the faulty path in the load circuit in the event

of an overload or short circuit without negatively impacting the DC 24 V supply. Voltage dips are prevented if only one load circuit is faulty, preventing failure of all loads connected to the switch-mode power supply. The REF16-S typically limits the short circuit current to 1.25 times rated current and disconnects the faulty circuit after no more than 800 ms. Normal inrush or current peaks are tolerated so high capacitive loads up to 20,000 µF are not a problem. In the event of an overload, the integral power MOSFET will promptly disconnect at 1.25 times rated current.

Technische Daten

Operating voltage	DC 24 V
Current rating range	fixed ratings: 1 A, 2 A, 3 A, 4 A, 6 A
Trip characteristic	electronic disconnection with integral current limitation at typically 1.25 times rated current
Overload and short circuit disconnection	typically 1.25 times rated current
Switch-off period	< 800 ms
Fail-safe function	integral protection element, adjusted to current rating
Visual status indication	multi-colour LED (green, orange, red)
Signal output (optional)	- signal output F (auxiliary contact) - status output SF (electronic)
Signal input (optional)	- remote reset - remote ON/OFF
Switch-on delay t_{Start}	typically 2 ms
Manual operation	ON/OFF/RESET button
Approvals	UL 2367, UL 508, CSA 22.2

Features and benefits

- Selective overcurrent disconnection at 1.25 I_N, even with long load lines or small cable cross sections
- Protection of capacitive loads up to 20,000 µF
- Signalling via LED and signal output
- Remotely controllable: RESET or ON/OFF
- Space-saving design: 12.5 x 90 x 70 mm (including socket)
- Easy to use plug-in type terminals for ease of installation
- Integral retaining clip ensures a tight fit in the socket
- Coding pins provide a clear correlation between protector and socket



Electronic Overcurrent Protector type REF16-S on socket 80 plus



Electronic Overcurrent Protector type REF16-S on socket 81 plus



ENGINEERING TECHNOLOGY

E-T-A Elektrotechnische Apparate GmbH
Industriestraße 2-8 · 90518 ALTDORF
GERMANY
Phone: +49 9187 10-0 · Fax +49 9187 10-397
E-Mail: info@e-t-a.de · www.e-t-a.de