



GRU O.N.E

Ground Return Unit
Original New Economics and Equivalent



HIGHLIGHT

The GRU protects bearings of diesel and electrical locomotives and trains against arcing reducing wear and maintenance costs.

Safety device to protect passengers from over voltage

Ensures ETCS

Protects axle bearings

CUSTOMER BENEFITS

Light device ~2kg (excluding contact disc)

Adapted for a complete range of applications

Longer operational performance

Maintenance-time reduction

Maintenance-cost reduction



30%

Saved on axle maintenance per year on EMUs / DMUs

GENERATING SAFETY IN TRAINS

The GRU reverses the current in the vehicle body to the track, bypassing the axle-roller bearings. There are diverse customized solutions in our portfolio. Dependable upon the mounting solution, axial and radial GRUs are available.

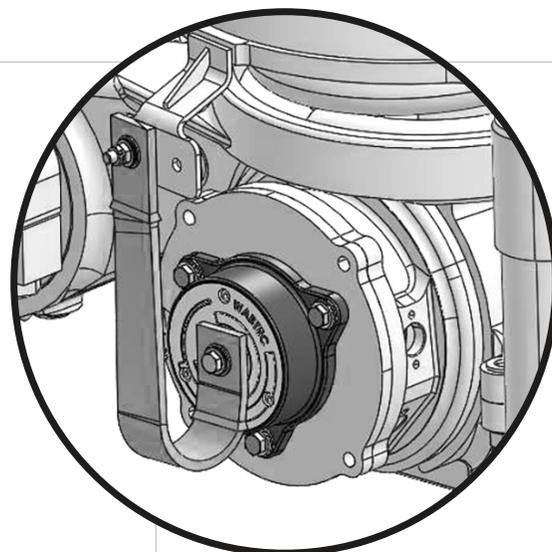
CONFORM TO

EN 50153

EN 61373

EN 60529

EN 45545-2

**GRU CHARACTERISTICS**

Dimensions	Ø200 x 100 mm <i>(can be adapted)</i>
I_{eff}	600 A
I_{max}	Up to 900 A during 5
Number carbon brushes	3 brushes 40 x 20 mm
Protection class	IP66 according EN 60529
Fire protection class	R24 HL3 according EN 45545-2
Contact resistance	<15mΩ according EN 50153

**CONTACT**

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