

PTC thermistors for overcurrent protection

➤ Leded disks, coated, 100V to 220V

◆ Applications

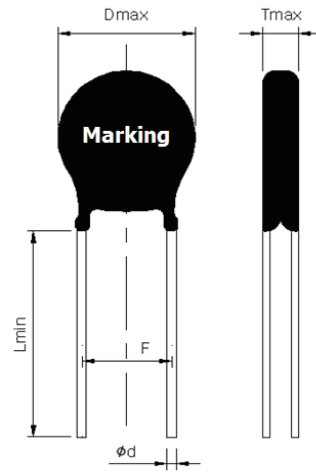
- Overcurrent protection
- Short circuit protection

◆ Features

- Marking : manufacture' logo

reference temperature in °C and date code

ex **HP** HP : Hiel PTC / 06151 : data code
06151



Symbols and terms

R_{25}	Resistance at 25°C
R_b	Resistance switching temperature
T_b	Switching temperature
V_R	Rated voltage
V_{max}	Maximum operating voltage
V_w	Withstanding voltage
I_{res}	Residual current
I_{max}	Maximum current
I_t	Tripping current
I_{nt}	maximum non-tripping current
T_s	Switching time

Dimensions

[mm]

Dim.	Dmax	Tmax	L	F	Φd
D04	5.5	5.0		5.0	0.6
D05	6.5	5.0		5.0	0.6
D06	7.5	5.0	4	5.0	0.6
D07	8.5	5.0	~	5.0	0.6
D08	9.5	5.0	22	5.0	0.6
D10	13	5.5		5.0~7.0	0.6~0.8
D14	17	7		7.5~10.0	0.8

