

# ANTREX Electronics

Electronic Components Sourcing Information

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## Product Reference Information

**Part Number:** YPAL0013T  
**Manufacturer:** Amphenol Thermometrics  
**Package:** Radial, Disc  
**Availability:** Please confirm with sales

### Product Page:

<https://antrexco.com/product/details/amphenol-thermometrics/ypal0013t.html>

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New & Original Components

Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

### Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.

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## Features

- Designed for general purpose over-current, over-voltage and direct over-temperature protection
  - Wide range of operating current & voltage levels
  - Approved to CECC 44 001 - 002 (certificate E1254/F)
  - Excellent stability
  - Fail-safe operation
  - Solid state
  - High performance barium titanate ceramic
  - Suitable for automatic PCB insertion
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# PTC Type YP

## Thermometrics Wired Disc

PTC Type YP is a Thermometrics product. Thermometrics has joined other GE high-technology sensing businesses under a new name—GE Industrial, Sensing.



# Type YP Specifications

## Description

A range of radially-wired PTC disc thermistors with black silicone resin coating.

## Options

- Non-standard resistances and tolerances
- Resistance matching
- Non-standard wire lengths
- Other wire configurations

## Packaging

All types in the YP range are available loose-packed, as shown in the drawing. Devices are also available on bandolier (tape & reel): types with diameter  $a < 0.53$  in (13.5 mm) comply with IEC 286-2.

To identify the packaging required, replace X in the product codes shown overleaf as follows:

- **Bandoliered:** T
- **Loose-packed:** N

Devices are also available with dimension  $H_0$  (as specified in IEC 286-2) of 0.71 in (18mm) instead of the standard 0.62 in (16 mm). These parts can be ordered by adding the suffix 18 to the code e.g. YPAL0.80T18.

### Pack quantities:

- **Loose packed:** 500/box Bandoliered
- **$a < 0.53$  in (13.5 mm):** 1000/reel (0.5" pitch)
- **$a \geq 0.53$  in (13.5 mm):** 500/reel (1" pitch)

## Data

- **Tolerance on  $R_{25}$ :**  $\pm 25\%$
- **Ambient temperature range:**
  - **at maximum voltage:** 32°F to 140°F (0°C to 60°C)
  - **at zero voltage:** -13°F to 257°F (-25°C to 125°C)
  - **Lead wire material:** Solder-coated brass
  - **Body coating:** Silicone resin (except types YPEL3500X & YPEL6250X)



