



PLANRAY

- Trace Heating Automation -

BT-300-3P

TECHNICAL DATA



BLUE TRACE

Function

BlueTrace typical heating targets:

- Conduit heat tracing for different materials
- Slab, ramp and conveyor heating
- Receptacle and tank heating
- Roof- and drainpipe heating

Typical heating applications:

- Frost protection
- Process temperature maintaining
- Outdoor temperature based heating

Electrical data

Supply voltage:	100 - 277 VAC, 50 - 60 Hz
Power consumption:	8 W, internal operating voltage transformer
Main circuit voltage:	100 - 277 VAC, 50 - 60 Hz
Main circuit current:	50A @ 0 °C, Absolute maximum 74A /<1s

	Voltage:	Current:	Control mode:
Input connections:	2x 100 - 277 VAC, 24 VDC	5A	Current limited input, function settable
Output connections:	2x 100 - 277 VAC, 24 VDC	5A	Relay, change over contact: func. settable
Temp. measurement connections:	2x PT-100, 3-wire connection Measurement scale -50 ... +600 °C, accuracy +- 0,1 °C (sensor type A)		

Mechanical data

Dimensions:	Height: 424 mm, Width: 132 mm, Depth: 210 mm, mounting spacing 374 mm		
Weight:	5.0 kg		
Space:	0,0107 m ²		
IP-rating:	IP54 / IEC 60529 / SGS 259732-1		
Panel:	ABS		
Heat sink and mounting hardware:	Aluminum		
Display:	128 x 64, monochrome graphics display with contrast adjustment		
Keyboard:	Membrane keypad, IP54 (avoid mechanical stress)		
Cable entries:	M32 * 2pcs (cable Ø 20 mm), M20 * 5pcs (cable Ø 10 mm), M12 * 1pcs (cable Ø 5 mm)		
Connectors:	Supply voltage	2,5 mm ² screw terminal, wire A = 1 - 2,5 mm ²	
	Main circuit	16 mm ² screw terminal, wire A = 1 - 16 mm ²	
	I/O connections	2,5 mm ² plug/screw terminal, wire A = 0,5 - 2,5 mm ²	
	Temp. Measurement	1,5 mm ² plug/screw terminal, wire A = 0,5 - 1,5 mm ²	
	Bus connections	2,5 mm ² plug/screw terminal, wire A = 0,5 - 2,5 mm ²	
	Programming / PC	USB mini B-connector	
	PE / TE	16 mm ² screw terminal, wire A = 1 - 16 mm ²	
	BT-TL600 contactor contr.	2,5 mm ² screw terminal, wire A = 1 - 2,5 mm ²	



Electromagnetic compatibility

Immunity:	EN 61000-6-2:2005 / IEC 61000-6-2:2005
Emission:	EN 61000-6-4:2006 / IEC 61000-6-4:2007

Environmental conditions

Operating temperature:	-40 ... +60 °C
LCD function temperature:	-20 ... +60 °C
Storage temperature:	-30 ... +70 °C

Communications

Serial communication:	USB RS-485 / MODBUS RTU, additional feature PROFIBUS DP, additional feature
Network connection:	ETHERNET / MODBUS RTU over TCP/IP additional feature

Additional card slots

Two card slots for serial communication and network connections.

One slot for BT-TL600 temperature limiter card.

Equipment safety

Meets the safety standard EN-61010-1:2001 (Ed 2), National Differences: CA, CH, US

Packaging information

Size: Length: 550 mm, Height: 225 mm, Width: 160 mm, Space: 0,0198 m²

Country of origin:	Warranty:	Customs code:	UNSPSC-code	ETIM-class
FI	24	9032 10 20	40101800	EC000194

Certificates

SGS FIMKO:	FI 27450; BlueTrace
CSA:	2567936; BlueTrace, BT-TL600
VTT:	VTT 11 ATEX 083X; BT-TL600

