

реле Т90, НТ90, купить в Минске

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Реле , каталог, описание, технические, характеристики, datasheet,
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реле

**реле электромеханическое
электронные компоненты**

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nt90-rhas-dc12v-c-b-0.9 (rohs)

nt90-rhas-dc24v-c-b-0.9 (rohs)

nt90-rhcs-dc24v-cb-0.9

реле nt90rncts12cb

реле nt90rncts24cb (s90-24f)

nt90-rhas-dc12v-c-b-0.9 (rohs) /forward/ moq>15

Заказ Минск тел.+375 29 7584780 мтс email minsk17@tut.by www.fotorele.net

nt90-rhas-dc24v-c-b-0.9 (rohs) /forward/ moq>15

nt90-rhcs-dc24v-cb-0.9 /forward/ moq>15

реле 24v 30a nrp16t-a-24d-30a (nt90rncts24cb) на заказ

nt90-rhas-dc12v-cb-0.9 [rohs]

nt90-rhas-dc12v-cb-0.9 [rohs]

nt90-rhas-dc24v-c-b-0.9 rohs

nt90r-n-c-s-ac220v-c-b

nt90rhcs110cb/dc110v dip5

nt90-rhas-dc12v-cb-0.9 (rohs)

nt90-rhas-dc24v-cb-0.9 (rohs)

nt90rhasdc12vcb09(rohs)

nt90rhasdc24vcb09(rohs)

nt90rhcsdc24vcb09

nt90rh1addc110v

nt90rh1addc12v

nt90rh1addc15v

nt90rh1addc18v

nt90rh1addc24v

nt90rh1addc3v

nt90rh1addc48v

nt90rh1addc5v

nt90rh1addc6v

nt90rh1addc9v

nt90rh1aedc110v

nt90rh1aedc12v

nt90rh1aedc15v

nt90rh1aedc18v

nt90rh1aedc24v

nt90rh1aecd3v
nt90rh1aecd48v
nt90rh1aecd5v
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nt90rh1aecd9v
nt90rh1aodc110v
nt90rh1aodc12v
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nt90rh1bddc6v

nt90rh1bddc9v

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nt90rh1bedc24v

nt90rh1bedc3v

nt90rh1bedc48v

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nt90rh1bsdc6v

nt90rh1bsdc9v

nt90rh1cddc110v

nt90rh1cddc12v

nt90rh1cddc15v

nt90rh1cddc18v

nt90rh1cddc24v

nt90rh1cddc3v

nt90rh1cddc48v

nt90rh1cddc5v

nt90rh1cddc6v

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nt90rn1aecd18v

nt90rn1aecd24v

nt90rn1aecd3v

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nt90rn1aecd5v

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Заказ Минск тел.+375 29 7584780 мтс email minsk17@tut.by www.fotorele.net

T90 Series, 30A PCB Relay

- **30A, 1 Form A (NO); 20A, 1 Form C (CO)**
- **Available as open frame or sealed construction**
- **Meets UL 508 and 873 Spacing - 3.18 through air, 6.36 over surface**
- **UL class F insulation system standard**

Typical applications
 HVAC, Appliances, Industrial Controls


Approvals

UL E22575; CSA LR15734

Technical data of approved types on request

Contact Data

Contact arrangement	1 form A (NO), 1 form B (NC), 1 form C (CO)
Rated voltage	277VAC
Max. switching voltage	277VAC
Rated current	30A
Limiting continuous current	30A
Limiting making current	30A
Limiting breaking current	30A
Contact material	AgCdO
Min. recommended contact load	1A, 5VDC or 12VAC
Initial contact resistance	75 mΩ at 1A at 5VDC or 12VAC
Frequency of operation, with load	360hr
Operate/release time max., including bounce	15/15ms

Contact ratings

Type	Load	Cycles
------	------	--------

Typical

AgCdO, open style relay	
NO	30A, 240VAC, general purpose
NO	20A, 240VAC, resistive heater
CO	20A/10A, 240VAC, general purpose
CO	20A/10A, 28VDC, resistive

UL 508/873

AgCdO	
NO	30A, 240VAC, general purpose
NC	15A, 240VAC, general purpose
CO	20A/10A, 240VAC, general purpose
NO	20A, 240VAC, resistive
NC	15A, 240VAC, resistive
CO	20A/10A, 240VAC, resistive
NO	80LRA/30FLA, 240VAC
NC	30LRA/10FLA, 240VAC
CO	53.6LRA/20FLA / 20LRA/6.7FLA, 240VAC
NO	98LRA/22FLA, 120VAC
NO	2HP, 240VAC
NC	1/2HP, 240VAC
NO	1HP, 120VAC
NC	1/4HP, 120VAC
NO	6A, 277VAC, ballast
NC	3A, 277VAC, ballast
NO	TV5, 240VAC, tungsten
NC	TV3, 240VAC, tungsten
NO	20A, 28VDC, resistive
NC	10A, 28VDC, resistive

All ratings at 25°C (unless otherwise noted) with relay properly vented. Remove vent nib from enclosed relays after soldering and cleaning for optimum life.

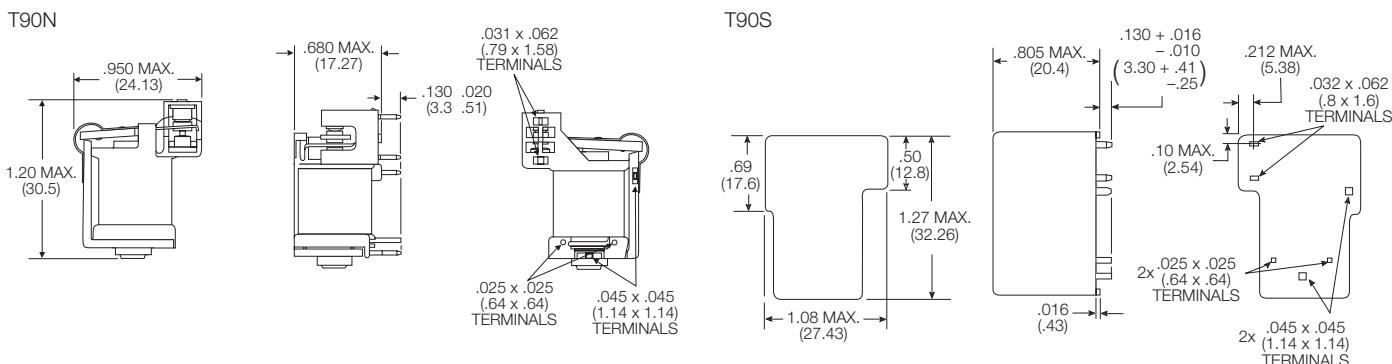
Mechanical endurance	10x10 ⁶ ops.
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T90 Series, 30A PCB Relay (Continued)
Insulation Data

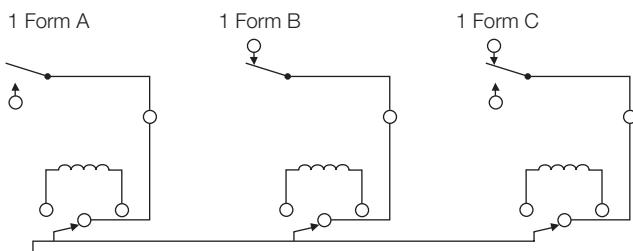
Initial dielectric strength between open contacts	1500V _{rms}
between contact and coil	1500V _{rms}
Initial insulation resistance between insulated elements	1x10 ⁹ Ω
Clearance/creepage between contact and coil	3.17mm

Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter
Ambient temperature DC coil -55°C to 85°C ¹
Category of environmental protection IEC 61810 RT0 - open, RTII - flux proof

Dimensions

Terminal assignment

Bottom view on pins


Accessory

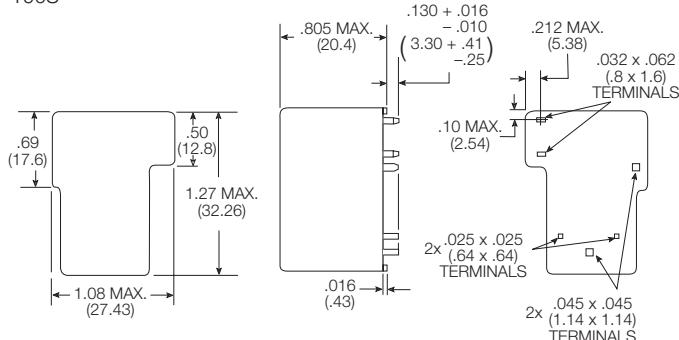
Optional plastic dust cover is a snap-on unit, open on the PC board side of the relay. The cover, when ordered with the relay, is shipped separately. It is designed to be snapped into place by the customer after the relay has been assembled to the PC board.