NTC Type JW Dimensions

# Type YP Specifications

| Group                                                        | Code      | R <sub>25</sub> | I <sub>nt</sub> | I <sub>t</sub> | I <sub>mo</sub> | I <sub>r</sub> | a    | b   | l    | d   | Brand code    | CECC approval |
|--------------------------------------------------------------|-----------|-----------------|-----------------|----------------|-----------------|----------------|------|-----|------|-----|---------------|---------------|
|                                                              |           | Ω               | A               | A              | A               | mA             | mm   | mm  | mm   | mm  |               |               |
| V <sub>max</sub> = 30 VDC<br>T <sub>b</sub> = 248°F (120°C)  | YPAL0.45X | 0.45            | 1.3             | 2.6            | 8               | 115            | 17.5 | 3.5 | 21   | 0.6 | ThM YPAL0.45  |               |
|                                                              | YPAL0.80X | 0.8             | 0.85            | 1.7            | 5.5             | 80             | 13.5 | 3.5 | 17   | 0.6 | ThM YPAL 0.80 |               |
|                                                              | YPAL1.20X | 1.2             | 0.6             | 1.2            | 4.3             | 70             | 11   | 3.5 | 14.5 | 0.6 | ThM YPAL 1.20 |               |
|                                                              | YPAL1.80X | 1.8             | 0.45            | 0.9            | 3               | 60             | 9    | 3.5 | 12.5 | 0.6 | ThM YPAL 1.80 |               |
|                                                              | YPAL4.60X | 4.6             | 0.25            | 0.5            | 1               | 45             | 6.5  | 3.5 | 10   | 0.6 | K             |               |
|                                                              | YPAL0013X | 13              | 0.12            | 0.24           | 0.7             | 25             | 4    | 3.5 | 7.5  | 0.5 | L             |               |
| V <sub>max</sub> = 80 VDC<br>T <sub>b</sub> = 176°F (80°C)   | YPBJ2.30X | 2.3             | 0.245           | 0.5            | 8               | 40             | 17.5 | 3.5 | 21   | 0.6 | ThM YPBJ 2.30 |               |
|                                                              | YPBJ3.70X | 3.7             | 0.17            | 0.35           | 5.5             | 30             | 13.5 | 3.5 | 17   | 0.6 | ThM YPBJ 3.70 |               |
|                                                              | YPBJ5.60X | 5.6             | 0.13            | 0.265          | 4.3             | 25             | 11   | 3.5 | 14.5 | 0.6 | ThM YPBJ 5.60 | Yes           |
|                                                              | YPBJ9.40X | 9.4             | 0.09            | 0.19           | 3               | 20             | 9    | 3.5 | 12.5 | 0.6 | ThM YPBJ 9.40 | Yes           |
|                                                              | YPBJ0025X | 25              | 0.05            | 0.11           | 1               | 16             | 6.5  | 3.5 | 10   | 0.6 | M             | Yes           |
|                                                              | YPBJ0055X | 55              | 0.03            | 0.06           | 0.7             | 12             | 4    | 3.5 | 7.5  | 0.5 | N             | Yes           |
| V <sub>max</sub> = 80 VDC<br>T <sub>b</sub> = 248°F (120°C)  | YPBL2.30X | 2.3             | 0.45            | 0.9            | 8               | 40             | 17.5 | 3.5 | 21   | 0.6 | ThM YPBL 2.30 |               |
|                                                              | YPBL3.70X | 3.7             | 0.32            | 0.64           | 5.5             | 30             | 13.5 | 3.5 | 17   | 0.6 | ThM YPBL 3.70 |               |
|                                                              | YPBL5.60X | 5.6             | 0.25            | 0.5            | 4.3             | 25             | 11   | 3.5 | 14.5 | 0.6 | ThM YPBL 5.60 | Yes           |
|                                                              | YPBL9.40X | 9.4             | 0.15            | 0.3            | 3               | 20             | 9    | 3.5 | 12.5 | 0.6 | ThM YPBL 9.40 | Yes           |
|                                                              | YPBL0025X | 25              | 0.085           | 0.17           | 1               | 16             | 6.5  | 3.5 | 10   | 0.6 | O             | Yes           |
|                                                              | YPBL0055X | 55              | 0.05            | 0.1            | 0.7             | 12             | 4    | 3.5 | 7.5  | 0.5 | P             | Yes           |
| V <sub>max</sub> = 265Vrms<br>T <sub>b</sub> = 176°F (80°C)  | YPCJ0006X | 6               | 0.17            | 0.35           | 4.1             | 10             | 17.5 | 5   | 21   | 0.6 | ThM YPCJ 0006 |               |
|                                                              | YPCJ0010X | 10              | 0.11            | 0.23           | 2.2             | 8              | 13.5 | 5   | 17   | 0.6 | ThM YPCJ 0010 |               |
|                                                              | YPCJ0015X | 15              | 0.09            | 0.18           | 1.5             | 6              | 11   | 5   | 14.5 | 0.6 | ThM YPCJ 0015 | Yes           |
|                                                              | YPCJ0025X | 25              | 0.06            | 0.13           | 1               | 5              | 9    | 5   | 12.5 | 0.6 | ThM YPCJ 0025 | Yes           |
|                                                              | YPCJ0070X | 70              | 0.03            | 0.07           | 0.4             | 4              | 6.5  | 5   | 10   | 0.6 | Q             | Yes           |
|                                                              | YPCJ0150X | 150             | 0.015           | 0.04           | 0.2             | 3              | 4    | 5   | 7.5  | 0.5 | R             | Yes           |
| V <sub>max</sub> = 265Vrms<br>T <sub>b</sub> = 248°F (120°C) | YPCL0006X | 6               | 0.33            | 0.66           | 4.1             | 15             | 17.5 | 5   | 21   | 0.6 | ThM YPCL 0006 |               |
|                                                              | YPCL0010X | 10              | 0.2             | 0.4            | 2.2             | 13             | 13.5 | 5   | 17   | 0.6 | ThM YPCL 0010 |               |
|                                                              | YPCL0015X | 15              | 0.14            | 0.28           | 1.5             | 10             | 11   | 5   | 14.5 | 0.6 | ThM YPCL 0015 | Yes           |
|                                                              | YPCL0025X | 25              | 0.1             | 0.2            | 1               | 9              | 9    | 5   | 12.5 | 0.6 | ThM YPCL0025  | Yes           |
|                                                              | YPCL0035X | 35              | 0.08            | 0.16           | 1               | 9              | 9    | 5   | 12.5 | 0.6 | ThM YPCL 0035 | Yes           |
|                                                              | YPCL0045X | 45              | 0.07            | 0.14           | 1               | 9              | 9    | 5   | 12.5 | 0.6 | ThM YPCL 0045 | Yes           |
|                                                              | YPCL0055X | 55              | 0.06            | 0.125          | 1               | 9              | 9    | 5   | 12.5 | 0.6 | ThM YPCL 0055 | Yes           |
|                                                              | YPCL0065X | 65              | 0.055           | 0.11           | 1               | 9              | 9    | 5   | 12.5 | 0.6 | ThM YPCL 0065 | Yes           |
|                                                              | YPCL0070X | 70              | 0.055           | 0.11           | 0.4             | 6              | 6.5  | 5   | 10   | 0.6 | S             | Yes           |
|                                                              | YPCL0120X | 120             | 0.035           | 0.07           | 0.4             | 5              | 6.5  | 5   | 10   | 0.6 | Z             | Yes           |
|                                                              | YPCL0150X | 150             | 0.03            | 0.06           | 0.2             | 5              | 4    | 5   | 7.5  | 0.5 | T             | Yes           |
| V <sub>max</sub> = 420Vrms<br>T <sub>b</sub> = 248°F (120°C) | YDDL0600X | 600             | 0.021           | 0.039          | 0.2             | 3              | 6.5  | 5   | 10   | 0.6 | U             | Yes           |
| V <sub>max</sub> = 550Vrms<br>T <sub>b</sub> = 248°F (120°C) | YPEK1200X | 1200            | 0.015           | 0.03           | 0.1             | 3              | 6.5  | 5   | 10   | 0.6 | V             | Yes           |
|                                                              | YPEK1500X | 1500            | 0.012           | 0.024          | 0.1             | 2              | 6.5  | 5   | 10   | 0.6 | W             | Yes           |
|                                                              | YPEL3500X | 3500            | 0.008           | 0.018          | 0.25            | 2.5            | 4    | 4   | 7.5  | 0.5 | X             | Yes           |
|                                                              | YPEL6250X | 6250            | 0.006           | 0.014          | 0.15            | 1.5            | 4    | 4   | 7.5  | 0.5 | Y             | Yes           |

