

# Thermal-magnetic Circuit Breaker 2216-S Plug-in type – compact and versatile



# Technical information

## Thermal-magnetic Circuit Breaker 2216-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 2216-S thermal-magnetic circuit breaker, 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 2216-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 breaker and socket together. Dimensions are in accordance with the standard DIN 43880 for the installation of built-in units.

Three different trip characteristics are available allowing exact specification of the 2216-S based on the size of the loads and lines being protected. The ultra-fast F1 curve is meant for DC circuits and corresponds to the A curve in circuit protection. The fast trip curve F2 and the medium-delayed trip curve M1 were designed for both AC and DC applications. The F2 curve corresponds to the B characteristic and the M1 curve corresponds to the C characteristic to IEC/EN 60898/1 (DIN VDE 0641-11).

### Technical data

Rated voltage	AC 240 V (50/60Hz); DC 50 V (single pole, DC 80 V (double pole)		
Current rating range	0,5...16 A		
Auxiliary contact	change-over (optional)		
Number of poles	1-pole and 2-pole		
Rupture capacity $I_{cn}$	AC 240 V	1-pole	300 A
	DC 50 V	1-pole	600A
	AC 240 V	2-pole	400A
	DC 80 V	2-pole	600A
Typical life	6000 cycles at 1 x rated current 3000 cycles at 1 x rated current (DC 80 V, 2-pole)		
Approvals	IEC EN 60934, UL 1077 and UL 508		

### Features and benefits

- Reliable overcurrent protection for AC and DC control circuits
- Three different trip characteristics for exact specification to the load
- Space-saving design: 12.5 x 90 x 70 mm (including socket)
- Easy to use plug-in type terminals for flexible installation
- Coding pins provide a clear correlation between breaker and socket
- Integral retaining clip ensures a tight fit in the socket
- International approvals for global use



Thermal-magnetic circuit breaker type 2216-S on socket 80 plus



Thermal-magnetic circuit breaker type 2216-S on socket 81 plus



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