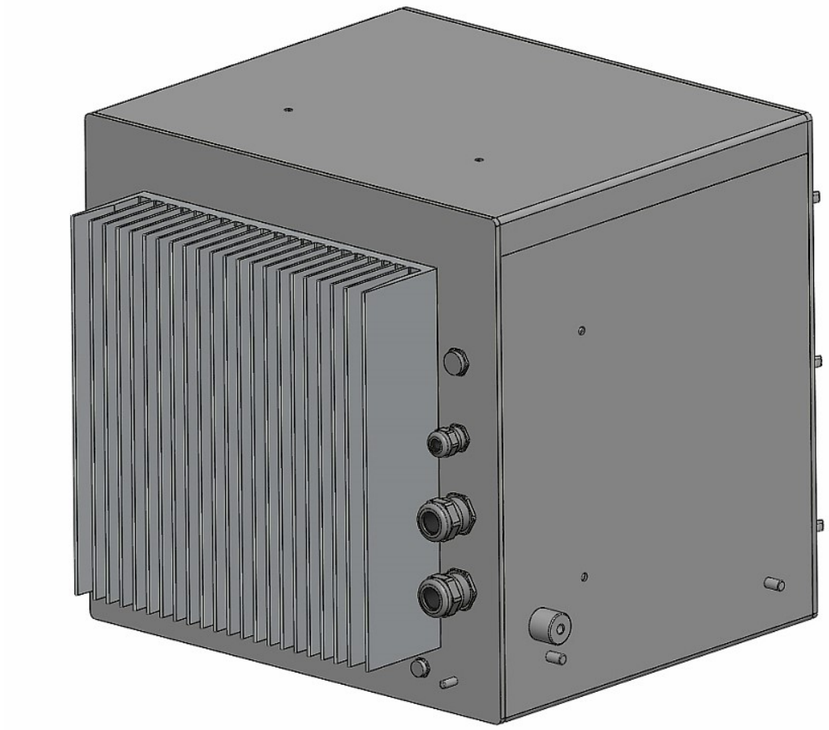
ENI-PP100/DBC Auxiliary rectifier

APPLICATION

The ENI-PP100/DBC rectifier is powered by an auxiliary generator and is designed to power the auxiliary circuits of shunting and similar diesel-electric locomotives. The part converting the AC voltage to DC is made as a three-phase 6D bridge built on high-current two-diode power modules and built on a high-performance heat sink. Rectifier diodes are protected by RC circuits against commutation overvoltages. The power track on the heatsink is cooled by ambient air. Bimetallic sensors provide protection against an emergency overheating of the heat sink. After the radiator reaches the emergency activation temperature of the sensor, i.e. 80°C, the contacts open, which is the signal given to the vehicle circuits, which causes disconnection of the input three-phase voltage supplying the rectifier.



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SPECIFICATION

TYPE	ENI-PP100/DBC
Supply voltage	3 x 400 V_{AC} ± 10%
Supply voltage frequency	50 Hz ± 10%
Control supply voltage	24 V_{DC} ± 30%
Rated output current	100 A_{DC}
Built-in rectifier heatsink temperature sensors	
Dimensions without connection grommets (length x width x height)	490 x 451 x 402 mm
Cooling	Neutral
Ambient temperature range	-30ºC ÷ +40ºC

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