Product Code	Description	Part Number
35C620A	Black dust cover, for use on T90N relay	4-1393209-2

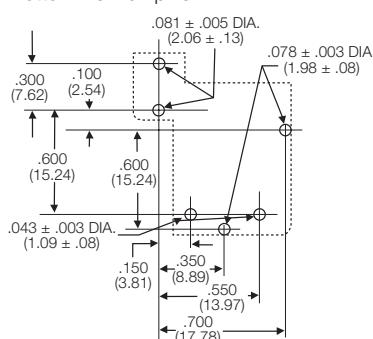
Other Data (continued)

Vibration resistance (functional)	1.65mm max excursions, 10-55 Hz
Shock resistance (functional)	10g for 11msec
Shock resistance (destructive)	100g
Terminal type	pcb-tht
Weight	20g open relay 26g wash-tight relay
Resistance to soldering heat THT IEC 60068-2-20	250°C
Packaging/unit	tray/50 pcs., box/500 pcs.

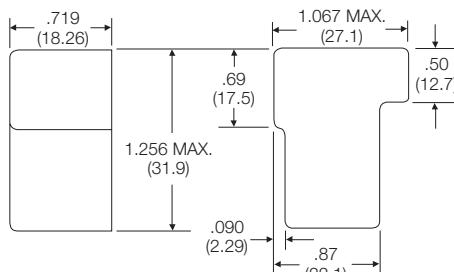
¹ Operating ambient temperature must consider "Must Operate Voltage Change Over Temperature," Contact Temperature Rise, Coil Temperature Rise (If coil is not allowed to cool) and Maximum Coil Temperature. Specification ambient considers 20A load with coil cooled to ambient.

T90S

PCB layout

Bottom view on pins



Only necessary terminals are present on single throw models and terminal code 4 models. Consequently, some holes will be unnecessary for those models.

35C620A


T90 Series, 30A PCB Relay (Continued)
Product code structure

 Typical product code **T90 S 5 D 1 2 -24**
Type
T90 Power PCB relay T90

Enclosure

- N** Open, no enclosure (snap-on dust cover available as an option)
S Wash-tight, sealed plastic case with knock off nib for ventilation

Contact arrangement

- 1** 1 form A (1 NO) **2** 1 form B (1 NC) **5** 1 form C (1 CO)

Coil Input

- D** DC voltage

Mounting and termination

- 1** PCB terminals
4 PCB terminals, no common terminal between coil terminals (see pcb layout/terminal assignment drawing)

Note: Terminal code 4 recommended for UL 873 applications. Consult factory for use of terminal code 1 for UL 873 applications.

Contact material

- 2** AgCdO

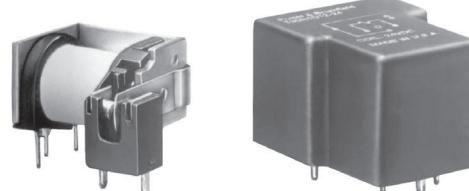
Coil voltage

Coil code: please refer to coil versions table

Product Code	Enclosure	Contacts	Terminals	Contact Material	Coil	Part Number
T90N1D12-5	open, no cover	1 form A, 1 NO	pcb	AgCdO	5 VDC	7-1393208-4
T90N1D12-9					9 VDC	7-1393208-5
T90N1D12-12					12 VDC	6-1393208-5
T90N1D12-18					18 VDC	6-1393208-8
T90N1D12-24					24 VDC	7-1393208-0
T90N1D12-48					48 VDC	7-1393208-3
T90N1D12-110					110 VDC	6-1393208-4
T90N1D42-12			pcb, no extra COM		12 VDC	7-1393208-7
T90N1D42-24					24 VDC	7-1393208-9
T90N5D12-5		1 form C, 1 CO	pcb		5 VDC	9-1393208-5
T90N5D12-12					12 VDC	8-1393208-6
T90N5D12-18					18 VDC	9-1393208-0
T90N5D12-24					24 VDC	9-1393208-3
T90N5D12-48					48 VDC	9-1393208-4
T90N5D12-110					110 VDC	8-1393208-5
T90N5D42-12			pcb, no extra COM		12VDC	9-1393208-9
T90N5D42-24					24 VDC	1393209-2
T90S1D12-5	wash tight	1 form A, 1 NO	pcb		5 VDC	1-1393209-8
T90S1D12-6					6 VDC	1-1393209-9
T90S1D12-9					9 VDC	2-1393209-0
T90S1D12-12					12 VDC	1-1393209-2
T90S1D12-18					18 VDC	1-1393209-3
T90S1D12-24					24 VDC	1-1393209-6
T90S1D42-12			pcb, no extra COM		12 VDC	2-1393209-2
T90S1D42-24					24 VDC	2-1393209-5
T90S1D42-48					48 VDC	2-1393209-6
T90S5D12-5		1 form C, 1 CO	pcb		5 VDC	3-1393209-4
T90S5D12-12					12 VDC	2-1393209-8
T90S5D12-18					18 VDC	3-1393209-0
T90S5D12-24					24 VDC	3-1393209-1
T90S5D12-48					48 VDC	3-1393209-3
T90S5D42-12			pcb, no extra COM		12 VDC	1423094-1
T90S5D42-18					18 VDC	3-1393209-8
T90S5D42-24					24 VDC	4-1393209-0

T90 Series, 30A PCB Relay

- 30A, 1 form A (NO); 20A, 1 form C (CO)
 - Available as open frame or sealed construction
 - Meets UL 508 and 873 Spacing - 3.18 through air, 6.36 over surface
 - UL class F insulation system standard



Typical applications
HVAC, Appliances, Industrial Controls.



Approvals

UL E22575; CSA LR15734

Technical data of approved types on request.

Contact Data

Contact arrangement	1 form A (NO), 1 form B (NC), 1 form C (CO)
Rated voltage	277VAC
Max. switching voltage	277VAC
Rated current	30A
Limiting continuous current	30A
Limiting making current	30A
Limiting breaking current	30A
Contact material	AgCdO
Min. recommended contact load	1A, 5VDC or 12VAC
Initial contact resistance	75 mΩ at 1A at 5VDC or 12VAC
Frequency of operation, with load	360hr
Operate/release time max., including bounce	15/15ms

Contact ratings

Type	Load	Cycles
Typical		
	AgCdO, open style relay	
NO	30A, 240VAC, general purpose	100x10 ³
NO	20A, 240VAC, resistive heater	100x10 ³
CO	20A/10A, 240VAC, general purpose	100x10 ³
CO	20A/10A, 28VDC, resistive	100x10 ³

UL 508/873

AgCdO			
NO	30A, 240VAC, general purpose		100x10 ³
NC	15A, 240VAC, general purpose		100x10 ³
CO	20A/10A, 240VAC, general purpose		100x10 ³
NO	20A, 240VAC, resistive		100x10 ³
NC	15A, 240VAC, resistive		100x10 ³
CO	20A/10A, 240VAC, resistive		100x10 ³
NO	80LRA/30FLA, 240VAC		30x10 ³
NC	30LRA/10FLA, 240VAC		30x10 ³
CO	53.6LRA/20FLA / 20LRA/6.7FLA, 240VAC		100x10 ³
NO	98LRA/22FLA, 120VAC		100x10 ³
NO	2HP, 240VAC		1x10 ³
NC	1/2HP, 240VAC		1x10 ³
NO	1HP, 120VAC		1x10 ³
NC	1/4HP, 120VAC		1x10 ³
NO	6A, 277VAC, ballast		100x10 ³
NC	3A, 277VAC, ballast		6x10 ³
NO	TV5, 240VAC, tungsten		6x10 ³
NC	TV3, 240VAC, tungsten		6x10 ³
NO	20A, 28VDC, resistive		100x10 ³
NC	10A, 28VDC, resistive		100x10 ³

All ratings at 25°C (unless otherwise noted) with relay properly vented. Remove vent nib from enclosed relays after soldering and cleaning for optimum life.

