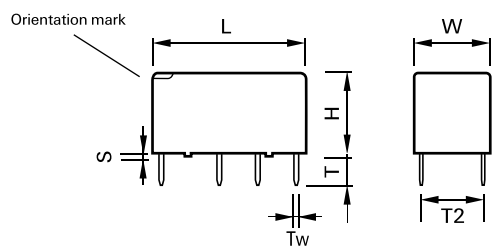


## THT Version

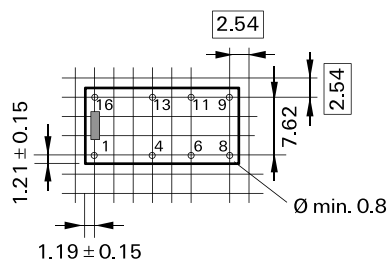


## Dimension

	THT	
	mm	inch
L	20.2 + 0.05/-0.02	0.795 + 0.002/-0.0008
W	10 + 0.05/-0.02	0.393 + 0.002/-0.0008
H	11+0.1/-0.2	0.433 + 0.004/-0.008
T	3.1 ± 0.3	0.122 ± 0.011
T1	N/A	N/A
T2	7.62 ± 0.15	0.3 ± 0.005
S	0.55	0.021
Tw	0.5	0.020

## Mounting hole layout

View onto the component side of the PCB  
(top view)

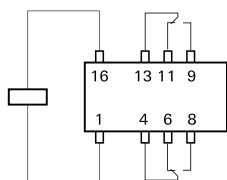


Basic grid 2.54 mm

## Terminal assignment

Relay - top view

non-latching 1 coil  
release condition



## Coil Data (values at 23 °C)

## Ordering Information

Nominal voltage $U_{nom}$	Operate/set voltage range		Release/ reset voltage Minimum	Coil power	Coil Resistance	Relay code	Tyco part number
Vdc	Minimum voltage $U_{min}$ Vdc	Maximum voltage $U_{max}$ Vdc	Vdc	mW	$\Omega / \pm 10 \%$		

High sensitive version (150 mW)  
non-latching 1 coil

3	2.1	8.1	0.30	150	60	C 93400	1-1462001-2
3.3	2.3	8.8	0.33	150	72	C 93407	1-1462001-3
4.5	3.2	12.2	0.45	150	136	C 93406	2-1462000-2
5	3.6	13.5	0.50	150	168	C 93401	0-1462000-1
6	4.3	16.2	0.60	150	240	C 93427	5-1462000-6
9	6.4	24.3	0.90	150	544	C 93405	2-1462000-0
12	8.6	32.4	1.20	150	968	C 93402	0-1462000-7
24	17.1	64.8	2.40	150	3872	C 93403	1-1462000-3
48	34.1	129.6	4.80	150	15468	C 93404	1-1462000-8

Sensitive version (200 mW)  
non-latching 1 coil

3	2.0	7.0	0.30	200	45	C 93414	1-1462001-1
4.5	2.9	10.5	0.45	200	101	C 93415	3-1462000-0
5	3.3	11.6	0.50	200	125	C 93416	3-1462000-1
6	3.9	14.0	0.60	200	180	C 93428	5-1462000-7
9	5.9	21.0	0.90	200	405	C 93417	3-1462000-6
12	7.8	28.0	1.20	200	720	C 93418	3-1462000-7
24	15.6	59.9	2.40	200	2880	C 93419	4-1462000-1
48	31.2	112.0	4.80	200	11520	C 93420	4-1462000-5

Sensitive version (300 mW)  
non-latching 1 coil

4.5	3.1	8.9	0.45	300	73	C 93433	6-1462000-6
5	3.4	9.9	0.50	300	90	C 93434	6-1462000-8
12	8.25	23.6	1.20	300	515	C 93412	2-1462000-6
24	16.5	47.3	2.40	300	2060	C 93435	7-1462000-0
48	32.5	54.6	4.80	300	8240	C 93436	7-1462000-2