Part no. (Logo : HP)	온도	상온저항	정격전압	최대전압	내전압	동작시간	안정전류	최대전류	부동작전류	동작전류	Part no. (Logo : SYP)
	T_b	R_{25}	V_R	V_{max}	V_{WS}	T_s	I_{res}	I_{max}	I_{nt}	I_t	
	[°C]	[Ω]	[V]	[V]	[V]	[sec]	[mA]	[A]	[mA]	[mA]	
HP GR 06 151 M D 05 00 S 25 N	60	150 ±20%	220	265	400	1.0	3.5 ±30%	0.4	20	40	SYP GR 06 151 M D 05 - S 25
HP GR 06 181 M D 05 00 S 25 N	60	180 ±20%	220	265	400	1.0	3.3 ±30%	0.4	18	36	SYP GR 06 181 M D 05 - S 25
HP GR 08 151 J D 04 00 S 25 A	80	150 ±25%	220	265	400	3.0	5.0 ±30%	0.2	23	46	SYP GR 08 151 J D 04 - I 25
HP GR 08 302 S D 04 00 E 08 A	80	2,600 ±50%	220	265	400	3.0	3.3 ±30%	-	5	10	SYP GR 08 302 S D 04 - I 08
HP GR 08 800 J D 05 00 E 25 A	80	80 ±25%	220	265	400	5.0	6.0 ±30%	0.2	35	70	SYP GR 08 800 J D 05 - I 25
HP GR 08 122 J D 05 00 E 25 A	80	1,200 ±25%	220	265	400	2.0	3.5 ±30%	0.1	10	20	SYP GR 08 122 J D 05 - I 25
HP GR 08 152 J D 05 00 S 25 A	80	1,500 ±25%	220	265	400	2.0	3.4 ±30%	0.1	10	19	SYP GR 08 152 J D 05 - S 25
HP GR 08 152 J D 05 00 S 25 N	80	1,500 ±25%	220	265	400	2.0	3.4 ±30%	0.1	10	19	SYP GR 08 152 J D 05 - S 25
HP GR 08 470 M D 06 R6 E 25 A	80	47 ±20%	220	265	400	1.0	7.0 ±30%	1.0	30	60	SYP GR 08 470 M D 06 - I 25
HP GR 10 501 M D 04 00 E 07 N	100	500 ±20%	220	265	400	2.0	4.8 ±30%	0.2	16	32	SYP GR 10 501 M D 04 - I 07
HP GR 10 551 M D 04 00 E 25 N	100	550 ±20%	220	265	400	2.0	4.8 ±30%	0.2	16	32	SYP GR 10 551 M D 04 - I 25
HP GR 10 102 J D 04 00 E 08 A	100	1,000 ±25%	220	265	400	3.0	4.7 ±30%	0.1	11	22	SYP GR 10 102 J D 04 - I 08
HP GR 10 501 J D 05 00 E 08 A	100	500 ±25%	220	265	400	2.0	5.1 ±30%	0.2	20	40	SYP GR 10 501 J D 05 - I 08
HP GR 10 102 J D 05 00 S 25 A	100	1,000 ±25%	220	265	400	3.0	4.8 ±30%	0.1	13	26	SYP GR 10 102 J D 05 - S 25
HP GR 10 102 M D 05 00 E 08 A	100	1,000 ±20%	220	265	400	3.0	4.8 ±30%	0.1	13	26	SYP GR 10 102 M D 05 - I 08
HP GR 10 251 J D 06 R6 E 25 A	100	250 ±25%	220	265	400	7.0	5.5 ±30%	0.2	32	64	SYP GR 10 251 J D 06 - I 25
HP GR 12 102 M D 04 00 S 25 N	120	1,000 ±20%	220	265	400	3.0	4.8 ±30%	0.1	17	34	SYP GR 12 102 M D 04 - S 25
HP GR 12 151 M D 05 00 E 25 A	120	150 ±20%	220	265	400	6.0	7.0 ±30%	0.2	47	94	SYP GR 12 151 M D 05 - I 25
HP GR 12 151 M D 05 00 S 25 A	120	150 ±20%	220	265	400	6.0	7.0 ±30%	0.2	47	94	SYP GR 12 151 M D 05 - S 25
HP GR 12 251 J D 05 00 E 08 A	120	250 ±25%	200	265	400	4.0	6.0 ±30%	0.2	35	70	SYP GR 12 251 J D 05 - I 08
HP GR 12 251 J D 05 00 S 25 A	120	250 ±25%	200	265	400	4.0	6.0 ±30%	0.2	35	70	SYP GR 12 251 J D 05 - S 25
HP GR 12 102 J D 05 00 S 25 A	120	1,000 ±25%	220	265	400	3.0	5.0 ±30%	0.1	20	40	SYP GR 12 102 J D 05 - S 25
HP GR 12 102 M D 05 00 E 07 N	120	1,000 ±20%	220	265	400	3.0	5.0 ±30%	0.1	20	40	SYP GR 12 102 M D 05 - I 07
HP GR 12 102 M D 05 00 S 25 A	120	1,000 ±20%	220	265	400	3.0	5.0 ±30%	0.1	20	40	SYP GR 12 102 M D 05 - S 25
HP GR 12 112 J D 05 00 S 25 A	120	1,100 ±25%	220	265	400	3.0	5.0 ±30%	0.1	20	40	SYP GR 12 112 J D 05 - S 25
HP GR 12 122 M D 05 00 S 25 A	120	1,200 ±20%	220	265	400	3.0	4.8 ±30%	0.1	17	34	SYP GR 12 122 M D 05 - S 25
HP GR 12 152 J D 05 00 S 25 A	120	1,500 ±25%	220	265	400	2.0	4.5 ±30%	0.1	16	32	SYP GR 12 152 J D 05 - S 25
HP GR 12 152 M D 05 00 E 10 A	120	1,500 ±20%	220	265	400	2.0	4.5 ±30%	0.1	16	32	SYP GR 12 152 M D 05 - I 10

