

HWM015



Fandis PTC heaters are used for warming up the air inside enclosure, protecting electrical and electronic components from condensation and corrosion. These H series PTC heaters with cable connection are available in two versions: in metal or plastic, with low surface thermal conductivity to keep safe maintenance operations.

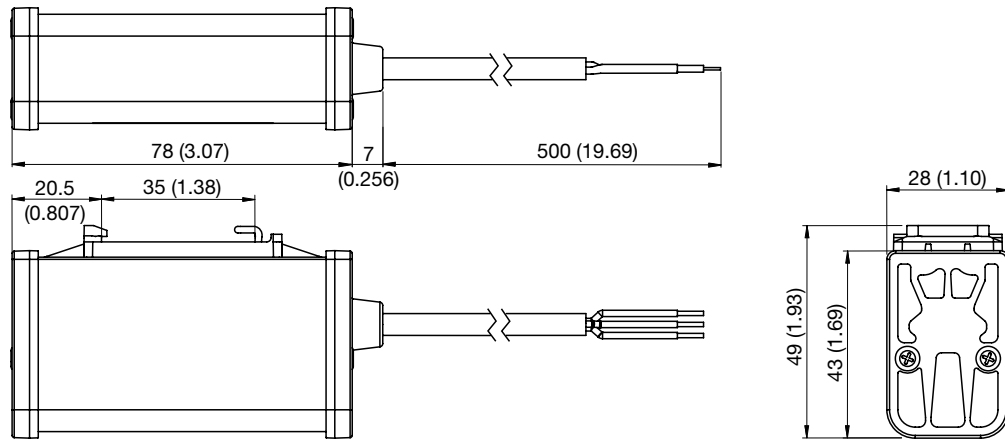
Technical data		
APPROVALS		
Approvals	CE; cURus	
PERFORMANCE		
Heating Power	15	W
ELECTRICAL DATA		
Rated Voltage	110-240	V a.c./d.c.
Operating Voltage	99-264	V a.c.
Frequency	50/60	Hz
Max Current	2.2	A
Appliance Class	I	
GENERIC DATA		
Casing Material	Black Anodised Aluminium	
Electrical Connection	Wires	
Wires Section	20	AWG
Cable Length	500	mm
	19.68	in
Fixing System	DIN rail	
ENVIRONMENTAL AND THERMAL DATA		
IP Protection Degree	IP20	
Operating Temperature	-30÷50	°C
	-22÷122	°F

Technical data		
Storage Temperature	-40÷70	°C
	-40÷158	°F
UL DATA		
UL File Number Recognized Component	E237844	
UL Ambient Temperature	50	°C
	122	°F

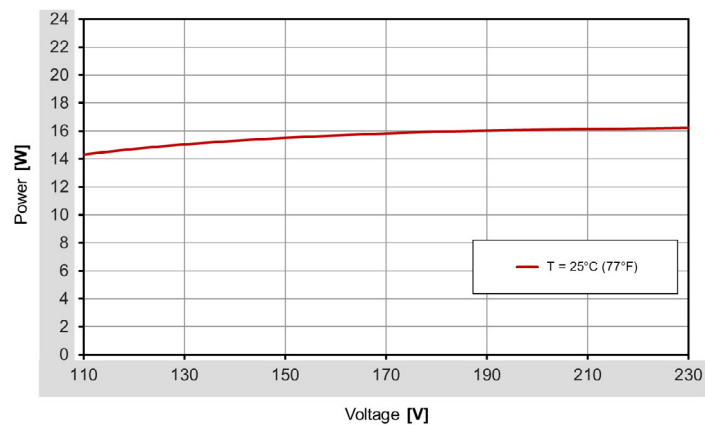


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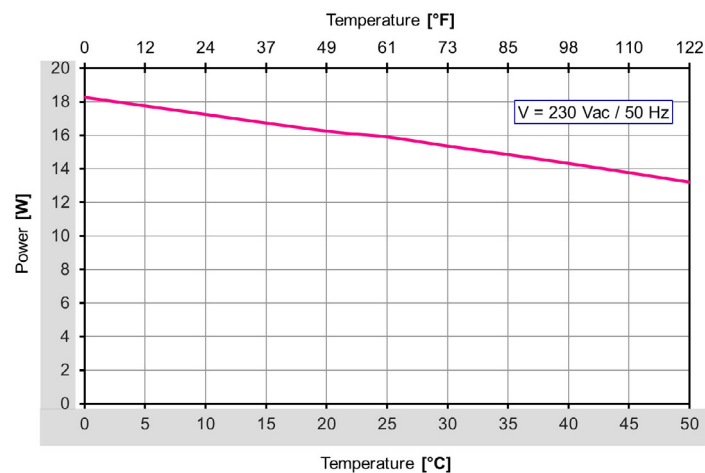
Technical drawing mm (in)



