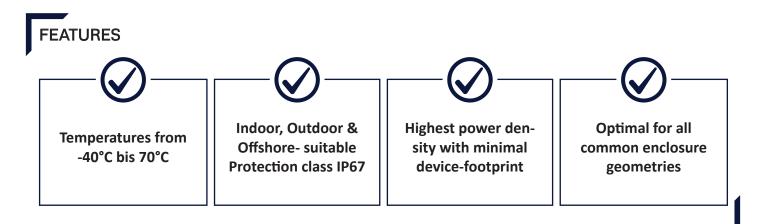


# Peltier

### SWITCH CABINET COOLER Series PROTEMP

# **PROTEMP 120 M**





#### DATA SHEET CONTENT

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#### **DR. NEUMANN**

### SWITCH CABINET COOLER Series PROTEMP

### PROTEMP 120 M | AA-120M-24-NN4-XXX-DNPT

#### TECHNICAL SPECIFICATION

#### General data

Dimensions [HxWxD]	320 x 130 x 167 mm	
Weight	ca. 4,8 kg	
Material outer side (Warm-side)	1.4404 -V4A, optionally powder coated in RAL7035	
Life expectancy	40.000 h (L10 lifespan at 60°C operational temperature)	
Supply voltage	24 V	
Input power	128 W	
Noise emission	53 dB	
Max. input current	7,5 A	
Rated current	5,3 A	
Operating temperature range	-40 °C bis +70 °C	
Storage temperature range	-40 °C bis +70 °C	
Recommended pre-fuse	TBD	

#### Cooling and tempering

Cooling capacity (L35 / L35)	121 W
Heating operation possible	yes
Heating capacity	251 W

#### IP-protection and safety features

Protection class outer side (warm-side)	IP67
Protection class inner side (cold-side)	IP20 ( inner fans with protection class IP55 )
Temperature switch, warm-side	Bimetal switch NC, 250 V-AC 5A, 24V-DC 10A The Alarm can be configured as safety shut-off or as fault message
Switch-point temperature switch	+ 90°C

#### VARIANTS AND ORDER CODES

#### PROTEMP 120 M | Cabinet cooler

Variant	Art. Nr.	Device-Code	Description
COMPACT - RAL	005963	AA-120M-24-NN4-SCR-DNPT	Small foptprint for optimal integration
OUTDOOR - V4A	005964	AA-120M-24-NN4-SOV-DNPT Robust V4A-outer hood (Offshore-suitable)	
OUTDOOR - RAL	005965	AA-120M-24-NN4-SOR-DNPT	Robust outer hood powder-coated in RAL7035

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### SWITCH CABINET COOLER Series PROTEMP

## Peltier

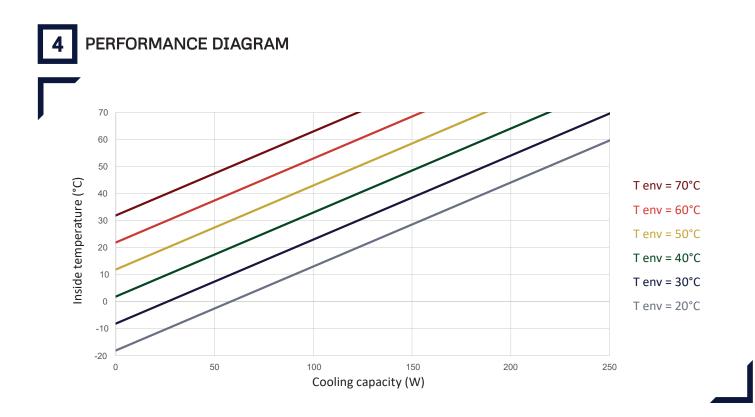
### PROTEMP 120 M | AA-120M-24-NN4-XXX-DNPT

#### CONNECTOR ASSIGNMENT

#### OVERVIEW

Terminal	Terminal assignment	
1	Peltier +	
2	Outer fans +	
3	Inner fans +	
4	Peltier -	
5	Outer fans -	5- Fan Outside (-
6	Inner fans -	6- Fan Inside (-)
7	Alarm	
8	Alarm	8- Thermostat (1

Bridged termianls are equipped with Wago 231-902 brigdges from the factory & must be customized by the customer. The maximum wire diameter is 1,5 mm<sup>2</sup> when bridged and 2.5 mm<sup>2</sup> without bridge.



