

ACR120/Ks - Compact and powerful 150 W railway converter!



ACR120/Ks

Autronic presents the fully encapsulated ACR120/Ks for chassis mounting. The very compact and powerful 150 W DC/DC converter for railway applications covers the nominal input voltages of 24 V or 110 V with 14 V - 36 V and 66 V - 154 V in a 4:1 ratio according to EN 50155.

The plug-and-play converter (dimensions: 113 mm x 46 mm x 35 mm) fulfils the railway-specific requirements regarding temperature, shock, vibration, moist heat, as well as the EMC according to EN 50121-3-2, no additional components are required to be railway-compliant. The converter has an integrated hold up timeing of 10 ms (class S2), which makes the DC/DC converter special. Due to the high efficiency of 93 %, the full output power is available over the complete input voltage and temperature range from -40 °C to +85 °C according to OT4, ST1 and ST2, without any derating.

The integrated inrush current limiting as well as reverse polarity, overvoltage and overtemperature protection facilitate the design-in of the converter. The converters can be connected in parallel and are also open-circuit proof and permanently short-circuit proof.

The fire and smoke requirement according to EN 45545-2 (Hazard Level 3, R24/R25) is met.

In addition to the fully encapsulated version, power-reduced open-frame versions (100 W) are also available. Currently, three output voltages are available (12 V, 24 V and 48 V).

Further output voltages are available on request.

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