GE
Sensing

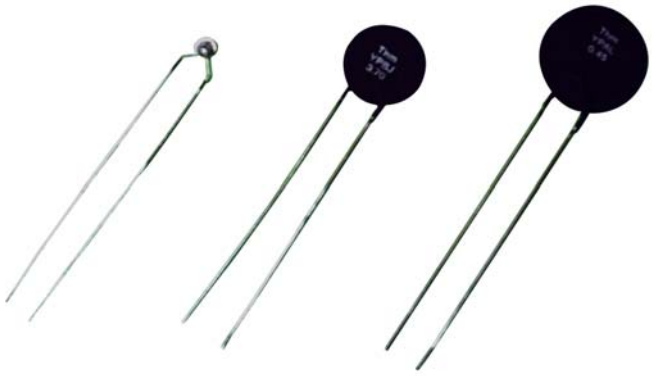
Features

- 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

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.



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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.

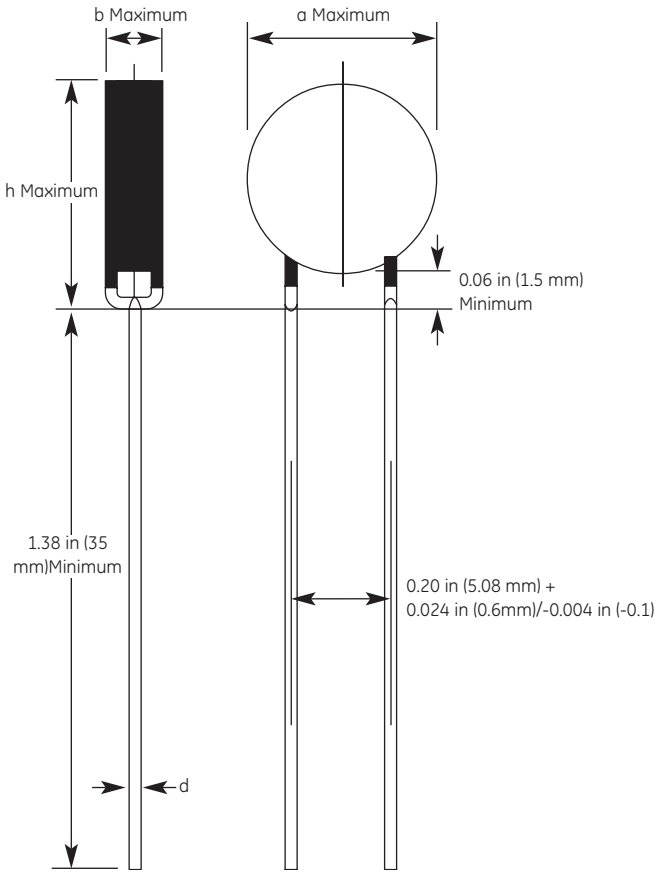
To identify the packaging required, replace X in the product codes shown overleaf as follows:
- **Bandoliered:** T
- **Loose-packed:** N

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 >=0.53 in (13.5 mm):** 500/reel (1¨ pitch)

Data

- **Tolerance on R_{25}:** ±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