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320

250



### SWITCH CABINET COOLER Series PROTEMP

130 105

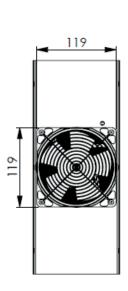
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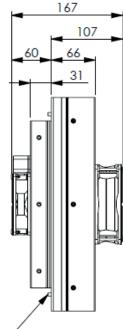
# Peltier

### PROTEMP 120 M | AA-120M-24-NN4-XXX-DNPT

#### DIMENSIONS

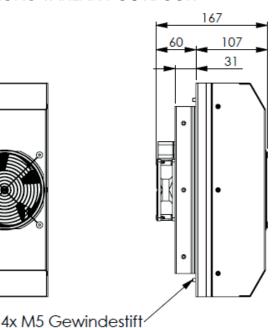
#### MAIN DIMENSIONS VARIANT COMPACT





4x M5 Gewindestift





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### SWITCH CABINET COOLER Series PROTEMP

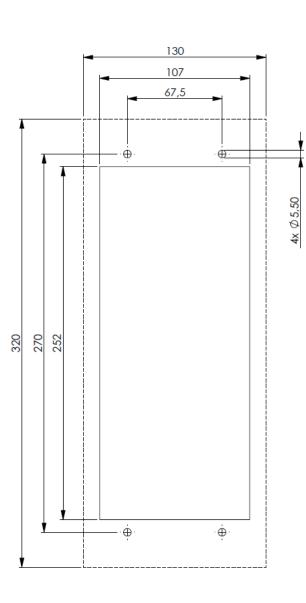
# Peltier

### PROTEMP 120 M | AA-120M-24-NN4-XXX-DNPT



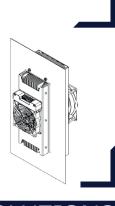
DIMENSIONS





#### NOTES ON INSTALLATION

In principle, the position and mounting orientation of the device are freely selectable. However, when installing the device in a side or rear wall or in the door of the switch cabinet, it is recommended to align the device in such a way that the connection terminals are located at the top. Please also refer to the installation instructions in the operating manual.



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### SWITCH CABINET COOLER Series PROTEMP

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### PROTEMP 120 M | AA-120M-24-NN4-XXX-DNPT

### 6 ACCESSORIES



#### Power supply - 006038

DIN rail power supply NDR-240-24 Manufacturer: MeanWell

Compact DIN rail power supply unit for a reliable power supply to the Peltier housing cooler



#### Power supply - 003938

Screw mount power supply HLG-150H-24 Hersteller: MeanWell

Sealed LED power supply unit with high IP protection, which is also suitable for outdoor installation.



#### Peltier control - 11

Compact Peltier controller SCC-003-A for top-hat rail mounting. Enables heating and cooling operation of the devices via an integrated H-bridge.



#### Thermostat - 004815

Compact top-hat rail thermostat for simple control of the Peltier cooler for use in cooling mode.

Condensate drainage - 005920

The condensate drainage channel

cold side and prevents corrosion

and damage to the housing.

reliably collects condensate on the



#### Stacking frame - 006072

The stacking frame prevents the device from protruding into the housing. Ideal for applications where space is particularly limited.



#### Condensate drainage - 005795

Condensate drainage - 005570

housing.

inside

IP68 protected.

KAE-4 drainage element for the safe removal of condensate from the

Space-saving installation from the

Drainage via side housing wall.

KAE-36 drainage element for the safe removal of condensate from the housing. IP68 protected and therefore suitable for outdoor areas. Mounted on the base of the enclosure.



#### Condensate drainage - 005806

KAE-36-VENT Drainage element with integrated pressure equalization for safe drainage of condensate from the enclosure - IP68 protected. Mounted on the base of the enclosure.



#### Condensate drainage - 005822

KAE-4-VENT drainage element for safe drainage of condensate from the housing with integrated pressure equalization & IP68 protection Space-saving installation from the inside.

Drainage via side housing wall.

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#### **DR. NEUMANN**

### SWITCH CABINET COOLER Series PROTEMP

# Peltier

### PROTEMP 120 M | AA-120M-24-NN4-XXX-DNPT



CERTIFICATES AND NOTES

### CERTIFICATES



### NOTES

For the product "DR.NEUMANN Peltier-switch cabinet cooler PROTEMP 120 M " the CE label is issued on the basis of the Directive 3014/30/EU of the Council of the European Community of 26 February 2014 on the approximation of the laws of the Member States relating to communication equipment, including the mutual recognition of their conformity.

The product "DR.NEUMANN Peltier-switch cabinet cooler PROTEMP 120 M" as described here meets the requirements for CE labeling:

**Interference immunity according to EN 50082-2** Electromagnetic compatibility generic standards interference immunity

Radio interference suppression according to EN 55022 Class A Electromagnetic compatibility of information processing and telecommunications equipment

#### Electrical safety according to EN 60950

Safety of information technology equipment including electrical office machines

This device is intended for use in industrial environments. The interference immunity and interference emission comply with the guidelines for industrial equipment. When used in residential and business areas, interference with other devices (e.g. radio) may occur under certain circumstances. The operator must independently ensure that no third party is affected by possible interference.

This declaration is made responsibly for the manufacturer

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