Mechanical endurance 10×10^6 ops.

Coil Data

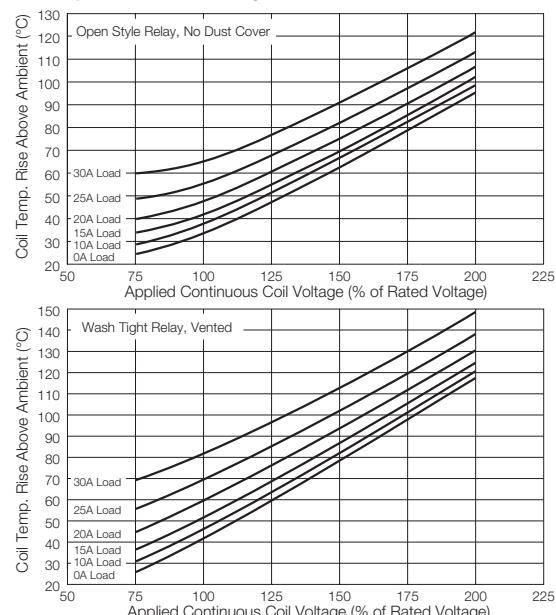
Coil voltage range	5 to 110VDC
Max. coil power	1.0W
Max. coil temperature	155°C
Coil insulation system according UL	Class F

Coil versions. DC coil

Coil Versions, DC coil					
Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance $\Omega \pm 10\%$	Rated coil power wW
5	5	3.75	0.5	27	900
6	6	4.5	0.6	40	900
9	9	6.75	0.9	97	900
12	12	9	1.2	155	900
18	18	13.5	1.8	380	900
24	24	18	2.4	660	900
48	48	36	4.8	2560	900
110	110	82.5	11	13450	900

All figures are given for coil without preenergization, at ambient temperature +23°C.

Ambient temperature vs. coil voltage – 1W coil



Data graphed above are average values and should be verified in application. Tests were conducted within a 2' (.6m) cube (still air), at nominal coil power @ 25°C; with normally open contact loaded; and with 4' (1.22m) long, #10AWG load wires. P.C. board relays were mounted to a 30A, single side P.C. board. Coil rise test conducted with a 30A PC board to maintain 20°C max. rise at 30°C. The relay connections and wiring must be designed with an adequate cross section to ensure proper current flow and heat dissipation. After cleaning process knock-off pins should be removed for optimum life of wash-tight relays.

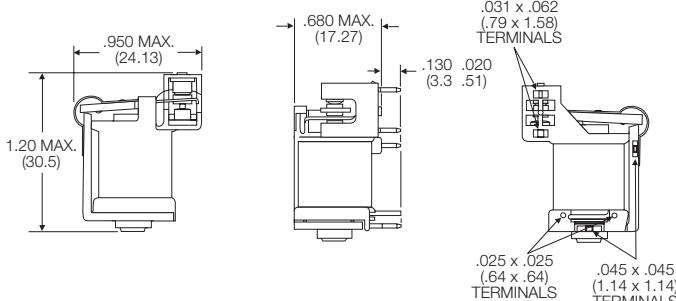
T90 Series, 30A PCB Relay (Continued)
Insulation Data

Initial dielectric strength between open contacts	1500V _{rms}
between contact and coil	1500V _{rms}
Initial insulation resistance between insulated elements	1x10 ⁹ Ω
Clearance/creepage between contact and coil	3.17mm

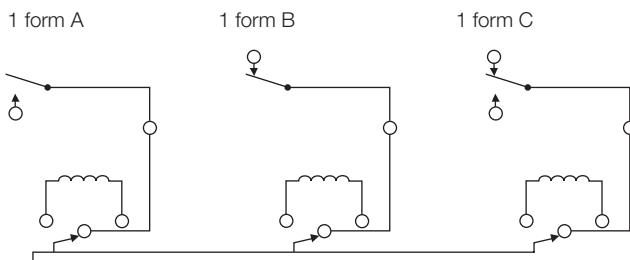
Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter

Ambient temperature DC coil	-55°C to 85°C ¹⁾
Category of environmental protection IEC 61810	RT0 - open, RTIII - wash tight

Dimensions
T90N

Terminal assignment

Bottom view on pins


Accessory

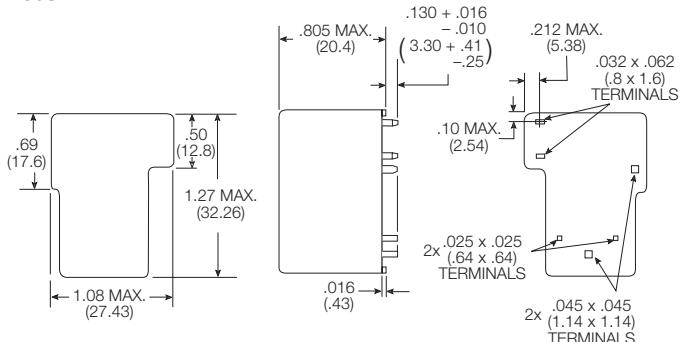
Optional plastic dust cover is a snap-on unit, open on the PC board side of the relay. The cover, when ordered with the relay, is shipped separately. It is designed to be snapped into place by the customer after the relay has been assembled to the PC board.

Product Code	Description	Part Number
35C620A	Black dust cover, for use on T90N relay	4-1393209-2

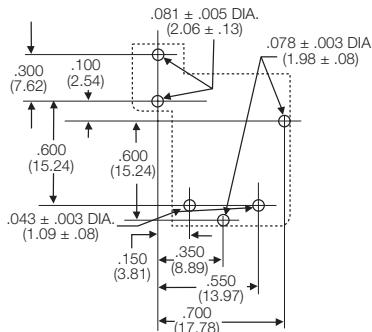
Other Data (continued)

Vibration resistance (functional)	1.65mm max excursions, 10-55 Hz
Shock resistance (functional)	10g for 11msec
Shock resistance (destructive)	100g
Terminal type	PCB-tht
Weight	20g open relay 26g wash-tight relay
Resistance to soldering heat THT IEC 60068-2-20	250°C
Packaging/unit	tray/50 pcs., box/500 pcs.

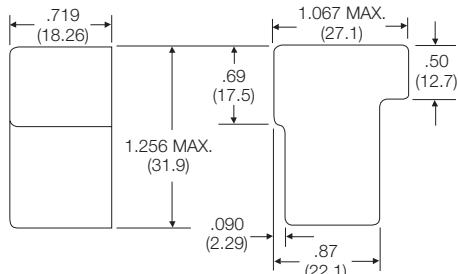
1) Operating ambient temperature must consider "Must Operate Voltage Change Over Temperature," Contact Temperature Rise, Coil Temperature Rise (If coil is not allowed to cool) and Maximum Coil Temperature. Specification ambient considers 20A load with coil cooled to ambient.

T90S

PCB layout

Bottom view on pins



Only necessary terminals are present on single throw models and terminal code 4 models. Consequently, some holes will be unnecessary for those models.

