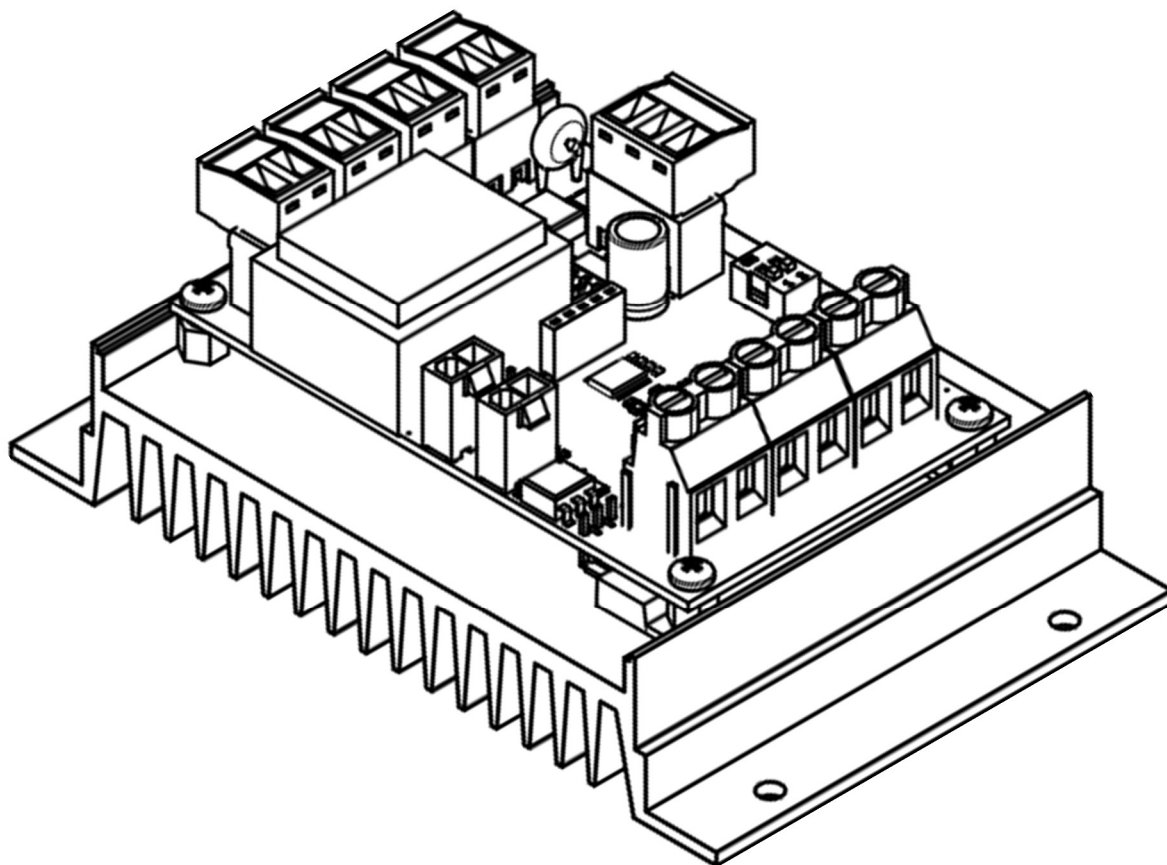
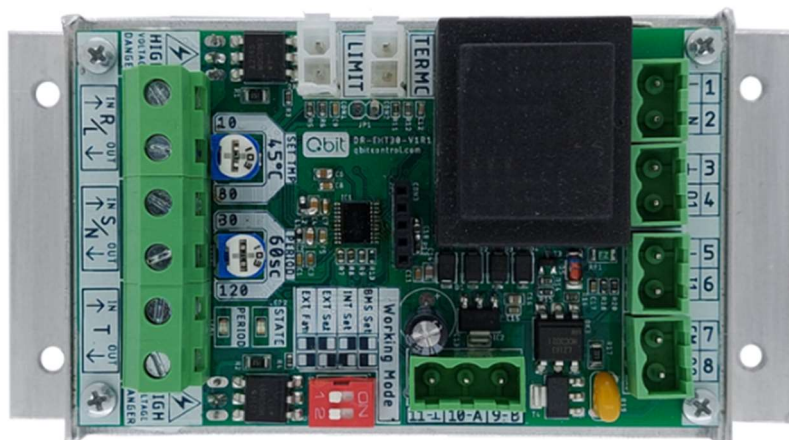




**Electrical Heater
Controller
DR-EHT**

DR-EHT

Air Duct type electrical heater
(Resistive load) controller.



- Configurable system
- Controller or Driver mode
- Zero cross control
- 1-2-3 Phase control
- Digital sensor inputs
- External control inputs
- Room thermostat input
- BMS serial port input

