SENSOR SELECTION
TS67 ±1°C, 0°C TO 100°C
TS136 ±0.1°C, 0°C TO 100°C
TS91 ±1°C, 0°C TO 100°C
TS104 ±1°C, 0°C TO 100°C
TS141 ±1°C, -40°C TO 70°C
TS165 ±1°C, 100°C TO 200°C

NOTE:
1. WP1, WP2, WP3 & WP4 ARE 0.250 QUICK DISCONNECT TERMINALS.

OPTIONAL HEATSINK BASE
SAFETY GROUND
JP5 EXPANSION PORT
JP3 PIN
C19 COMPONENT AREA

LOAD
0.1 TO 25A
PWRS
12–36VDC

SEE SHEET 2 FOR SPECIFICATIONS & APPS

>>>RoHS COMPLIANT<<<
CUSTOMER WIRING

JP5, EXPANSION CONNECTOR

ALARM CANCEL
INPUT COMMON
HIGH ALARM
LOW ALARM
NO ALARM

JP5, MOLEX 22–23–2081

OPTIONAL SPLIT POWER SUPPLY

PWRs +
12–24VDC
0.2A –

JP6
DC COM
LOGIC V+

1.5K
1W

WP3

WP4

PWRs 0–36VDC

"H" BRIDGE

FEATURES:
H–BRIDGE CONTROL
PID OR ON/OFF CONTROL
PC CONFIGURABLE ALARM CIRCUIT
0–36VDC OUTPUT USING SPLIT POWER SUPPLY
RS232 COMMUNICATION PORT
ROHS COMPLIANT (5R7–001)

SPECIFICATIONS:
SET TEMPERATURE RANGE: −40°C TO 250°C DEPENDENT ON SENSOR SELECTION
TEMPERATURE RESOLUTION: 0.01°C
CONTROL STABILITY: ±0.01°C
PROCESS CONTROL RATE: 90 TIMES PER SECOND

PID FUNCTIONS:
BANDWIDTH: 0.1°C TO 50°C
INTEGRAL: 0 TO 10 REPEATS PER MINUTE
DERIVATIVE: 0 TO 10 MINUTES

SUPPLY VOLTAGE: 12 TO 36VDC

LOAD VOLTAGE: 0 TO 36VDC WITH SPLIT SUPPLY
LOAD CURRENT: 0.1 TO 25A
OUTPUT POWER RESOLUTION: ±0.2%
PWM BASE FREQUENCY: 2.7KHZ
POWER DISSIPATION: 10W MAX AT RATED LOAD
H–BRIDGE ON RESISTANCE: .015Ω

AMBIENT TEMPERATURE RANGE: −20°C TO 70°C

>>>RoHS COMPLIANT<<<

SETPOINT OPTIONS

JP2
JP2
JP6
JP6

249Ω
5K

V(+) CW

(+)

(−)

OPTIONAL HEAT SINK: RECOMMENDED FOR 15A OR GREATER LOAD. ADD H3 TO THE END OF THE PART NUMBER TO ORDER.