35C620A


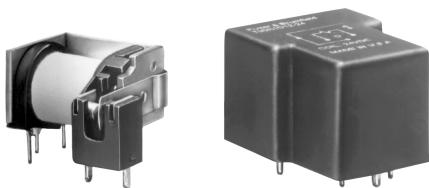
T90 Series, 30A PCB Relay (Continued)

Product code structure

 Typical product code **T90 S 5 D 1 2 -24**

Type	T90 Power PCB relay T90
Enclosure	N Open, no enclosure (snap-on dust cover available as an option) S Wash-tight, sealed plastic case with knock off nib for ventilation
Contact arrangement	1 1 form A (1 NO) 2 1 form B (1 NC) 5 1 form C (1 CO)
Coil Input	D DC voltage
Mounting and termination	1 PCB terminals 4 PCB terminals, no common terminal between coil terminals (see PCB layout/terminal assignment drawing) <small>Note: Terminal code 4 recommended for UL 873 applications. Consult factory for use of terminal code 1 for UL 873 applications.</small>
Contact material	2 AgCdO
Coil voltage	Coil code: please refer to coil versions table

Product Code	Enclosure	Contacts	Terminals	Contact Material	Coil	Part Number
T90N1D12-5	open, no cover	1 form A, 1 NO	PCB	AgCdO	5 VDC	7-1393208-4
T90N1D12-9					9 VDC	7-1393208-5
T90N1D12-12					12 VDC	6-1393208-5
T90N1D12-18					18 VDC	6-1393208-8
T90N1D12-24					24 VDC	7-1393208-0
T90N1D12-48					48 VDC	7-1393208-3
T90N1D12-110					110 VDC	6-1393208-4
T90N1D42-12			PCB, no extra COM		12 VDC	7-1393208-7
T90N1D42-24					24 VDC	7-1393208-9
T90N5D12-5		1 form C, 1 CO	PCB		5 VDC	9-1393208-5
T90N5D12-12					12 VDC	8-1393208-6
T90N5D12-18					18 VDC	9-1393208-0
T90N5D12-24					24 VDC	9-1393208-3
T90N5D12-48					48 VDC	9-1393208-4
T90N5D12-110					110 VDC	8-1393208-5
T90N5D42-12			PCB, no extra COM		12VDC	9-1393208-9
T90N5D42-24					24 VDC	1393209-2
T90S1D12-5	wash tight	1 form A, 1 NO	PCB		5 VDC	1-1393209-8
T90S1D12-6					6 VDC	1-1393209-9
T90S1D12-9					9 VDC	2-1393209-0
T90S1D12-12					12 VDC	1-1393209-2
T90S1D12-18					18 VDC	1-1393209-3
T90S1D12-24					24 VDC	1-1393209-6
T90S1D42-12			PCB, no extra COM		12 VDC	2-1393209-2
T90S1D42-24					24 VDC	2-1393209-5
T90S1D42-48					48 VDC	2-1393209-6
T90S5D12-5		1 form C, 1 CO	PCB		5 VDC	3-1393209-4
T90S5D12-12					12 VDC	2-1393209-8
T90S5D12-18					18 VDC	3-1393209-0
T90S5D12-24					24 VDC	3-1393209-1
T90S5D12-48					48 VDC	3-1393209-3
T90S5D42-12			PCB, no extra COM		12 VDC	1423094-1
T90S5D42-18					18 VDC	3-1393209-8
T90S5D42-24					24 VDC	4-1393209-0

**Features**

- Up to 30A switching in SPST and 20A switching in SPDT arrangements.
- Silver cadmium oxide contacts.
- Available as an open-frame relay, with a snap-on dust cover or with an immersion cleanable⁽⁶⁾, plastic sealed case.
- Meets UL 508 & UL 873 spacing – 1/8" through air, 1/8" over surface. (1/4" over surface with terminal code 4)
- UL class F insulation standard.
- Well suited for various industrial, commercial and residential applications, as well as many others.

Contact Ratings @ 25°C

Arrangements: 1 Form A (SPST-NO) and 1 Form C (SPDT).

Material: Silver-cadmium oxide.

Mechanical Life: 10 million operations, typical.

Contact Ratings @ 25°C with relay properly vented. Remove vent nib after soldering and cleaning.

Typical Electrical Load & Life (Open Style Relay)

Form & Contact Material	Contact Load	Type of Load	Ops
(1) Silver-cadmium oxide	30A @ 240VAC	UL General Purpose	100,000
	20A @ 240VAC	Resistive Heater	100,000
(5) Silver-cadmium oxide	20A/10A @ 240VAC	UL General Purpose	100,000
	20A/10A @ 28VDC	Resistive	100,000

Minimum Contact Load:

Silver Contacts: 500mA @ 5VDC or 12VAC.

Silver Cadmium Oxide Contacts: 1A @ 5VDC or 12VAC.

Initial Contact Resistance: 75 mΩ, max., @ min. rated current (switched).

Initial Dielectric Strength

Between Open Contacts: 1,500V rms.

Between Contacts and Coil: 1,500V rms (terminal code 1).
2,500V rms (UL 873 version terminal code 4).

Initial Insulation Resistance

Between Mutually Insulated Elements: 10⁹ ohms, min., @ 500VDC,
25°C and 50% R.H.

Coil Data @ 25°C

Voltage: 5 to 110VDC.

Maximum Coil Power: 2.8 Watt

Maximum Coil Temperature⁽⁵⁾: Class F: 155°C.

Duty Cycle: Continuous.

Coil Data

Nominal Voltage (VDC)	Resistance ± 10% (Ohms)	Nominal Power (mW)	Nominal Current (mA)
5	27	930	185
6	40	900	150
9	97	840	93
12	155	930	77
15	256	880	59
18	380	850	47
24	660	870	36
48	2,560	900	19
110	13,450	900	8

Operate Data @ 25°C

Must Operate Voltage: 75% of nominal voltage or less.

Must Release Voltage: 10% of nominal voltage or more.

Operate Time (Including Bounce)^t: 15 ms, max.

Release Time (Including Bounce)^t: 15 ms, max.

^t At or From Nominal Coil Voltage

T90 series**30 Amp Printed Circuit Board Relay**

File E22575

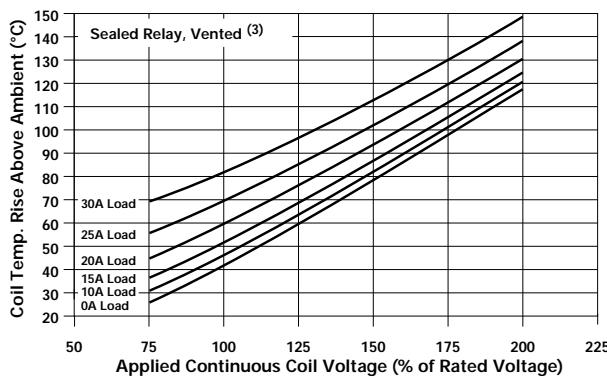
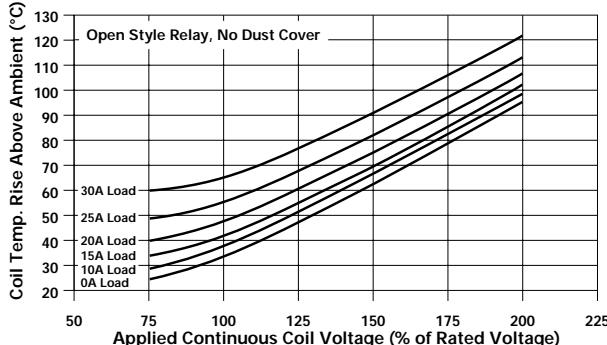
File LR15734

Patented

Users should thoroughly review the technical data before selecting a product part number. It is recommended that user also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

Typical Coil Temperature Rise

Data below are average values and should be verified in application. Tests were conducted within a 2' (.6 m) cube (still air) with relay mounted to a 30A, single side P.C. board (6); at nominal coil power @ 25°C; with normally open contact loaded; and with 4' (1.22 m) long, #10 AWG load wires.