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Type YP Specifications

Group	Code	R_{25}	I_{nt}	I_t	I_{mo}	I_r	a	b	l	d	Brand code	CECC
		Ω	A	A	A	mA	mm	mm	mm	mm		approval
	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	
V_{max} = 30 VDC	YPAL1.20X	1.2	0.6	1.2	4.3	70	11	3.5	14.5	0.6	ThM YPAL 1.20	
T_b = 248°F (120°C)	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	
	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	
V_{max} = 80 VDC	YPBJ5.60X	5.6	0.13	0.265	4.3	25	11	3.5	14.5	0.6	ThM YPBJ 5.60	Yes
T_b = 176°F (80°C)	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
	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	
V_{max} = 80 VDC	YPBL5.60X	5.6	0.25	0.5	4.3	25	11	3.5	14.5	0.6	ThM YPBL 5.60	Yes
T_b = 248°F (120°C)	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
	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	
V_{max} = 265Vrms	YPCJ0015X	15	0.09	0.18	1.5	6	11	5	14.5	0.6	ThM YPCJ 0015	Yes
T_b = 176°F (80°C)	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
	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
V_{max} = 265Vrms	YPCL0035X	35	0.08	0.16	1	9	9	5	12.5	0.6	ThM YPCL 0035	Yes
T_b = 248°F (120°C)	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_{max} = 420Vrms	YPDL0600X	600	0.021	0.039	0.2	3	6.5	5	10	0.6	U	Yes
T_b = 248°F (120°C)												
	YPEK1200X	1200	0.015	0.03	0.1	3	6.5	5	10	0.6	V	Yes
V_{max} = 550Vrms	YPEK1500X	1500	0.012	0.024	0.1	2	6.5	5	10	0.6	W	Yes
T_b = 248°F (120°C)	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_{max}	Maximum operating voltage	I_t	Minimum trip current (77°F (25°C) ambient)
T_b	Switching temperature	I_{mo}	Maximum overload current
R_{25}	Resistance at 77°F (25°C)	I_r	Residual current (77°F (25°C) ambient)
I_{nt}	Maximum current without tripping (77°F (25°C) ambient)		

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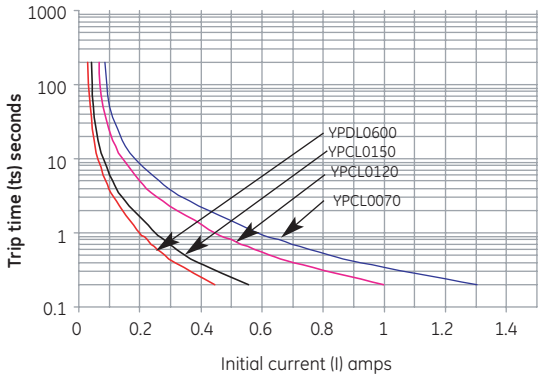
Type YP Specifications

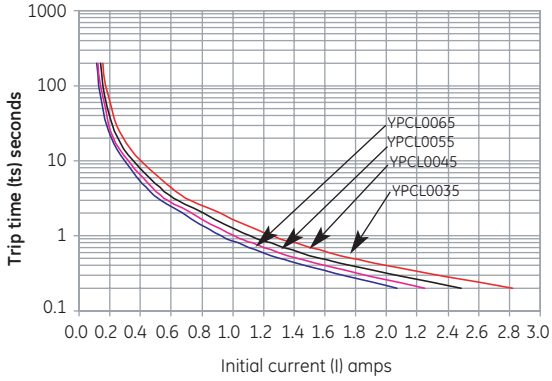
YP types: Tripping time v Initial current
Ta=25°C, stillair.

YPDL0600
YPCL0150
YPCL0120
YPCL0070



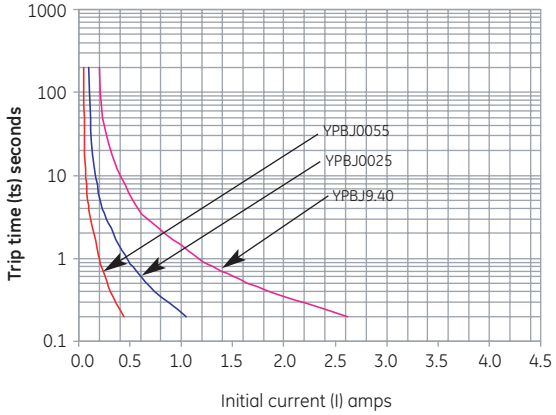
YP types: Tripping time v Initial current
Ta=25°C, stillair.

