TRANBERG® ENCLOSURE HEATERS

TEF 9207 Ex 60079-30-1, T3 240 VAC, with flying lead

Zone 1, Zone 2 & Safe Area

An enclosure heater is protecting mechanical, electrical and electronic equipment from freezing, condensation and corrosion. R. Stahl Tranberg offers globally approved Ex, self regulating enclosure heater in AISI 316L steel housing and low maintenance requirements.
This model is supplied with flying lead electrical connection. It is delivered with power output from 100W up to 500W at 0°C. It has a low profile and is easy to fit inside cabinets. The self regulating heating element prevents overheating.

Application

- For use inside equipment enclosures and cabinets to prevent condensation and provide climatic control.
- Frost protection.

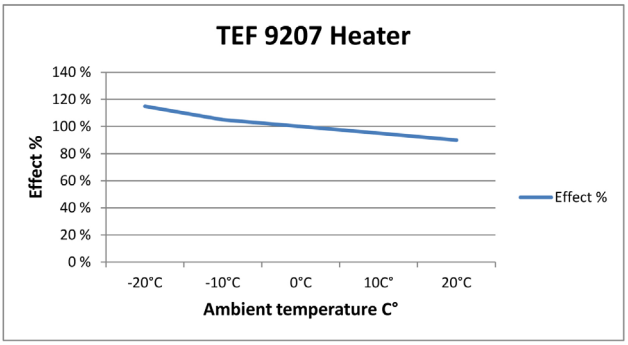
Features and benefits

- Low profile, easy to fit inside cabinets.
- Self regulating heating element. Prevents overheating.
- AISI 316L.
- Low maintenance.

Approvals and certificates

CML 22ATEX3623X

IECEx CML 22.0096X



Estimated power output of heater in respect to ambient temperature.

Technical Data

Ex protection:	Ex II 2G Ex 60079-30-1 IIC T3 Gb
Operational ambient temp.:	-50°C ... +50°C
Max. withstand ambient temp.:	+50°C (Heater is energized) / +80°C (Heater is de-energized)
Nominal voltage:	230V 50/60 Hz
Material:	AISI 316L / EN 1.4404
Electrical connection:	The supply circuit shall include an electrical protection device according to IEC/EN 60079-30-1 CL 4.3. The unterminated flying lead 2.5mm2 cable need an appropriate protection of the free end of the cable (for example terminated in an Ex e junction box). For heaters with a thermostat, max 16A circuit breaker with a breaking capcity of min. 1500A.
Ingress Protection (IP):	IP66
Mounting:	Mounted with 4 pcs M6 screws.

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TPS3007 REV. U 22.05.2024

Subject to change without prior notice

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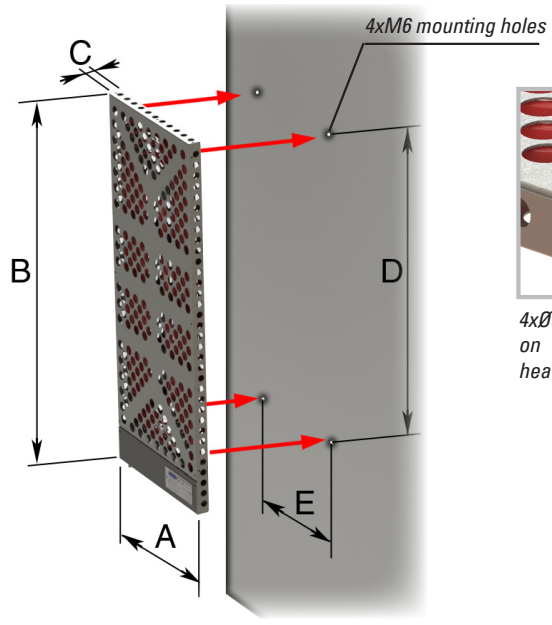
Description	EL No.	Part No.
Enclosure heater, 100W @ 0°C	5420930	92070001
Enclosure heater, 200W @ 0°C	5420931	92070002
Enclosure heater, 300W @ 0°C	5420932	92070003
Enclosure heater, 500W @ 0°C	5420933	92070005

Dimensions

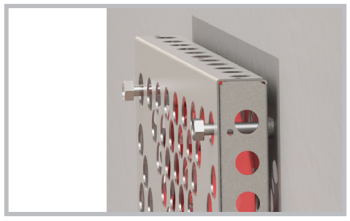
* Nominal output	Overall dimensions				Mounting dimensions	Weight	Length flying lead
	A	B	C	D	E		
100W	200	300	30	190	160	1,62 kg.	1 meter
200W	240	550	30	440	200	3, 44 kg.	1,5 meter
300W	280	700	30	590	240	5,42 kg.	1,5 meter
500W	360	870	30	760	320	8 kg.	1,5 meter