|                  |                                                        |                 |                                            |
|------------------|--------------------------------------------------------|-----------------|--------------------------------------------|
| V <sub>max</sub> | Maximum operating voltage                              | I <sub>t</sub>  | Minimum trip current (77°F (25°C) ambient) |
| T <sub>b</sub>   | Switching temperature                                  | I <sub>mo</sub> | Maximum overload current                   |
| R <sub>25</sub>  | Resistance at 77°F (25°C)                              | I <sub>r</sub>  | Residual current (77°F (25°C) ambient)     |
| I <sub>nt</sub>  | Maximum current without tripping (77°F (25°C) ambient) |                 |                                            |

# Type YP Specifications

YP types: Tripping time v Initial current  
Ta=25°C, stillair.

YPLD0600  
YPLC0150  
YPLC0120  
YPLC0070



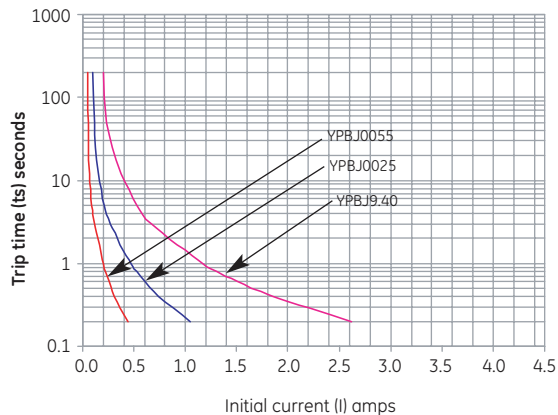
YP types: Tripping time v Initial current  
Ta=25°C, stillair.