**Environmental Data**

Storage Temperature Range: -40°C to 130°C.

Operating Temperature Range: -55°C to +85°C⁽¹⁾.

Vibration, Operational: 0.065" (1.65mm) max. excursions from 10-55 Hz. with no contact opening >100µs.

Shock, Operational: 10g for 11 ms with no contact opening >100µs.

Shock, Mechanical: 100g.

Mechanical Data

Termination: Printed circuit terminals⁽⁴⁾.

Enclosures (all have 94V-0 flammability rating, Class F temp. rating):

Optional dust cover: Snap-on plastic dust cover is available for use on open style T90N.

Sealed case (T90S): Immersion cleanable, sealed plastic case⁽²⁾.

Weight: Open Model T90N: 0.7 oz. (20g) approximately.

Sealed Model T90S: 0.9 oz. (26g) approximately.

Notes

(1) Operating ambient temperature must consider "Must Operate Voltage Change Over Temperature," Contact Temperature Rise, Coil Temperature Rise (if coil is not allowed to cool) and Maximum Coil Temperature. Specification ambient considers nominal coil voltage, 20A load with coil cooled to ambient.

(2) Sealed relay terminals should not be bent.

(3) Knock-off nib should be removed after cleaning process for optimum life of sealed relays.

(4) Maximum soldering temperature is 500°F for 4 seconds.

(5) Class F coils are UL systems approved for maximum coil temperature of 155°C by change of resistance method.

(6) See application note 13C265 for proper relay mounting, termination, cleaning and PC board conductor width. Coil rise test performed with 30A PC board to maintain 20°C maximum rise @ 30A.

Ordering Information

Typical Part Number ► T90

S 5 D 1 2 -24

- 1. Basic Series:**
T90 = Printed circuit board power relay.

- 2. Enclosure:**
N = Open, no cover (snap-on dust cover available as an option).
S = Immersion cleanable, sealed plastic case with knock-off nib for ventilation.

- 3. Contact Arrangement:**
1 = 1 Form A (SPST-NO). 5 = 1 Form C (SPDT).

- 4. Coil Input:**
D = DC Voltage.

- 5. Terminals:**
1 = Printed circuit terminals.
4 = Printed circuit terminals, no common terminal between coil terminals (see wiring diagram).
Note: Terminal code 4 recommended for UL 873 applications. Consult factory for use of terminal code 1 for UL 873 applications.

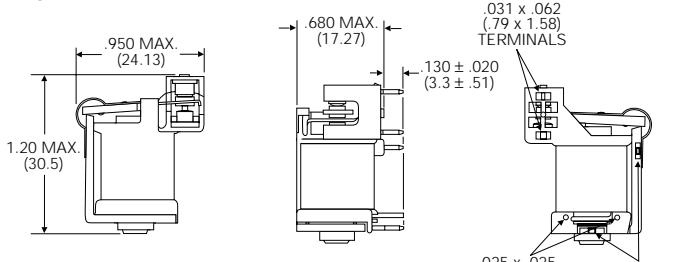
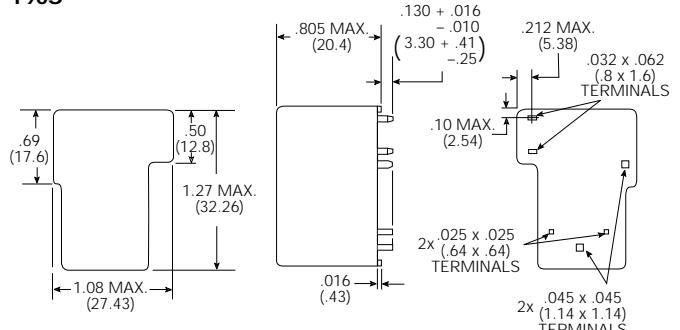
- 6. Contact Material:**
2 = Silver-cadmium oxide.

- 7. Coil Voltage:**
5 = 5V DC 6 = 6V DC 9 = 9V DC 12 = 12V DC 15 = 15V DC 18 = 18V DC 24 = 24V DC 48 = 48V DC 110 = 110V DC

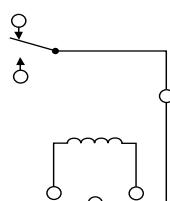
Our authorized distributors are more likely to maintain the following items in stock for immediate delivery.

T90N1D12-12 T90N1D42-24 T90N5D42-24 T90S1D42-24 T90S5D42-24
T90N1D12-18 T90N5D12-12 T90S1D12-12 T90S5D12-12
T90N1D12-24 T90N5D12-24 T90S1D12-24 T90S5D12-24

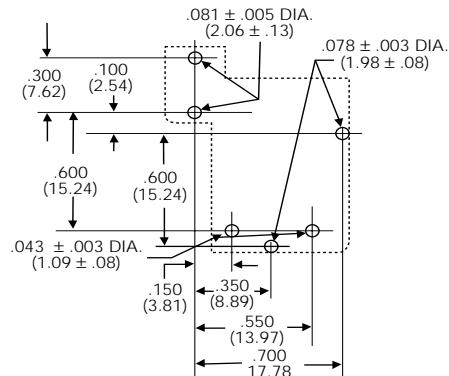
Outline Dimensions

T90N**T90S**

Wiring Diagram & PC Board Layout (Bottom Views)

1 Form C
(Unused terminals
are not present)

Note: This terminal not present with terminal code 4.



Dimensions are shown for reference purposes only.

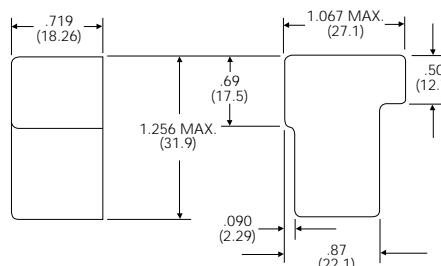
Dimensions are in inches over (millimeters) unless otherwise specified.

Optional Dust Cover For Use With Open-Style Relays

Optional plastic dust cover is a snap-on unit, open on the PC board side of the relay. The cover, when ordered with the relay, is shipped separately. It is designed to be snapped into place by the customer after the relay has been assembled to the PC board.

Cover Ordering Information – Boldface items are stocked.

Part No.	Description
35C620A	Black dust cover for use on open-style, T90N relay.



UL & CSA Contact Ratings

Voltage	Load Type	N.O. Contact	N.C. Contact
Silver Contacts			
240VAC	General Purpose	10A	5A
240VAC	Resistive	10A	5A
28VDC	Resistive	10A	5A
Silver-Cadmium Oxide Contacts			
240VAC	General Purpose	30A	15A
240VAC	UL Resistive†	20A	15A
120VAC	Motor	1 HP	1/4 HP
240VAC	Motor	2 HP	1/2 HP
240VAC	LRA/FLAT	80/30	30/10
240VAC	Tungsten	TV5	TV3
277VAC	Ballast	6A	3A
28VDC	Resistive	20A	10A

† For Form C application, derate current to 67%.

Specifications and availability
subject to change.

www.tycoelectronics.com
Technical support:
Refer to inside back cover.

NT90 (T90)



30.5 × 24.2 × 17 32.5 × 27.6 × 20.5

cac 03001003503

cUL E160644

R50126373

Features

- Small size, light weight.
- Low coil power consumption, heavy contact load.
- Strong anti-shock and anti-vibration, high reliability, long life.
- PC board mounting.
- 1.1W versions with contact gap to 2.0mm.
- Suitable for automobile, machine, electronic equipment, air conditioner and household appliances applications.

