

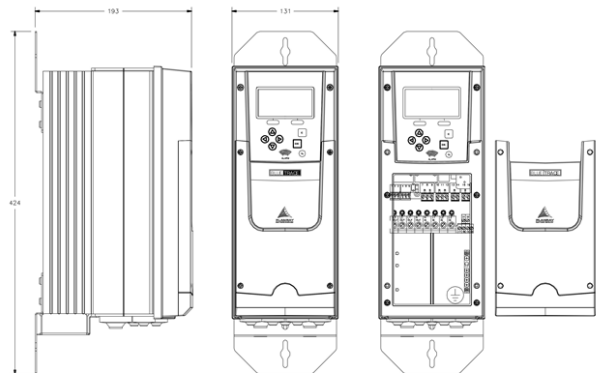
## BT-300-3P BLUETRACE TECHNICAL DATA

### MODEL: BT-300-3P

BlueTrace is a multi-purpose electronic controller designed for all your trace heating needs.

### APPLICATIONS

- Freeze protection
- Process temperature maintaining
- Line or ambient sensing



### ELECTRICAL DATA

Supply voltage:	100 - 277 VAC, 50 - 60 Hz. 2-pole or 3-pole switching		
Power consumption:	8 W, internal operating voltage transformer		
Main circuit voltage:	100 - 277 VAC, 50 - 60 Hz		
Main circuit current:	50A @ 0°C (32°F), Absolute maximum 74A /<1s		
	Voltage:	Current: Control mode:	
Input 1:	100 - 277 VAC, 24 VDC	5A	Current limited input, function settable
Input 2:	100 - 277 VAC, 24 VDC	5A	Current limited input, function settable
Output 1:	100 - 277 VAC, 24 VDC	5A	Relay, change over contact: function settable
Output 2:	100 - 277 VAC, 24 VDC	5A	Relay, change over contact: function settable
Measurement TC:	RTD-100, 3-wire connection		
Measurement TL (BT-TL600):	RTD-100, 3-wire connection		
	Temp. Range -50°C (-58°F) to +600°C (1112°F), accuracy ± 0.1°C (sensor type A)		

### ELECTROMAGNETIC COMPATIBILITY

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

### MECHANICAL DATA

Dimensions:	Height: 16.7" (424 mm), Width: 5.1" (131 mm), Depth: 7.6" (193 mm)		
Weight:	10 lb. (4.6 kg)		
Space:	0.0107 m <sup>2</sup>		
IP -rating:	IP54 / IEC 60529 / SGS 259732-1 NEMA 3		
Housing:	Heat sink: aluminum, Panel: ABS, Mounting hardware: steel		
Display:	Graphic display, Monochrome, contrast adjustment, resolution 128*64		
Keyboard:	Membrane keypad, IP54 (avoid mechanical stress)		
Cable entries:	2 x 3/4" NPT (19 mm), 3 x 1/2" NPT (13 mm)		
Connectors:	Supply voltage	14 awg.	screw terminal, wire A = 18 – 14 awg.
	Main circuit	6 awg.	screw terminal, wire A = 18 – 6 awg.
	I/O connections	14 awg.	plug/screw terminal, wire A = 20 – 14 awg.
	Temp. Measurement	16 awg.	plug/screw terminal, wire A = 20 – 14 awg.
	Bus connections	14 awg.	plug/screw terminal, wire A = 20 – 14 awg.
	Programming / PC	USB	mini B-connector
	PE / TE	6 awg.	screw terminal, wire A = 18 – 6 awg.
	BT-TL600 contactor contr.	14 awg.	screw terminal, wire A = 18 – 14 awg.

# Trace Heating Redefined

DREXAN ENERGY SYSTEMS OFFERS THE MOST TECHNOLOGICALLY ADVANCED AND STRINGENTLY MANUFACTURED TRACE HEATING SYSTEMS THAT PROVIDE OUTSTANDING COST SAVINGS IN ENGINEERED DESIGN AND FIELD INSTALLATION.



## ENVIRONMENTAL CONDITIONS

Operating temperature: -40 to +60 °C (-40 to +140°F)      LCD function temperature: -20 to +60 °C (-4 to +140°F)  
Storage temperature: -30 to +70 °C (-22 to +158°F)

## COMMUNICATIONS

Serial communication:      USB  
   RS-485, additional feature, can be set to use Modbus-protocol  
   Profibus DP, additional feature  
Network connection:      Ethernet module, CAT5e, 10BASE-T or 100BASE-TX, 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: 21.7" (550 mm), Height: 8.9" (225 mm), Width: 6.3" (160 mm)  
Country of origin:      Warranty:      Customs code:      UNSPSC-code:      ETIM-class:  
FI                              24 month              9032 10 20              40101800              EC000194

## CERTIFICATES

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



## CIRCUIT