YPLC0065  
YPLC0055  
YPLC0045  
YPLC0035



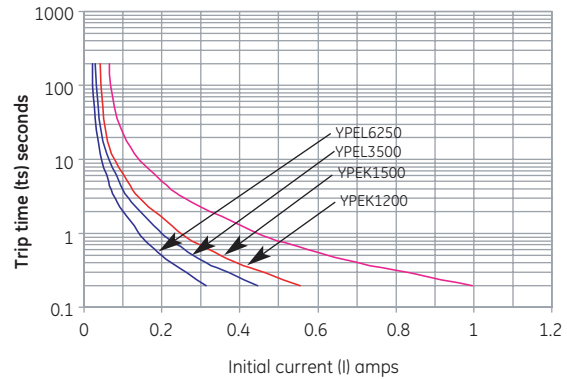
YP types: Tripping time v Initial current  
Ta=25°C, stillair.

YPBJ0055  
YPBJ0025  
YPBJ9.40



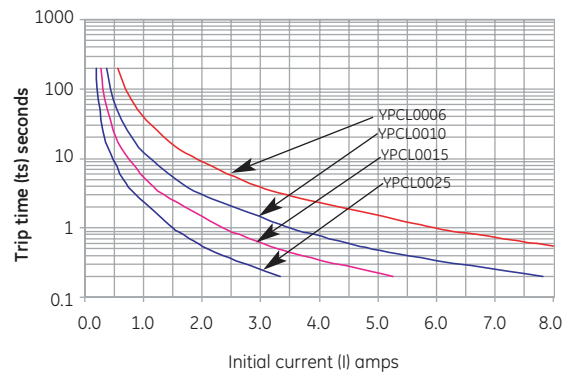
YP types: Tripping time v Initial current  
Ta=25°C, stillair.

YPEL6250  
YPEL3500  
YPEK1500  
YPEK1200



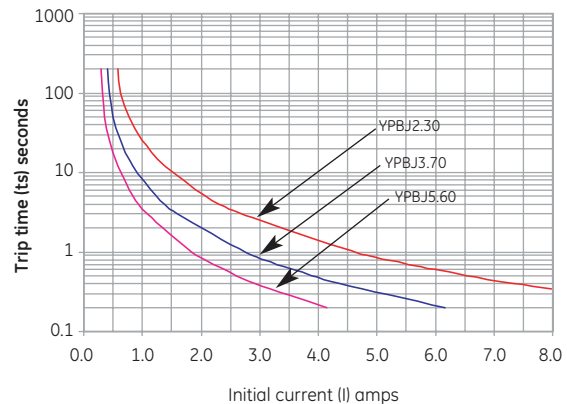
YP types: Tripping time v Initial current  
Ta=25°C, stillair.

YPLC0006  
YPLC0010  
YPLC0015  
YPLC0025



YP types: Tripping time v Initial current  
Ta=25°C, stillair.

YPBJ2.30  
YPBJ3.70  
YPBJ5.60



# Type YP Specifications

YP types: Tripping time v Initial current  
Ta=25°C, stillair.

YPBL0055  
YPBL0025  
YPBL9.40



YP types: Tripping time v Initial current  
Ta=25°C, stillair.

YPAL0.45  
YPAL0.80  
YPAL1.20



YP types: Tripping time v Initial current  
Ta=25°C, stillair.

YPCJ0006  
YPCJ0010  
YPCJ0015



YP types: Tripping time v Initial current  
Ta=25°C, stillair.

YPBJ2.30  
YPBJ3.70  
YPBJ5.60



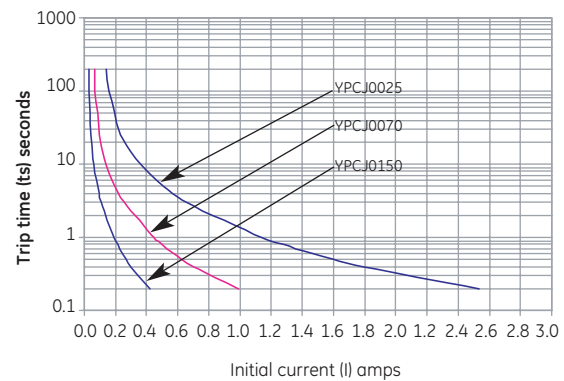
YP types: Tripping time v Initial current  
Ta=25°C, stillair.

YPAL1.80  
YPAL4.60  
YPAL0013



YP types: Tripping time v Initial current  
Ta=25°C, stillair.

YPCJ0025  
YPCJ0070  
YPCJ0150



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