Ordering Information

NT90	R	H	A	S	DC12V	C	B	0.9
1	2	3	4	5	6	7	8	9

1 Part number: NT90(T90)
2 Terminal: R: without Pin6; NIL: With Pin6
3 Load: H:30A; N:40A
4 Contact arrangement: A:1A; B:1B; C:1C
5 Enclosure: S: Sealed type; D: Dust cover;
E: Covered; O: Open type

6 Coil rated voltage(V): AC:12,24,110,120,220
DC:3.5,6,9,12,15,18,24,48,110
7 Contact material: C: AgCdO; S: AgSnO₂
8 Resist heat class: B:130°C F:155°C
9 Coil power consumption: 0.6:0.6W; 0.9:0.9W; 1.1:1.1W
NIL:2VA

Contact Data

Contact Arrangement	1A (SPSTNO) 1B(SPSTNC) 1C(SPDT(B-M))
Contact Material	AgCdO AgSnO ₂
Contact Rating (resistive)	NO:30A/240VAC,14VDC; NC:20A/240VAC;30A/14VDC NO:40A/240VAC,30VDC; NC:30A/240VAC,30VDC (0.9W) 20A/240VAC(NT90R1.1) NO:30A/277VAC;NC:20A/277VAC Motor load: NO:2HP 250VAC ; NC:1.5HP 250VAC Lamp load: TV-5 5A/280VAC(Ballast)
Max. Switching Power	1200W 7200VA (10000VA)
Max. Switching Voltage	110VDC 300VAC Max. Switching Current:40A
Contact Resistance or Voltage drop	≤ 30mΩ Item 4.12 of IEC 61810-7
Operation life	Electrical 10 ⁵ 2×10 ⁴ (for NT90R1.1) Item 4.30 of IEC 61810-7 Mechanical 10 ⁷ 5×10 ⁶ (for NT90R1.1) Item 4.31 of IEC 61810-7

Coil Parameter

AC Coil Parameter									
Dash numbers	Rated voltage VAC		Rated current mA	Coil resistance Ω±10%	Pick up voltage VAC(max) (75% of rated voltage)	Release voltage VAC(min) (30% of rated voltage)	Coil power	Operate Time ms	Release Time ms
	Rated	Max							
012AC	12	15.6	187	27	9.0	3.6		—	—
024AC	24	31.2	95	120	18.0	7.2		—	—
110AC	110	143	20	2360	82.5	33.0	2VA	—	—
120AC	120	156	16.5	3040	90.0	36.0		—	—
220AC	220	286	6.4	13490	165.0	66.0		—	—

CAUTION: 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
2.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

Coil Parameter

DC Coil Parameter							
Dash numbers	Rated voltage V		Coil resistance Ω±10%	Pick up voltage V(max) (75% of rated voltage)	Release voltage V(min) (10% of rated voltage)	Coil power W	Operate Time ms
	Rated	Max					
003-900	3	3.9	10	2.25	0.3		
005-900	5	6.5	28	3.75	0.5		
006-900	6	7.8	40	4.50	0.6		
009-900	9	11.7	90	6.75	0.9		
012-900	12	15.6	160	9.00	1.2	0.9	≤15
015-900	15	19.5	250	10.25	1.5		
018-900	18	23.4	360	13.50	1.8		
024-900	24	31.2	640	18.00	2.4		
048-900	48	62.4	2560	36.00	4.8		
110-900	110	143	13445	82.50	11.0		

DC Coil Parameter

Dash numbers	Rated voltage V		Coil resistance Ω±10%	Pick up voltage V(max) (80% of rated voltage)	Release voltage V(min) (10% of rated voltage)	Coil power W	Operate Time ms	Release Time ms
	Rated	Max						
003-600	3	3.9	15	2.25	0.3			
005-600	5	6.5	42	3.75	0.5			
006-600	6	7.8	60	4.50	0.6			
009-600	9	11.7	135	6.75	0.9			
012-600	12	15.6	240	9.00	1.2	0.6	≤15	≤10
015-600	15	19.5	375	10.25	1.5			
018-600	18	23.4	540	13.50	1.8			
024-600	24	31.2	960	18.00	2.4			
048-600	48	62.4	3840	36.00	4.8			
110-600	110	143	20167	82.50	11.0			

CAUTION: 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
2.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

Operation condition

Insulation Resistance	1000MΩ min (at 500VDC)	Item 7 of IEC 60255-5
Dielectric Strength Between contacts	50Hz 1500V	Item 6 of IEC 60255-5
Between contact and coil	50Hz 2500V 4000V (without Pin 6)	Item 6 of IEC 60255-5
Shock resistance	200m/s ² 11ms	IEC 68-2-27 Test Ea
Vibration resistance	10Hz~55Hz double amplitude 1.5mm	IEC 68-2-6 Test Fc
Terminals strength	10N	IEC 68-2-21 Test Ua1
Solderability	235°C ± 2°C 3s ± 0.5s	IEC 68-2-20 Test Ta method 1
Ambient Temperature	-55°C~100°C -55°C~125°C	
Relative Humidity	85% (at 40°C)	IEC 68-2-3 Test Ca
Mass	27g (Open type) 30g	

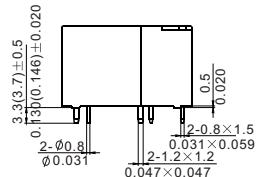
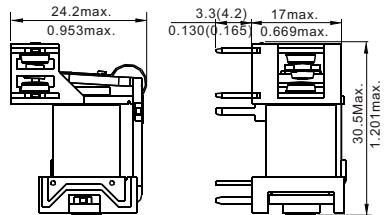
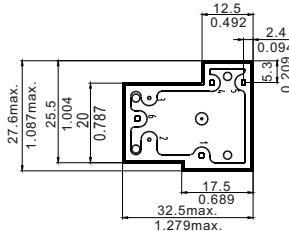
FORWARD RELAYS

Safety approvals

Safety approval	UL&CUR	TÜV	CQC
Load	NO:40A/240VAC 30A/277VAC NC:30A/240VAC,30VDC 20A/277VAC Ballast:5A/280VAC TV-5 HP: NO:2 HP 250VAC A:1HP/16AFLA/120VAC 2HP/12AFLA/240VAC NC: 1½ HP 250VAC B:30LRA/10AFLA/120VAC 30LRA/10AFLA/240VAC	NO:40A/240VAC 14VDC 30A/277VAC NC:30A/240VAC 14VDC 20A/277VAC	NO:30A/240VAC NC:20A/240VAC

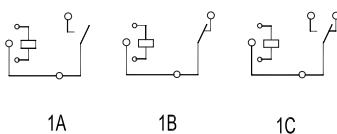
Dimensions

mm /inch

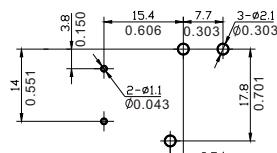


Open type

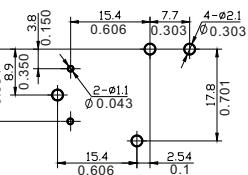
Dimensions



Wiring diagram(Bottom view)



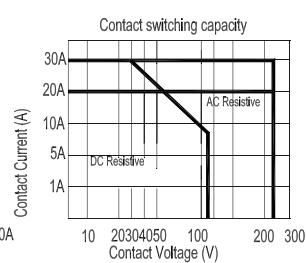
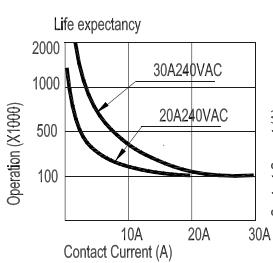
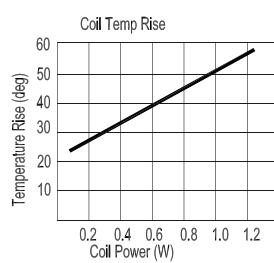
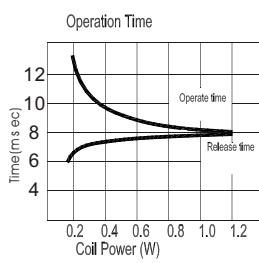
Mounting (Bottom view)



NOTES 1).Dimensions are in millimeters.

2).Inch equivalents are given for general information only.

