

DC/DC converter



Identification	Type	NGE-6122
	Part-No.	716122

Use/Area of application	
Description	DC/DC converter for rail applications.

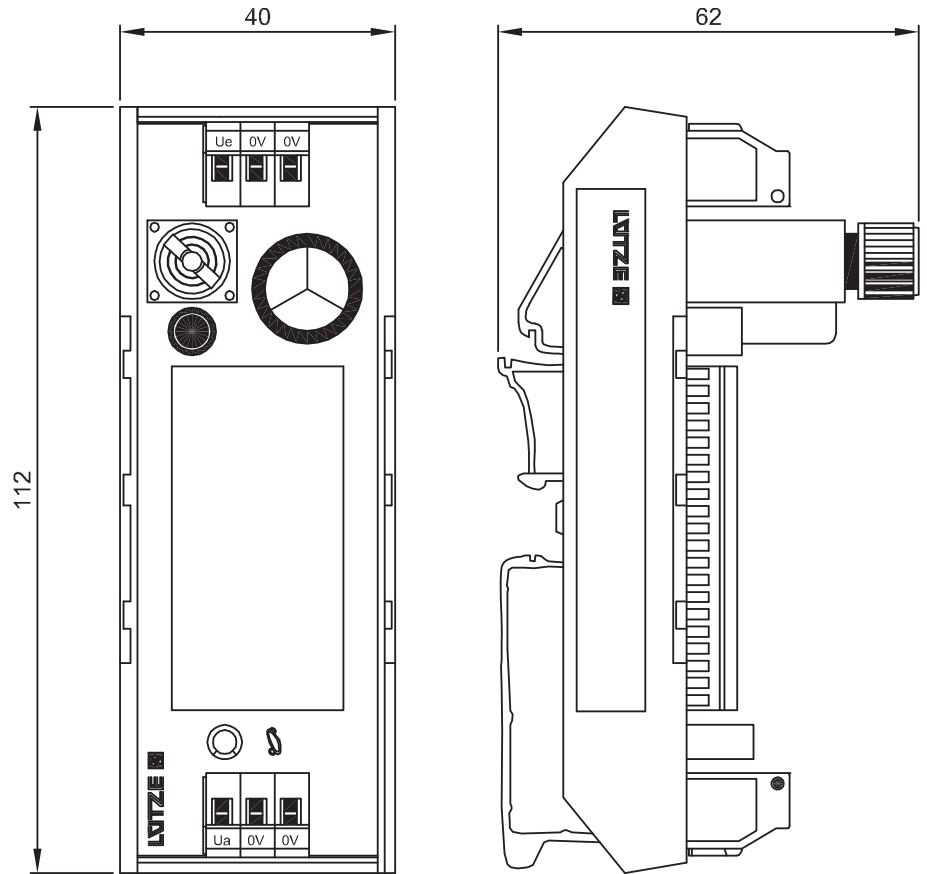
Technical data	
Nominal voltage U_N	DC 110 V
Voltage range	DC 77.0 – 137.5 V
Efficiency	84 %
Output voltage	U_a DC 24 V
Output voltage - tolerance	± 15 %
Output current	250 mA
Fuse	0.63 A quick-acting

General	
Termination	spring terminal: single stranded 0.08 – 2.5 mm ² ; fine stranded 0.08 – 2.5 mm ²
Operation temperature range	-25 – 70 °C
Storage temperature range	-25 – 80 °C
Dimensions (w x h x d)	40.0x112.0x62.0
Weight (kg/piece)	0.095 (kg/piece)
Standards	Electronic equipment on railway vehicles: EN 50155 Electromagnetic compatibility: EN 50121-3-2 Insulation coordination: EN 50124-1 Vibrations and shocks: EN50155/61373
Efficiency	84 %

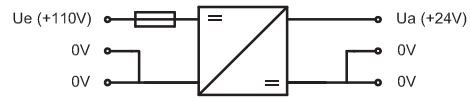
The standard applicable to this product is dependent on the version available for development. The standards applicable to this product are available on request.