Power-Voltage



Power-Temperature



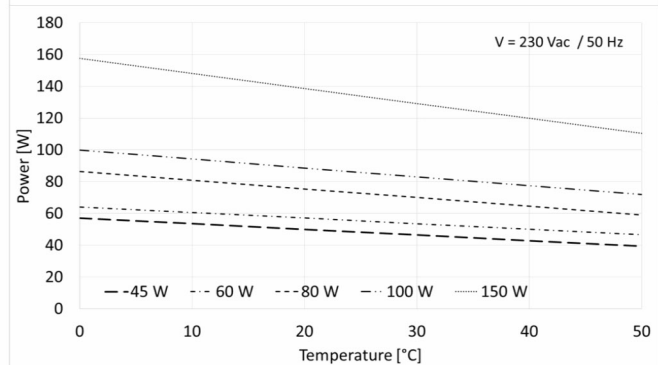
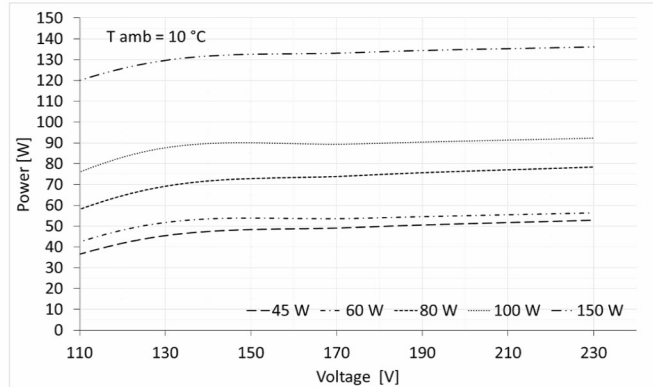
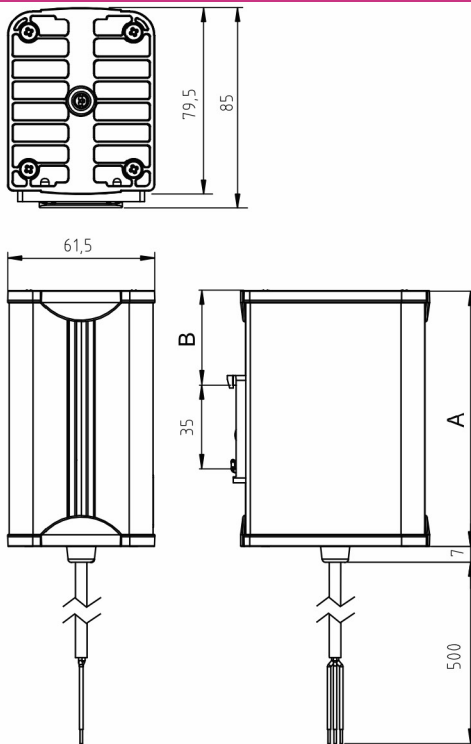
"HWM" HEATERS WITH TERMINALS

Description: **metal cover**
45/60/80/100/150W



Heating element:	PTC thermistor, self regulating
Heat sink:	black anodised extruded aluminium profile
Cover material:	black anodised aluminium
Method of mounting:	snap-on fixing on RAIL 35mm EN 50022
Rated temperature range:	from -30°C to +50°C
Storage temp. range:	from -40°C to +70°C
Protection degree by heaters:	IP20
Electrical connection:	by 3 poles cable L-N-PE
External cable:	3 x 20 AWG cable 500 mm lenght with FEP insulation and external silicone rubber jacket class I
Appliance class:	
Rated voltage range:	110-240 V a.c./d.c.
Rated frequency:	50/60 Hz
Max voltage:	265 V a.c./d.c.
Applicable standards:	EN 60335-1, UL508, CSA C22.2 No.14-13
Approvals:	CE; cURus certified till max 50°C

Technical Drawing



Model	Dimension		Heating Power	I max*	Rated voltage	Weight	Approvals
	A [mm]	B [mm]					
HWM045	108	40	45	1.0	110-240 V a.c./d.c.	0.400	CE; cURus;
HWM060	108	40	60	1.7	110-240 V a.c./d.c.	0.400	CE; cURus;
HWM080	158	65	80	1.7	110-240 V a.c./d.c.	0.550	CE; cURus;
HWM100	158	65	100	2.6	110-240 V a.c./d.c.	0.550	CE; cURus;
HWM150	208	90	150	6.5	110-240 V a.c./d.c.	0.750	CE; cURus;
HWM150X	208	90	150	6.5	110-240 V a.c./d.c.	0.750	CE;