Reference Data



NT90 (T90)



30.5 × 24.2 × 17 32.5 × 27.6 × 20.5



03001003503



E9930952E01



E160644



R2033977

Patent No.: 95213824.7 99218304.9

99312549.2 01311661.4 02110881.1

Features

- Small size, light weight. Low coil power consumption, heavy contact load. Strong anti-shock and anti-vibration, high reliability, long life.
- PC board mounting.
- Suitable for automobile, machine, electronic equipment, air conditioner and household appliances applications.

Ordering Information

NT90 R H A S DC12V C B 0.9

1	2	3	4	5	6	7	8	9
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1 Part number: NT90(T90)

2 Terminal: R: without Pin6; NIL: With Pin6

3 Load: H:30A; N:40A

4 Contact arrangement: 1A:1A; 1B:1B; 1C:1C

5 Enclosure: S: Sealed type; D: Dust cover;
E: Covered; O: Open type

6 Coil rated voltage(V): AC:12,24,110,120,220

DC:3,5,6,9,12,15,18,24,48,110

7 Contact material: C: AgCdO; S: AgSnO₂; I: AgSnO₂In₂O₃

8 Resist heat class: B:130°C F:155°C

9 Coil power consumption: 0.6:0.6W; 0.9:0.9W
NIL:2VA**Contact Data**

Contact Arrangement	1A (SPSTNO) 1B(SPSTNC) 1C(SPDT(B-M))
Contact Material	AgCdO AgSnO ₂ AgSnO ₂ In ₂ O ₃
Contact Rating (resistive)	NO:30A/240VAC,14VDC; NC:20A/240VAC:30A/14VDC NO:40A/250VAC,30VDC; NC:30A/250VAC,30VDC (0.9W) NO:30A/277VAC;NC:20A/277VAC Motor load: 2HP 250VAC ; 1.5HP 250V Lamp load: TV-5
Max. Switching Power	1100W 7200VA
Max. Switching Voltage	110VDC 250VAC
Contact Resistance or Voltage drop	≤ 30mΩ
Operation life	Item 3.12 of IEC255-7 10 ⁵ Electrical 10 ⁷ Mechanical
	Max. Switching Current:40A Item 3.30 of IEC255-7 Item 3.31 of IEC255-7

Coil Parameter

AC Coil Parameter

Dash numbers	Rated voltage VAC		Rated current mA	Coil resistance Ω ± 10%	Pick up voltage VAC(max) (75% of rated voltage)	Release voltage VAC(min) (30% of rated voltage)	Coil power	Operate Time ms	Release Time ms
	Rated	Max							
012AC	12	15.6	187	27	9.0	3.6			
024AC	24	31.2	95	120	18.0	7.2			
110AC	110	143	20	2360	82.5	33.0			
120AC	120	156	16.5	3040	90.0	36.0			
220AC	220	286	6.4	13490	165.0	66.0			

CAUTION: 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.

2.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

Coil Parameter

DC Coil Parameter								
Dash numbers	Rated voltage V		Coil resistance $\Omega \pm 10\%$	Pick up voltage V(max) (75% of rated voltage)	Release voltage V(min) (10% of rated voltage)	Coil power W	Operate Time ms	Release Time ms
	Rated	Max						
003-900	3	3.9	10	2.25	0.3			
005-900	5	6.5	28	3.75	0.5			
006-900	6	7.8	40	4.50	0.6			
009-900	9	11.7	90	6.75	0.9			
012-900	12	15.6	160	9.00	1.2	0.9	<15	<10
015-900	15	19.5	250	10.25	1.5			
018-900	18	23.4	360	13.50	1.8			
024-900	24	31.2	640	18.00	2.4			
048-900	48	62.4	2560	36.00	4.8			
110-900	110	143	13445	82.50	11.0			
<hr/>								
003-600	3	3.9	15	2.25	0.3			
005-600	5	6.5	42	3.75	0.5			
006-600	6	7.8	60	4.50	0.6			
009-600	9	11.7	135	6.75	0.9			
012-600	12	15.6	240	9.00	1.2	0.6	<15	<10
015-600	15	19.5	375	10.25	1.5			
018-600	18	23.4	540	13.50	1.8			
024-600	24	31.2	960	18.00	2.4			
048-600	48	62.4	3840	36.00	4.8			
110-600	110	143	20167	82.50	11.0			

CAUTION: 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.

2.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

Operation condition

Insulation Resistance	1000M Ω min (at 500VDC)	Item 7 of IEC255-5
Dielectric Strength Between contacts Between contact and coil	50Hz 1500V 50Hz 2500V 4000V (without Pin 6)	Item 6 of IEC255-5 Item 6 of IEC255-5
Shock resistance	200m/s ² 11ms	IEC68-2-27 Test Ea
Vibration resistance	10~55Hz double amplitude 1.5mm	IEC68-2-6 Test Fc
Terminals strength	10N	IEC68-2-21 Test Ua1
Solderability	235°C ± 2°C 3 ± 0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-55~100°C -55~125°C	
Relative Humidity	85% (at 40°C)	IEC68-2-3 Test Ca
Mass	27g (Open type) 30g	

Qualification inspection:

Perform the qualification test as specified in the table JV of IEC255-19-1 and minimum sample size 24.

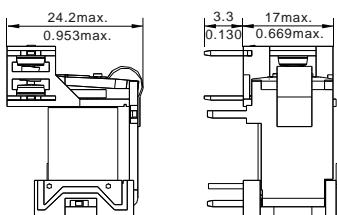
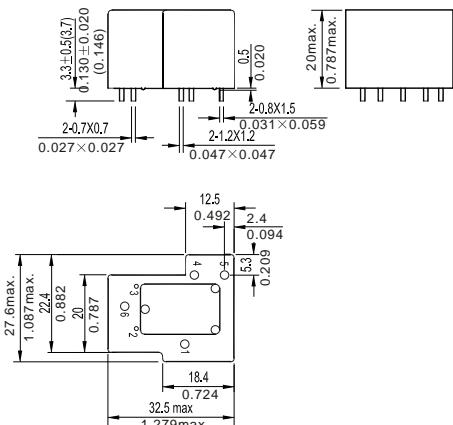
FORWARD RELAYS

Safety approvals

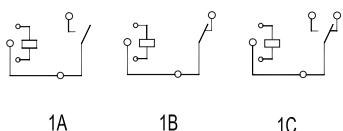
Safety approval	UL&CUR	TÜV	CQC
Load	NO:40A/240VAC 30A/277VAC NC:30A/240VAC 20A/277VAC 2 HP 250VAC TV-5 $1\frac{1}{2}$ HP 250VAC HP:A 1HP/16AFLA/120VAC 2HP/12AFLA/240VAC B 30LRA/10AFLA/120VAC 30LRA/10AFLA/240VAC Insulation: B-class F-class	NO:40A/240VAC 14VDC NC:30A/240VAC 14VDC Insulation: B-class F-class	NO:30A/240VAC NC:20A/240VAC

Dimensions

mm /inch

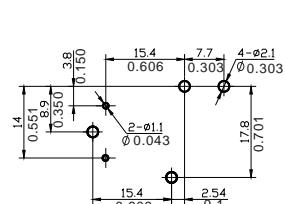
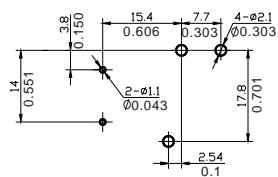


Open type



Wiring diagram(Bottom view)

Dimensions

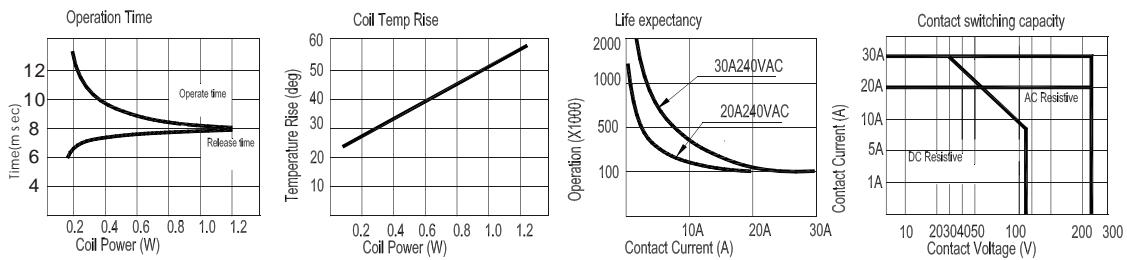


Mounting (Bottom view)

NOTES 1).Dimensions are in millimeters.