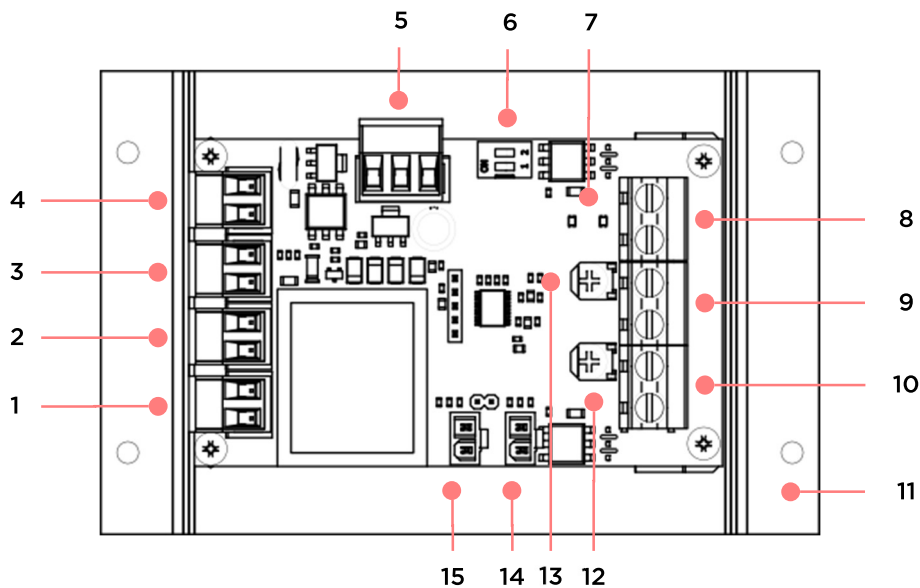
Technical Data

Electrical Features	Model	10		20	30
	Supply Phase	1P	2P	3P	3P
	Power Output	3kW	6kW	9kW	15kW
	Supply	220V	380V	380V	380V
	Consumption	<2.0VA			
Functional Features	Application	Air Duct Type Electrical Heater			
	Config Switch	Working Mode Selection			
	Adjustment Pots	Heater Time Period Pot / Internal Set Temp Pot			
	Outputs	3 Power Out R-S-T 3kW 1P / 6kW 2P / 9kW 3P / 15kW 3P 1 Alarm Out O1 Max. 30VDC / Max. 30mA / Open Collector 1 AC Fan Start Output O2 220VAC / Max. 220W			
	Inputs	1 Universal Input I1 0-10V / Start-Stop 1 Temperature Input TERMIC NTC10K 1 Temperature Input LIMIT NTC10K			
	User Interface	System State Indicator Power Out On Time Indicator			
	Communication	RS485 Modbus (Optional)			

Purchase Code

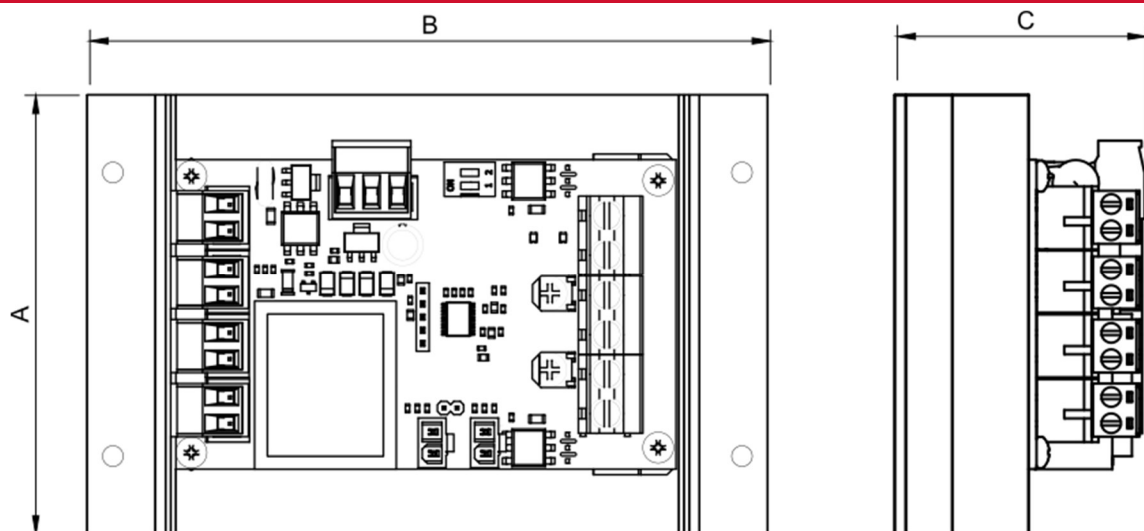
Type	-	Device	Model	.	Optional
XX		XXX	XX		X
DR: Driver		EHT: Electrical Heater	10: 3-6kW 20: 9kW 30: 15kW		R: RS485 Modbus

Overview



1	System Power Input	6	Configuration Switch	11	Mounting Screw Hole
2	Alarm Out	7	State Indicator Led	12	Internal Set Temp Pot
3	External Control Input	8	T Phase Power In/Out	13	Drive Time Period Pot
4	Fan Start Output	9	S Phase Power In/Out	14	Limit Temp/Contact Input
5	MODBUS Terminal	10	R Phase Power In/Out	15	Thermic Temp/Contact Input

Size



Edge	Model		
	10	20	30
A	60 mm	85 mm	95 mm
B	130 mm	130 mm	150 mm
C	50 mm	50 mm	100 mm
Weight	xxxgr	xxxgr	xxxgr

Wiring List

External Device	Function Name	Terminal Number	DR-EHT	Terminal Number	Function Name	External Device
Electricity	Power L	1		R / L	Power In	Electricity
	Power N	2			Power Out	Heater Load
BMS System	Com.Digital	3		S / N	Power In	Electricity
	Output	4			Power Out	Heater Load
	Com.Digital	5		T	Power In	Electricity
	Input	6			Power Out	Heater Load
Fan Power Control	Com.Phase	7		LIMIT	Limit Temp.	Temp. Sensor
	Output	8		THERMIC	Thrmc Temp.	Temp. Sensor

Configuration Table

Config Switch		Mode Name	Description
1	2		
OFF	OFF	BMS Set	Driver control with 0-10V from external controller (BMS).
ON	OFF	INT Set	Driver control via on board set pot with limit temp input.
OFF	ON	EXT Set	Driver control via room thermostat set pot with limit temp input.
ON	ON	EXT Fan	Driver and Fan control via room thermostat set pot with limit temp input.



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