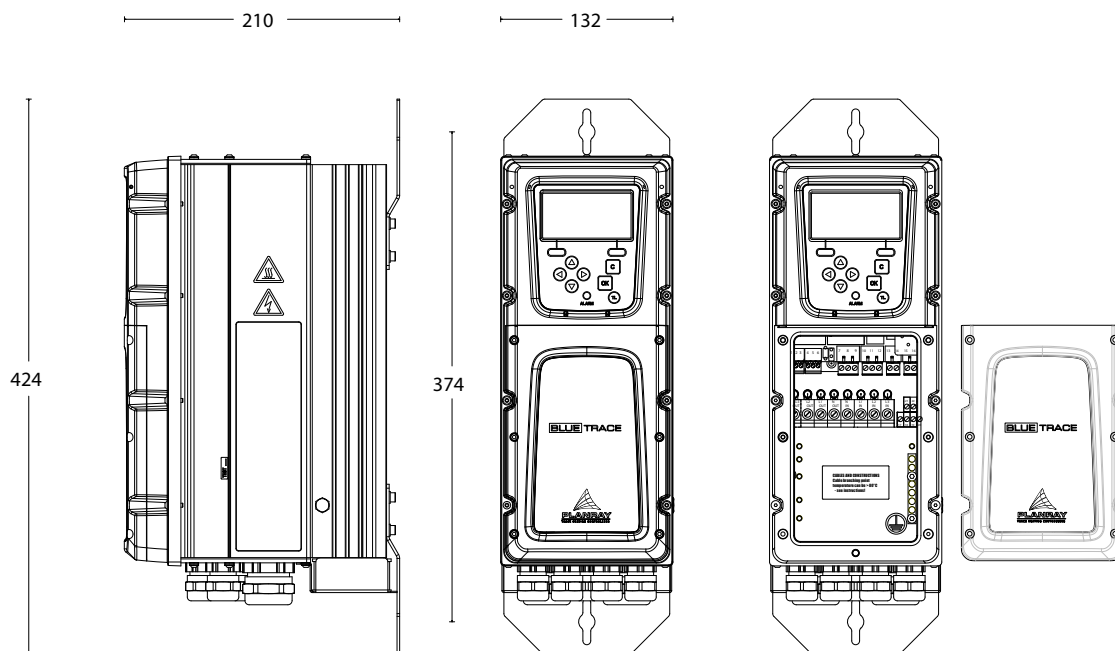




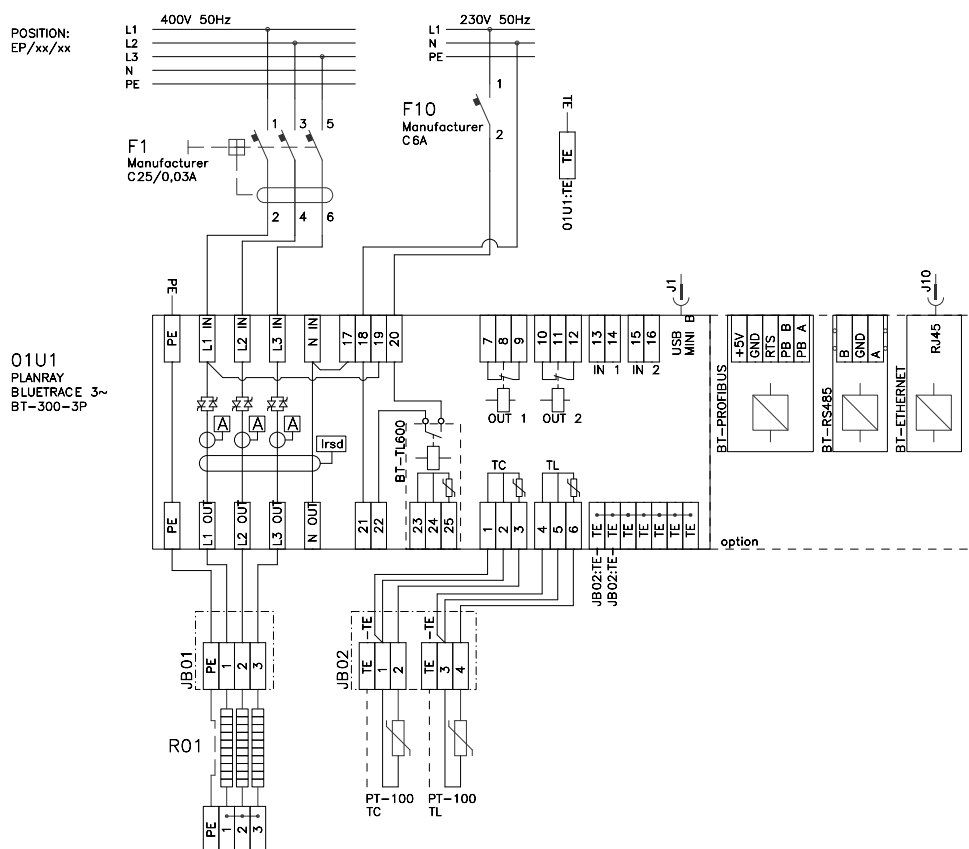
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Product family: BlueTrace
Model: BT-300-3P
GTIN (EAN): 6410081075028

Dimension table



Circuit



Manufacturer

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