YPCL0065
YPCL0055
YPCL0045
YPCL0035



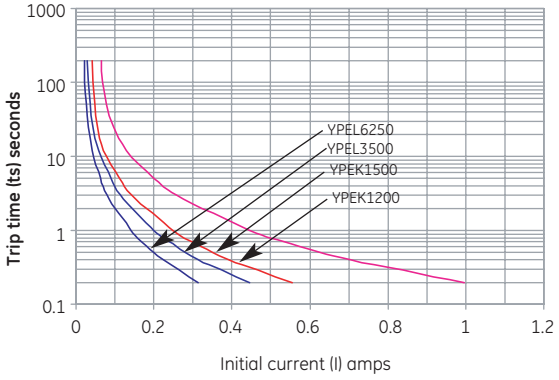
YP types: Tripping time v Initial current
Ta=25°C, stillair.

YPBJ0055
YPBJ0025
YPBJ9.40



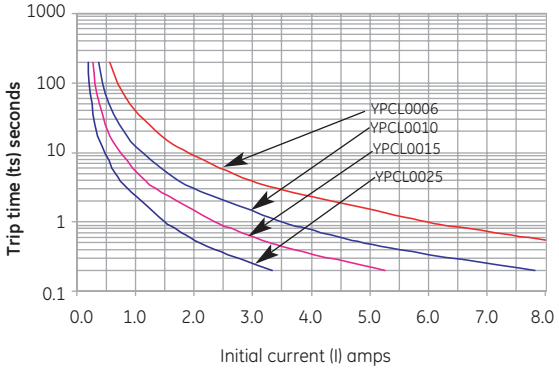
YP types: Tripping time v Initial current
Ta=25°C, stillair.

YPEL6250
YPEL3500
YPEK1500
YPEK1200



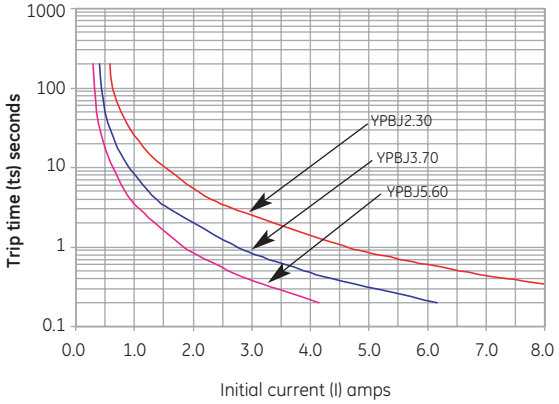
YP types: Tripping time v Initial current
Ta=25°C, stillair.

YPCL0006
YPCL0010
YPCL0015
YPCL0025



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

YPBJ2.30
YPBJ3.70
YPBJ5.60



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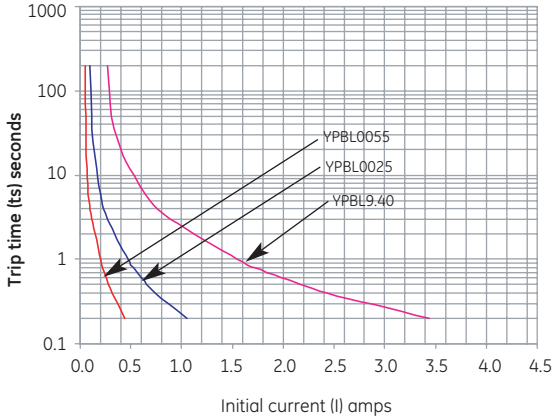
Type YP Specifications

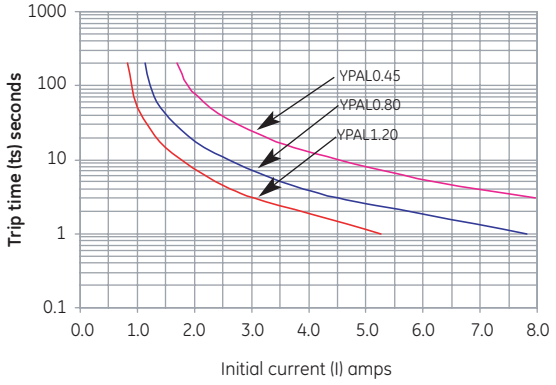
YP types: Tripping time v Initial current
Ta=25°C, stillair.

