

KWTH2-D Series

Thermal Relay

Standard	IEC/EN 60947-4-1
Rated insulation voltage U_i (V)	690
Rated impulse withstand voltage U_{imp} (kV)	6
Tripping class	10A
Signalling	Trip indicator
Tightening torque(N.m)	0.8
Degree of protection	IP20
Ambient air temperature(°C)	-5 to +40, max. 95% humidity
Storage temperature(°C)	-40 ~ +75
Maximum operating altitude(meters)	≤2000
Flame resistance	V1
Mounting	Directly under the contactor
Certification	 Up to 32A available



KWTH2-D

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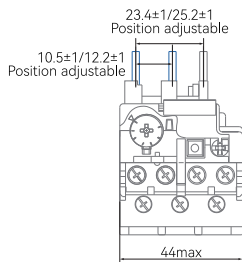
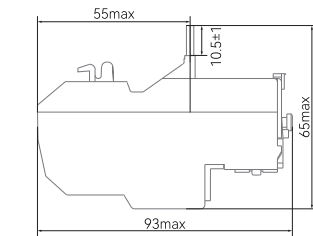
KWTH2-D thermal relay matched with contactor KWMC2-D

Rated frame current (A)	Rated working current of thermal relay	Rated current (A)	Current setting range(A)	Matched fuse type aM(A) gG(A)		Matched AC contactor
25	KWTH2-D 1301	0.16	0.10~0.16	0.25	2	KWMC2-D09
	KWTH2-D 1302	0.25	0.16~0.25	0.5	2	KWMC2-D09
	KWTH2-D 1303	0.40	0.25~0.40	1	2	KWMC2-D09
	KWTH2-D 1304	0.63	0.40~0.63	1	2	KWMC2-D09
	KWTH2-D 1305	1.0	0.63~1.0	2	4	KWMC2-D09
	KWTH2-D 1306	1.6	1.0~1.6	2	4	KWMC2-D09
	KWTH2-D 1306X	2.0	1.25~2.0	4	6	KWMC2-D09
	KWTH2-D 1307	2.5	1.6~2.5	4	6	KWMC2-D09
	KWTH2-D 1308	4.0	2.5~4.0	6	10	KWMC2-D09
	KWTH2-D 1310	6.0	4.0~6.0	8	16	KWMC2-D09
	KWTH2-D 1312	8.0	5.5~8.0	12	20	KWMC2-D09
	KWTH2-D 1314	10	7~10	12	20	KWMC2-D12
	KWTH2-D 1316	13	9~13	16	25	KWMC2-D18
	KWTH2-D 1321	18	12~18	20	35	KWMC2-D18
	KWTH2-D 1322	25	17~25	25	50	KWMC2-D25
36	KWTH2-D 2353	32	23~32	40	63	KWMC2-D32
	KWTH2-D 2355	40	30~40	40	80	KWMC2-D40
93	KWTH2-D 3353	32	23~32	40	63	KWMC2-D32
	KWTH2-D 3355	40	30~40	40	100	KWMC2-D40
	KWTH2-D 3357	50	37~50	63	100	KWMC2-D50
	KWTH2-D 3359	65	48~65	63	100	KWMC2-D65
	KWTH2-D 3361	70	55~70	80	125	KWMC2-D80
	KWTH2-D 3363	80	63~80	80	125	KWMC2-D80
	KWTH2-D 3365	93	80~93	100	160	KWMC2-D95

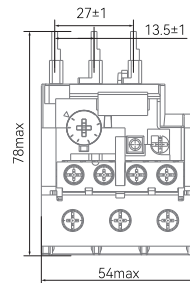
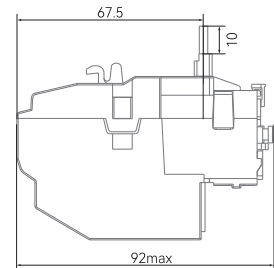
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Thermal Relay

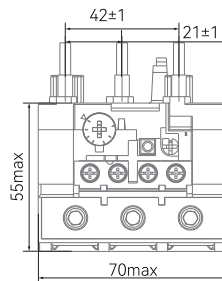
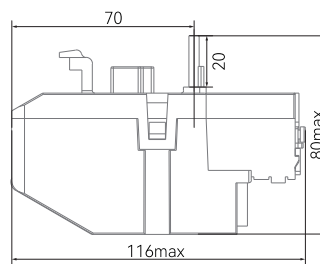
Overall Dimensions



KWTH2-D13

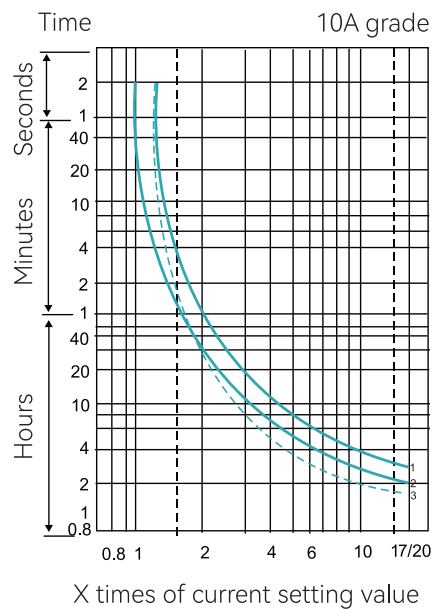


KWTH2-D23



KWTH2-D33

Tripping curve for thermal relay



Equilibrium running

3phase

2phase

3phase

Start form cold state

After long period of setting current(hot state)

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■ Operating Characteristics

Operating Time under Balanced Three-Phase Load

Serial No.	Multiple of Rated Current	Operating Time	Initial Condition	Ambient Temperature
1	1.05	> 2h	Cold state	20 ± 5°C
2	1.2	< 2h	Hot state (After Test No.1)	20 ± 5°C
3	1.5	< 2min		20 ± 5°C
4	7.2	2s < T _p ≤ 10s	Cold state	20 ± 5°C

Phase Loss Operating Performance

Serial No.	Multiple of Rated Current		Operating Time	Initial Condition	Ambient Temperature
	Any Two Phases	Third Phase			
1	1.0	0.9	> 2h	Cold state	20 ± 5°C
2	1.15	0	< 2h	Hot state (After Test No.1)	20 ± 5°C

■ Product Description

KWTH2-D series thermal overload relays

KWTH2-D series thermal overload relays are intended for use in circuits with AC 50/60 Hz, rated voltage up to 690 V and current up to 93 A, providing overload and phase-failure protection for AC electric motors.

Featuring a differential mechanism, temperature compensation and trip indication, these relays can be mounted in combination with AC contactors or installed independently.

This product complies with the IEC/EN 60947-4-1 standard.