** **Note:** Nominal at still air @ 0°C*

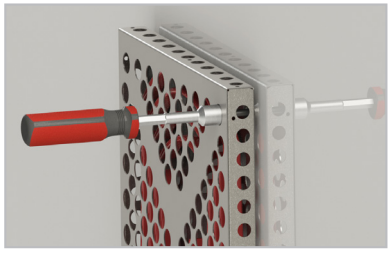
Dimensions / Mounting instructions



4xØ6 mounting holes on the backside of the heater.



Hold the heater close to the installation surface, and insert the M6 screws in each of the 4 mounting holes.



Use a socket wrench to tighten the screws firmly and securing the heater.

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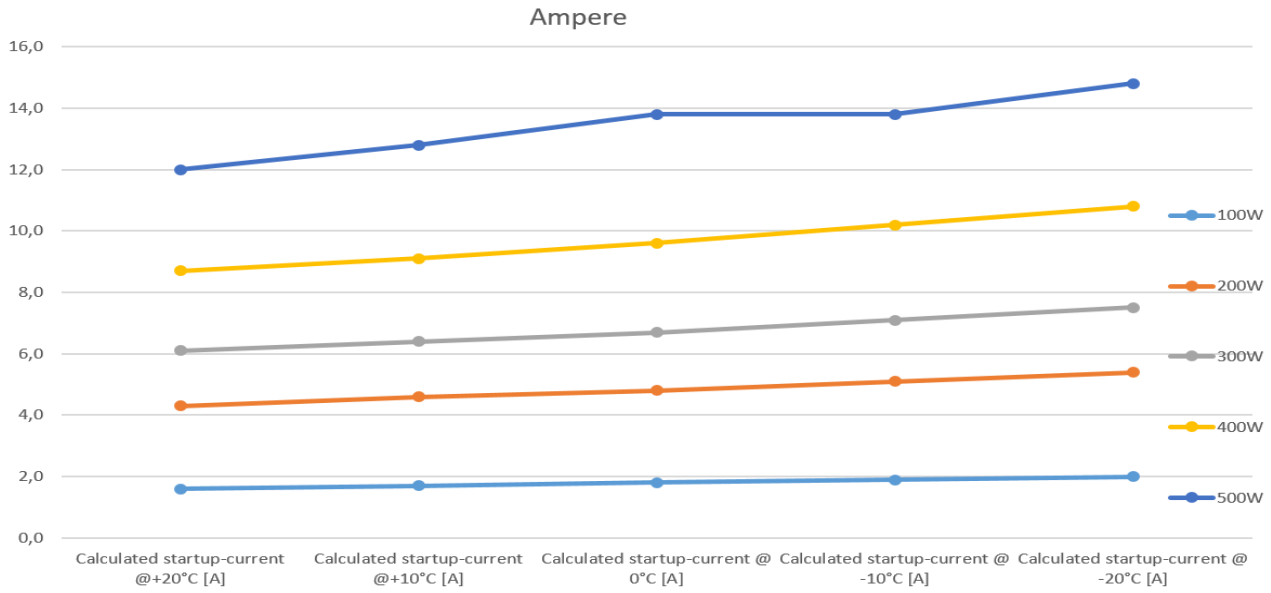
STARTUP CURRENT FOR TEF 9207 @ 230VAC *

Nominal power [W]	Calculated startup-current @+20°C [A]	Calculated startup-current @+10°C [A]	Calculated startup-current @ 0°C [A]	Calculated startup-current @ -10°C [A]	Calculated startup-current @ -20°C [A]	Max no. of heaters on 16A type C MCB @-20°C
100	1.6	1.7	1.8	1.9	2.0	15
200	4.3	4.6	4.8	5.1	5.4	6
300	6.1	6.4	6.7	7.1	7.5	4
400	8.7	9.1	9.6	10.2	10.8	3
500	12.0	12.8	13.8	13.8	14.8	2



*** Note:**

The data contained in this document is based on a limited number of tests, and are presented based on our existing knowledge. The real startup-current is affected by a series of parameters including, but not limited to:

- Voltage fluctuations
- Installed cable cross-section and voltage drop in the circuit

The current is foreseen to drop to half of the calculated startup current after approximately 1 minute (no wind, 0°C).

The values shown are presented as a guide for installation and selection of circuit breakers. The precise startup current for each individual heater can not be guaranteed.