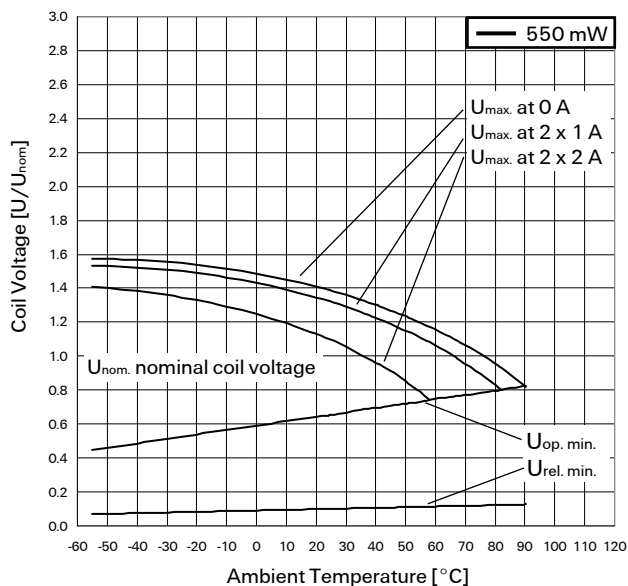
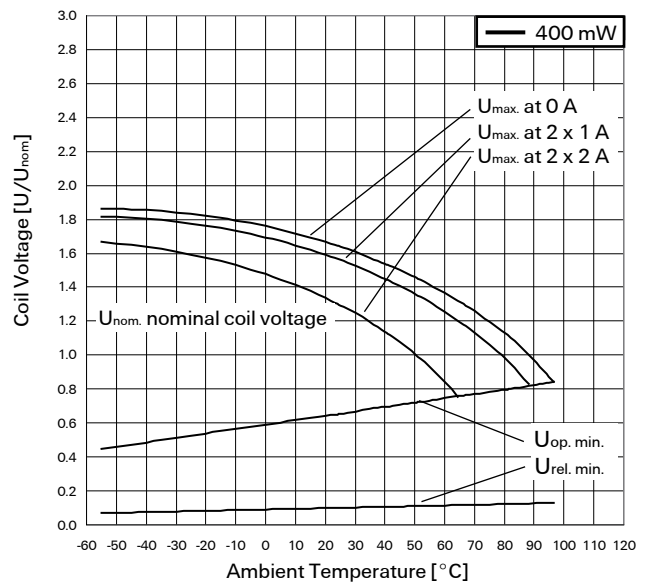
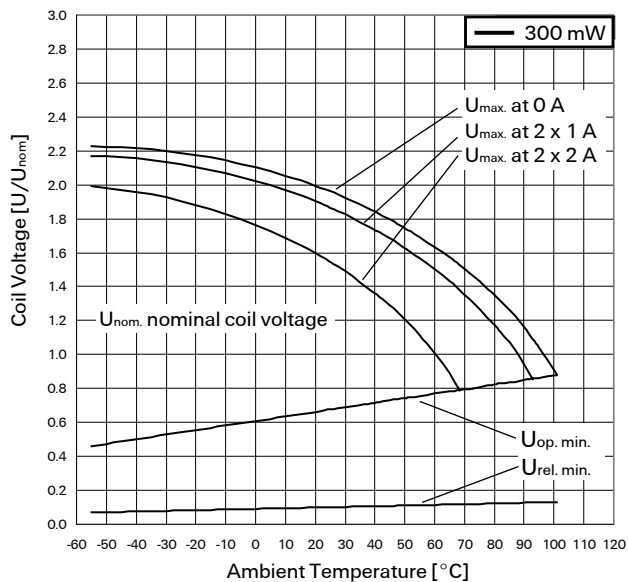