YPBL0055
YPBL0025
YPBL9.40



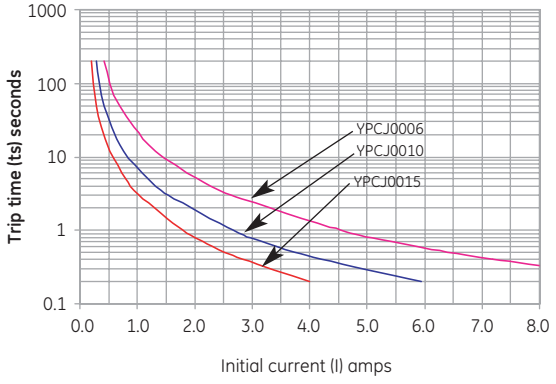
YP types: Tripping time v Initial current
Ta=25°C, stillair.

YPAL0.45
YPAL0.80
YPAL1.20



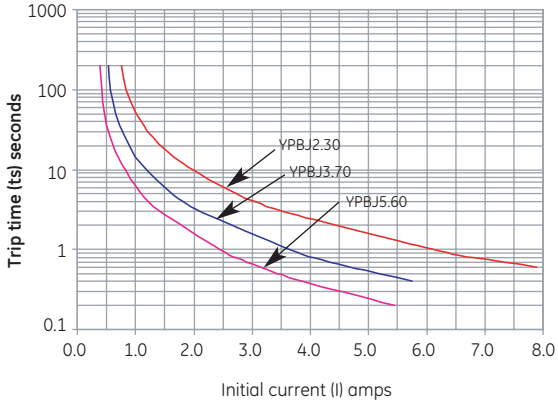
YP types: Tripping time v Initial current
Ta=25°C, stillair.

YPCJ0006
YPCJ0010
YPCJ0015



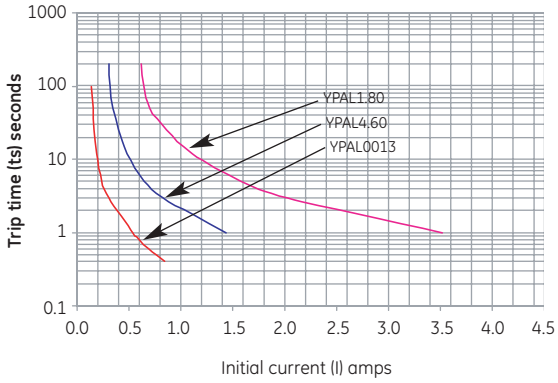
YP types: Tripping time v Initial current
Ta=25°C, stillair.

YPBJ2.30
YPBJ3.70
YPBJ5.60



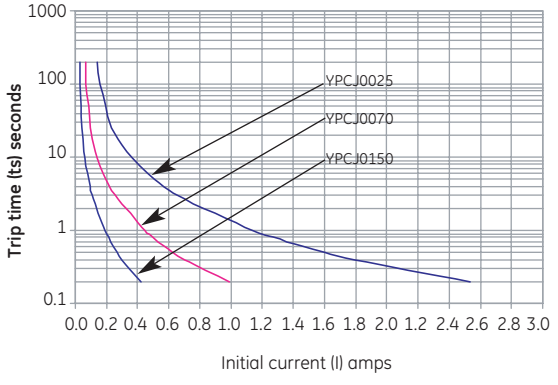
YP types: Tripping time v Initial current
Ta=25°C, stillair.

YPAL1.80
YPAL4.60
YPAL0013



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

YPCJ0025
YPCJ0070
YPCJ0150



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