Part no. (Logo : HP)	온도	상온저항	정격전압	최대전압	내전압	동작시간	안정전류	최대전류	부동작전류	동작전류	Part no. (Logo : SYP)
	T _b	R ₂₅	V _R	V _{max}	V _{WS}	T _s	I _{res}	I _{max}	I _{nt}	I _t	
	[°C]	[Ω]	[V]	[V]	[V]	[sec]	[mA]	[A]	[mA]	[mA]	
HP GR 12 152 M D 05 00 S 05 A	120	1,500 ±20%	220	265	400	2.0	4.5 ±30%	0.1	16	32	SYP GR 12 152 M D 05 - S 05
HP GR 12 152 M D 05 00 S 10 A	120	1,500 ±20%	220	265	400	2.0	4.5 ±30%	0.1	16	32	SYP GR 12 152 M D 05 - S 10
HP GR 12 152 M D 05 00 S 25 A	120	1,500 ±20%	220	265	400	2.0	4.5 ±30%	0.1	16	32	SYP GR 12 152 M D 05 - S 25
HP GR 12 200 M D 07 00 E 25 N	120	20 ±20%	110	140	300	3.0	11.0 ±30%	0.1	90	180	SYP GR 12 200 M D 07 - I 25
HP GR 12 100 M D 08 00 E 25 N	120	10 ±20%	110	140	200	3.0	14.0 ±30%	2.0	162	324	SYP GR 12 100 M D 08 - I 25
HP GR 12 250 M D 08 00 S 25 A	120	25 ±20%	220	265	300	3.0	10.5 ±30%	1.2	120	240	SYP GR 12 250 M D 08 - S 25
HP GR 12 300 M D 08 00 S 25 A	120	30 ±20%	220	265	400	3.0	8.7 ±30%	1.0	95	190	SYP GR 12 300 M D 08 - S 25
HP GR 12 390 M D 08 00 B 05 A	120	39 ±20%	220	265	400	2.0	8.3 ±30%	1.0	100	200	SYP GR 12 390 M D 08 - O 05
HP GR 12 390 M D 08 00 B TP A	120	39 ±20%	220	265	400	2.0	8.3 ±30%	1.0	100	200	SYP GR 12 390 M D 08 - O T
HP GR 12 270 M D 10 00 B 04 A	120	27 ±20%	220	265	400	2.5	8.7 ±30%	1.5	120	240	SYP GR 12 270 M D 10 - O 04
HP GR 12 270 M D 10 00 B TP A	120	27 ±20%	220	265	400	2.5	8.7 ±30%	1.5	120	240	SYP GR 12 270 M D 10 - O T
HP GR 12 390 M D 10 00 S 10 A	120	39 ±20%	230	270	550	3.0	10.0 ±30%	1.2	100	200	SYP GR 12 390 M D 10 - S 10
HP GR 12 220 M D 10 00 S 25 A	120	22 ±20%	220	265	320	3.0	11.0 ±30%	1.5	128	256	SYP GR 12 220 M D 10 - S 25
HP GR 12 351 J D 10 00 S 25 A	120	350 ±25%	220	265	400	3.0	8.0 ±30%	0.4	45	90	SYP GR 12 351 J D 10 - S 25
HP GR 12 060 M D 14 00 E 04 A	120	7 ±20%	100	125	180	30.0	25.0 ±30%	1.4	280	560	SYP GR 12 060 M D 14 - I 04
HP GR 13 101 M D 04 00 B 05 A	135	100 ±20%	220	265	400	6.5	7.7 ±30%	0.2	75	150	SYP GR 13 101 M D 04 - O 05
HP GR 13 121 M D 05 00 S 25 A	135	120 ±20%	220	265	400	6.0	7.1 ±30%	0.2	70	140	SYP GR 13 121 M D 05 - S 25
HP GR 13 501 M D 05 00 S 25 A	135	500 ±20%	220	265	400	3.0	6.0 ±30%	0.2	40	80	SYP GR 13 501 M D 05 - S 25
HP GR 13 102 M D 05 00 S 25 A	135	1,000 ±20%	220	265	400	3.0	5.3 ±30%	0.1	23	46	SYP GR 13 102 M D 05 - S 25
HP GR 13 100 M D 14 00 E P A	135	10 ±20%	220	265	400	5.0	16.0 ±30%	2.2	260	520	SYP GR 13 100 M D 14 - I T
HP GR 13 220 J D 14 00 S 25 A	135	22 ±25%	220	265	400	5.0	13.0 ±30%	1.5	220	440	SYP GR 13 220 J D 14 - S 25