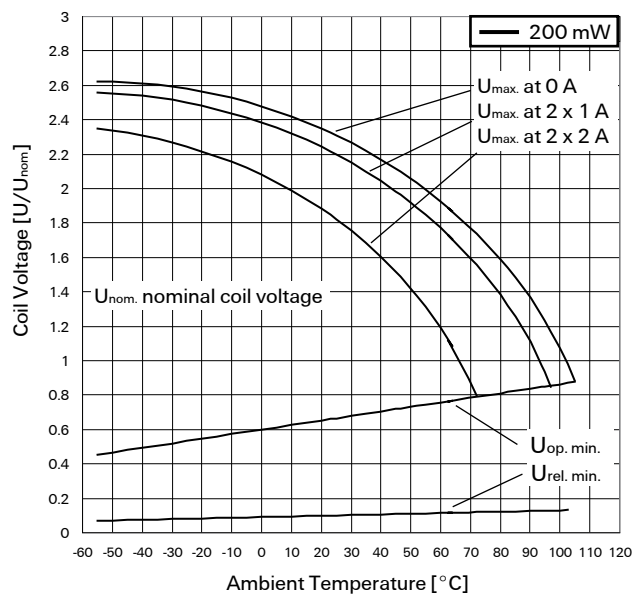
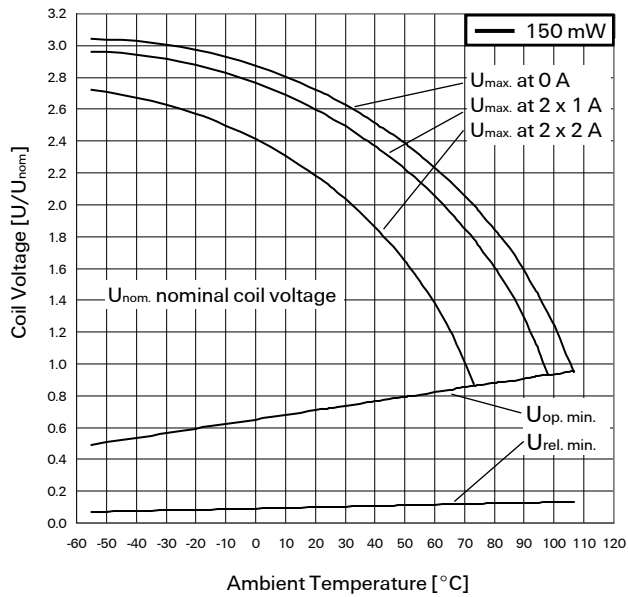
Standard version (400 mW)  
non-latching 1 coil

