



i EP9576-1032 | Brake chopper box

The EP9576-1032 EtherCAT Box contains an integrated brake resistor for the dissipation of drive-related overvoltages. The brake resistor converts excess energy, generated when braking, motors into heat. The EP9576-1032 can be used in conjunction with the EP70xx stepper motor modules, the EP7211 servo motor modules or the EP7342 DC motor output stage. The EP9576 features internal diagnostic functions. Warnings or error messages, e.g. on reaching/exceeding the permissible limit temperature values are signalled via EtherCAT.

Technical data	EP9576-1032
Technology	brake chopper
Task within EtherCAT system	brake resistor for the dissipation of drive-related overvoltages
Nominal voltage	arbitrary up to 72 V
Ripple current (max.)	10 A
Internal resistance	< 5 mΩ
Chopper voltage	adjustable
Integrated brake resistor	75 Ω, 60 W
Overvoltage control range	typ. 1 V, parameterisable by CoE data
Braking resistor clock rate	load-dependent, max. 100 μs, 2-point control
Electrical isolation	500 V
Diagnostics	temperature on board, over-/undervoltage
Special features	adjustable threshold
Operating/storage temperature	-25...+60 °C/-40...+85 °C
Vibration/shock resistance	conforms to EN 60068-2-6/EN 60068-2-27
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4
Protect. class/installation pos.	IP 65/66/67 (conforms to EN 60529)/variable
Approvals/markings	CE, UL in preparation

Related products	
EL9576	brake chopper terminal, 72 V, 155 μF
EJ9576	EtherCAT plug-in module, brake chopper module

i Product announcement	estimated market release 3rd quarter 2019
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