2).Inch equivalents are given for general information only.

Reference Data





32.5 × 27.6 × 20.5

NT90L

13002104039

c UL E160644

Features

- Single and double coils magnet latching relay available.
- Switching capacity up to 50A.
- Energy saving and environmental friendly product.

Ordering Information

NT90L 30 A S DC12V 0.9 D

1	2	3	4	5	6	7
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1 Part number: NT90L
 2 Load: 30A,40A,50A/277VAC,28VDC (Resistive load)
 5000W 240VAC (Incandescent Lamp)
 5A/280VAC;
 16A/280VAC(50A) (Electronic ballast)
 2HP 250VAC ;5HP 277VAC(50A) (Motor load)
 3 Contact arrangement: A:1A; B:1B; C:1C

4 Enclosure: S: Sealed type; E: Covered; N:Open
 5 Coil rated voltage(V): 5,12,24,48
 6 Coil power consumption: 0.9:0.9W;1.5:1.5W;
 7 Coil: NIL:Singal coil; D:Double coils

Contact Data

Contact Arrangement	1A (SPSTNO) 1B(SPSTNC) 1C(SPDT(B-M))		
Contact Material	AgSnO ₂		
Contact Rating (Resistive)	30A,40A/277VAC,28VDC 3×10^4 ; 50A/277VAC 5×10^4 OPS (Resistive load) ; 5000W 240VAC 3×10^4 OPS; (Incandescent Lamp) ; 5A/280VAC 6000 OPS (Electronic ballast) ; 2HP 250VAC 2×10^4 OPS;5HP 277VAC 3×10^4 OPS; (Motor load) ;		
Max. Switching Power	1200W 12000VA;1500W 12500VA		
Max. Switching Voltage	110VDC 300VAC Max. Switching Current:50A		
Contact Resistance or Voltage drop	$\leq 20\text{m}\Omega$ Item 4.12 of IEC 61810-7		
Operation life	Electrical	See contact rating	Item 4.30 of IEC 61810-7
	Mechanical	10^6	Item 4.31 of IEC 61810-7

Coil Parameter

Single Coil Parameter								
Dash numbers	Rated voltage VDC	Coil resistance $\Omega \pm 10\%$	Switching voltage VDC (80% of rated voltage)	Operating voltage range VDC	Plus magnitude ms	Coil power	Operate Time ms	Reset Time ms
005-900	5	28	4.0	5~6				
012-900	12	160	9.6	12~14.4	≥ 100	0.9W	≤ 15	≤ 15
024-900	24	640	19.2	24~28.8				
048-900	48	2560	38.4	48~57.6				

Dash numbers	Rated voltage VDC	Coil resistance $\Omega \pm 10\%$	Switching voltage VDC (<80% of rated voltage)	Operating voltage range VDC	Plus magnitude ms	Coil power W	Operate Time ms	Reset Time ms
Double Coil Parameter								
005-1500	5	17	4.0	5~6				
012-1500	12	96	9.6	12~14.4	≥ 100	1.5W	≤ 15	≤ 15
024-1500	24	384	19.2	24~28.8				
048-1500	48	1536	38.4	48~57.6				

CAUTION: 1. When latching relays are installed in equipment, the latch and reset coil should not be powered simultaneously. Coil should not be pulsed with less than the nominal coil voltage and pulse width should be a minimum of three times the specified operate time of the relay. If these conditions are not followed, it is possible for the relay to remain in the magnetically neutral position.
 2. Switching voltage is for test purpose only and are not to be used as design criteria.

Safety approvals

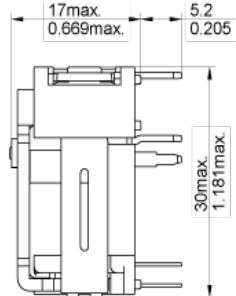
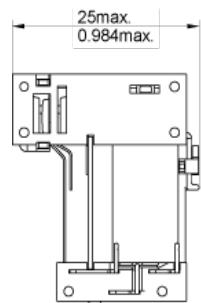
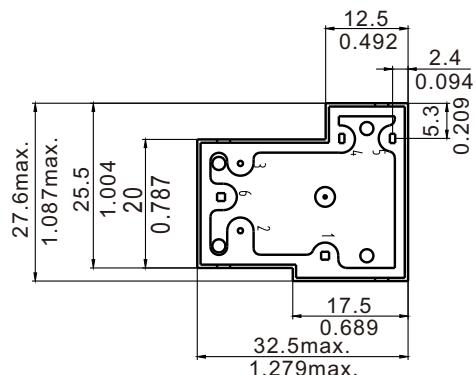
Safety approval	UL&CUR	CQC
Load	30A,40A/277VAC	30A,40A/277VAC

Operation condition

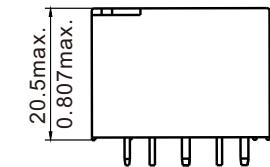
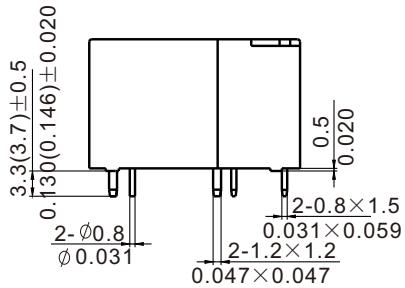
Insulation Resistance	1000M Ω min (at 500VDC)	Item 7 of IEC 60255-5
Dielectric Strength Between contacts	50Hz 1500V 1min	Item 6 of IEC 60255-5
Between contact and coil	50Hz 2500V 4000V 1min	Item 6 of IEC 60255-5
Shock resistance	200m/s ² 11ms	IEC 68-2-27 Test Ea
Vibration resistance	10Hz~55Hz double amplitude 1.5mm	IEC 68-2-6 Test Fc
Terminals strength	10N	IEC 68-2-21 Test Ua1
Solderability	235°C $\pm 2^\circ C$ 3s ± 0.5 s	IEC 68-2-20 Test Ta method 1
Ambient Temperature	-40°C~85°C	
Relative Humidity	85% (at 40°C)	IEC 68-2-3 Test Ca
Mass	28g	

Dimensions

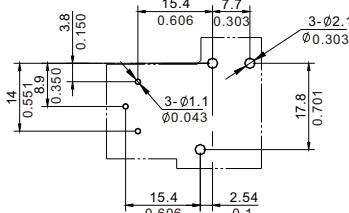
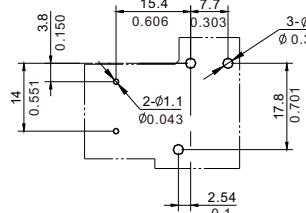
mm /inch



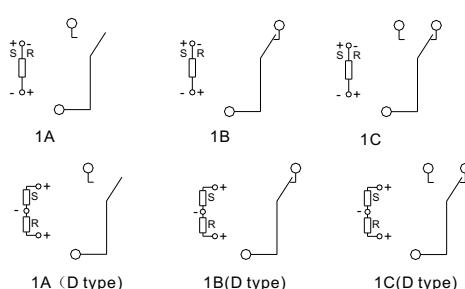
Open type



Dimensions



D type
Mounting (Bottom view)



S:Set R:Reset

Wiring diagram(Bottom view)

NOTES 1).Dimensions are in millimeters.

2).Inch equivalents are given for general information only.

3).Relays shall have plus (+) or plus (-) and minus signs placed on the circuit diagram as shown.

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