4.5	2.9	8.9	0.45	400	50	C 93421	4-1462000-7
5	3.3	9.9	0.50	400	63	C 93422	4-1462000-8
6	3.9	11.8	0.60	400	90	C 93429	5-1462000-8
9	5.9	17.7	0.90	400	203	C 93423	5-1462000-0
12	7.8	23.6	1.20	400	360	C 93424	5-1462000-1
24	15.6	47.3	2.40	400	1440	C 93425	5-1462000-3
48	31.2	94.6	4.80	400	5760	C 93426	5-1462000-5

Standard version (550 mW)  
non-latching 1 coil

4.5	2.9	6.3	0.45	550	36	C 93438	7-1462000-7
5	3.3	7.0	0.5	550	45	C 93450	8-1462000-5
6	3.9	8.4	0.60	550	66	C 93437	7-1462000-6
12	7.8	16.8	1.20	550	280	C 93432	6-1462000-2
24	15.6	33.6	2.40	550	1050	C 93431	6-1462000-1
48	31.2	67.2	4.80	550	4100	C 93430	5-1462000-9

## Coil operating range



$U_{nom}$  = Nominal coil voltage

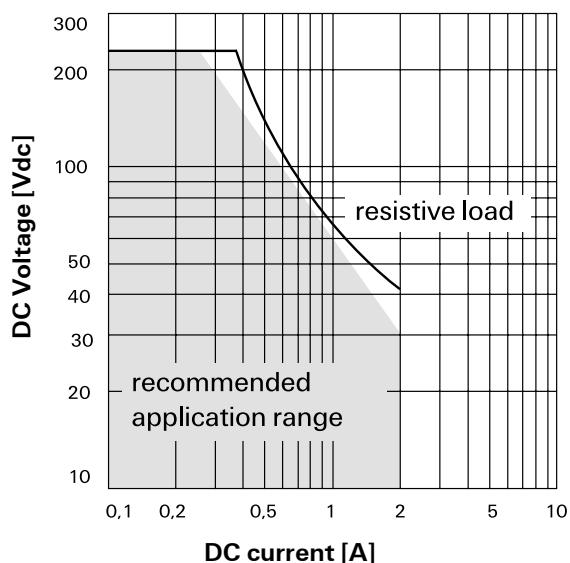
$U_{max}$  = Upper limit of the operative range of the coil voltage (limiting voltage) when coils are continuously energized

$U_{op. min.}$  = Lower limit of the operative range of the coil voltage (reliable operate voltage)

$U_{rel. min.}$  = Lower limit of the operative range of the coil voltage (reliable release voltage)

**Contact Data**

Number of contacts and type	2 changeover contacts
Contact assembly	Bifurcated contacts
Contact material	Silver-nickel, gold-covered
Limiting continuous current at max. ambient temperature	2 A
Maximum switching current	2 A
Maximum switching voltage	220 Vdc 250 Vac
Maximum switching capacity	60 W, 62.5 VA
Thermoelectric potential	< 10 $\mu$ V
Minimum switching voltage	100 $\mu$ V
Initial contact resistance / measuring condition: 10 mA / 20 mV	< 70 m $\Omega$
Electrical endurance	Contact application 0 (30 mV / 10 mA) Cable load open end Resistive load    150 V / 0.2 A - 30 W 24 V / 1.25 A - 30 W
Mechanical endurance	typ. 10 <sup>8</sup> operations
UL contact ratings	220 Vdc / 0.24 A - 60 W 125 Vdc / 0.24 A - 30 W 250 Vac / 0.25 A - 62.5 VA 125 Vac / 0.5 A - 62.5 VA 30 Vdc / 2 A - 60 W

**Contact Data****Insulation**

Insulation resistance at 500 Vdc	> 10 <sup>9</sup> $\Omega$
Dielectric test voltage (1 min)	
between coil and contacts	1050 Vrms
between adjacent contact sets	750 Vrms
between open contacts	750 Vrms
Surge voltage resistance	
according to FCC 68 (10 / 160 $\mu$ s) and IEC (10 / 700 $\mu$ s)	
between coil and contacts	1500 V
between adjacent contact sets	1500 V
between open contacts	1500 V

**High Frequency Data**

Capacitance	
between coil and contacts	max. 4 pF
between adjacent contact sets	max. 2 pF
between open contacts	max. 2 pF
RF Characteristics	
Isolation at 100 / 900 MHz	- 31.8 dB / - 14.2 dB
Insertion loss at 100 / 900 MHz	- 0.02 dB / - 0.97 dB
V.S.W.R. at 100 / 900 MHz	1.03 / 1.31

**General data**

Operate time at $U_{nom}$ typ. / max.	4 ms / 5 ms
Release time without diode in parallel (non-latching), typ. / max.	1 ms / 3 ms
Release time with diode in parallel (non-latching), typ. / max.	4 ms / 6 ms
Bounce time at closing contact, typ. / max.	1 ms / 5 ms
Maximum switching rate without load	50 operations/s
Ambient temperature	-55° C ... +85° C
Thermal resistance	< 85 K/W
Maximum permissible coil temperature	115° C
Vibration resistance (function)	10 G
	10 to 500 Hz
Shock resistance, half sinus, 11 ms	10 G / 30 G (function)
	30 G (damage)
Degree of protection	immersion cleanable, IP 67
Needle flame test	application time 10 s,
Mounting position	any
Processing information	Ultrasonic cleaning is not recommended
Weight (mass)	max. 5 g
Terminal surface	SnCu 0.7
Resistance to soldering heat	260° C / 10 s

All data refers to 23° C unless otherwise specified.

**Packing**

Dimensions in mm

Tube for THT version - 25 relays per stick, 1'000 relays per box