DC/DC converter

Dimensions



Circuit diagram



DC/DC converter

Identification	Type	NGE-6140
	Part-No.	716140

Use/Area of application

Description	DC/DC converter for rail applications.
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Technical data

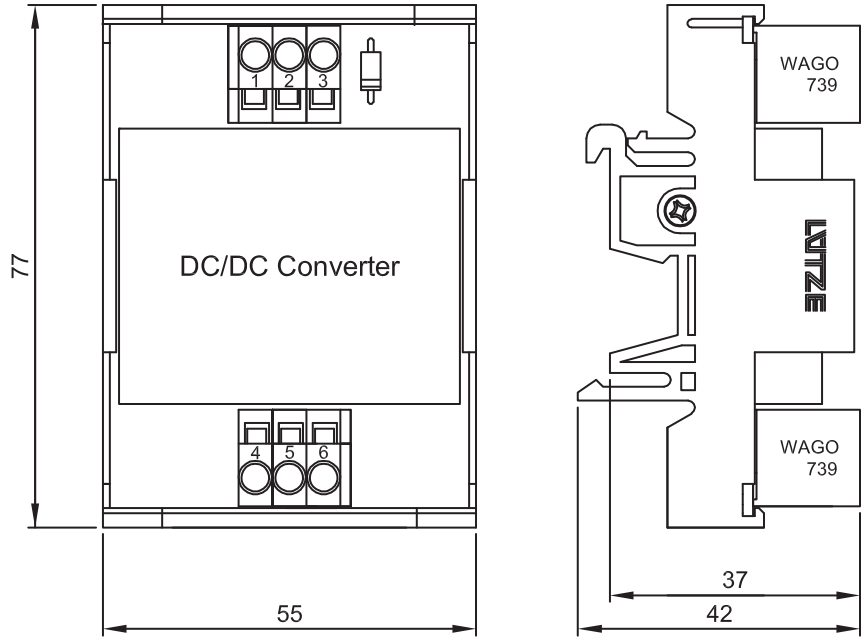
Nominal voltage U_N	DC 24 V
Voltage range	DC 20.0 – 72.0 V
Efficiency	84 %
Output voltage	U_a DC 110 V
Output voltage - tolerance	± 3 %
Output current	140 mA

General

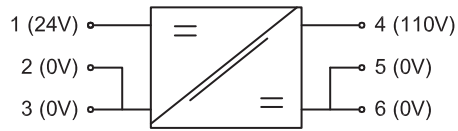
Termination	spring terminal: single stranded 0.08 – 2.5 mm ² ; fine stranded 0.08 – 2.5 mm ²
Operation temperature range	-25 – 70 °C
Storage temperature range	-25 – 80 °C
Dimensions (w x h x d)	55.0x77.0x42.0
Weight (kg/piece)	0.110 (kg/piece)
Standards	Electronic equipment on railway vehicles: EN 50155 Electromagnetic compatibility: EN 50121-3-2 Insulation coordination: EN 50124-1 Vibrations and shocks: EN50155/61373
Efficiency	84 %

DC/DC converter

Dimensions



Circuit diagram



DC/DC converter



Identification	Type	NG-2094
	Part-No.	762094
Use/Area of application		
Description	The converter operating voltage is DC 72 V / DC 110 V, the voltage area corresponds to Rail Standard EN 50155. The output voltage is DC 24 V \pm 10%.	
Technical data		
Voltage range	DC 50.4 – 137.5 V	
Input voltage	DC 72 V / DC 110 V	
Output voltage	DC 24 V \pm 10 %	
Output current	300 mA	
Protection device	Reverse diode / Suppressor diode	
Status Indication	LED yellow	
Protection device output	Short-circuit and overload protection Internal overtemperature protection with automatic restart	
Relay		
Control voltage U_S	DC 24 V \pm 10 %	
Control current	11 mA	
Output voltage	min. DC 17 V / max. DC 250 V	
Output current	min. 5 mA / max. 200 mA	
Protection device Input	Varistor	
Clearance/creep. dist. (contol/load side)	> 5.5 mm	
Safe isolation	between control and load sides: yes	
Contact type	change over contact	
Contact material	AgSnO	
General		
Termination	Spring terminal 0.08–2.5 mm ²	
Operation temperature range	-25 – 70 °C	
Storage temperature range	-25 – 85 °C	

