

POWER SAFETY FOR UPS OPERATION

EBU - Electronic Breaker Unit for AC 230 V



POWER SAFETY FOR UPS OPERATION EBU10-T – EBU - Electronic Breaker Unit for AC 230 V

In the event of a short circuit, uninterruptible power supplies only provide limited current, which is not sufficient to trip a conventional thermal-magnetic overcurrent protection. This means, that in the event of a failure, the entire UPS system will be switched off.

The mechatronic EBU10-T circuit breaker provides selective overcurrent protection for UPS systems with AC 230 V. The unit includes a miniature circuit protector equipped with measuring and analysis electronics for short circuit detection, approved for short circuit disconnections up to 10 kA.



INCREASED SYSTEM AVAILABILITY

through selective protection

The EBU10-T can be adjusted to the capability of the respective UPS unit and the actual load conditions via two selection switches, providing a reliable trip performance in the event of a failure.

Only the faulty load path will be disconnected, while all other supply paths will remain unaffected. The EBU unit tolerates high cut-in currents that occur during switch-on operations.

INCREASED SYSTEM AVAILABILITY THROUGH EFFECTIVE PROTECTION





REDUCED TOTAL COSTS THANKS TO A 1/3 MORE EFFICIENT DESIGN

UPS systems can be designed by 1/3 smaller thanks to the EBU10-T, reducing annual energy costs by approx. 40 %. The smaller system also requires less space.

SIMPLE PLANNING Simple planning thanks to an adjustable overcurrent protection



EBU10-T Connection and operating elements

The product is available with the typical MCB ratings of 4 A, 6 A, 10 A and 16 A, with B and C characteristics, and is directly operated at the output of the respective UPS.





The 2-pole version of the EBU guarantees reliable all-pole disconnection where necessary or required, e.g. in unearthed systems.





Technical data	
Rated voltage	AC 230 V (50 Hz)
Current ratings	Current 4 A, 6 A, 10 A, 16 A (MCBs)
Characteristic curve	B (6 A16 A) / C (4 A16 A)
Trip method	Mechatronic
Number of poles	1- and 2-pole
Electronics setting	Rated current I_N UPS (selection switch), rated current I_N Load (selection switch)
Signalling	Auxiliary contact, change-over, LED on the device
Connection technology	Screw terminal (power supply); PT terminals (load output and signalling)
Dimensions (W x H x D):	54 x 95 x 72 (1-pole), 72 x 95 x 72 (2-pole)

E-T-A Elektrotechnische Apparate GmbH Industriestraße 2 – 8 90518 Altdorf Phone +49 9187 10 -0 Fax +49 9187 10-397 Email: info@e-t-a.de