DC/DC converter

Dimensions (w × h × d)	22.5×79.0×84.0
Weight (kg/piece)	0.760 (kg/piece)
Housing material	PPE
Field installation	DIN rail mounting
Installation postition	Optional
EMC tests	Interference resistance EN 50121-3-2:2000

Basic standard	Type	Level	Criteria
EN 61000-4-4	rapid transients/bursts	2kV ±	A
EN 50155	Surge voltages	2 kV 1,2 / 50 µs 12 Ω	B
EN 61000-4-6	Line-conducted high frequency transients	10 Vrms 150 kHz – 80 Mhz 1 kHz 80 % AM 150 Ω	A
EN 61000-4-3	High frequency field	20 V/m 80 Mhz – 1 GHz 1 kHz, 80 % AM	A
EN 50204	High frequency field	20 V/m 895,900, 905 Mhz 200 Hz, 50 % PM	A

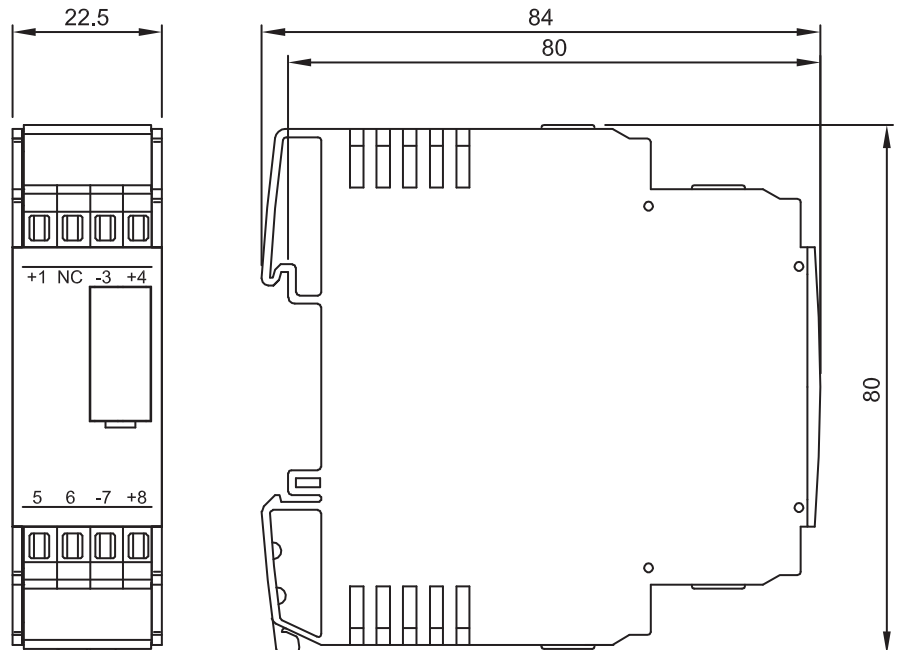
Standards

VDE V 0848-3-1 Safety in Electrical, Magnetic and Electromagnetic Fields
 Electronic equipment on railway vehicles: EN 50155
 Electromagnetic compatibility: EN 50121-3-2
 Insulation coordination: EN 50124-1
 Vibrations and shocks: EN50155/61373

The standard applicable to this product is dependent on the version available for development. The standards applicable to this product are available on request.

- Galvanic isolation I/O
- Form
- Protection class
- Dimensions

no
 22.5 mm µCompact
 IP 20



DC/DC converter

Circuit diagram

