

NEW ANALOG TIMER – T38A/T48A/TF62A

**JAN. 13, 2023.
Global Business Department**

HANYOUNG nux

WORLD LEADER IN CONTROL & MEASUREMENT

1. Summary

Before

T38N

T48N

T57N

< TF62N
TF62D



After

T38A

T48A

T38A + BRACKET

TF62A

2. Appearance – T38A

Before
(T38N)



After
(T38A)



2. Appearance – T48A

Before
(T48N)



After
(T48A)



2. Appearance – TF62A

Before
(TF62N)



After
(TF62A)




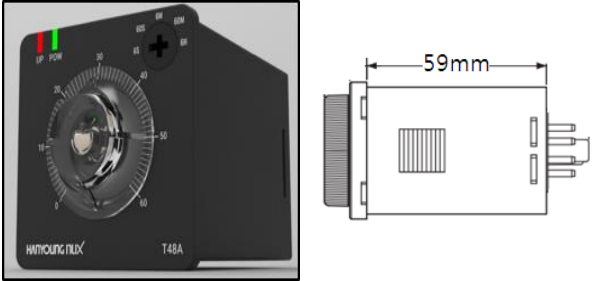
1. COMPARISON FOR T38N & T38A (1)

Model	T38N (21 types)	T38A (3 types)
Appearance		
Dimension	40.5 X 50.5 X 59 mm	38 X 42 X 59 mm
Power supply voltage	24-240 VAC, 24-240 VDC(dual usage)	24-240 VAC, 24-240 VDC(dual usage)
Operating mode	POW ON START	T38A(NL/NI/OS/FN/FF/IT)
Time range	7 types, (1s/1m/1h),(3s/3m/3h),(6s/6m/6h),(10s/10m/10h) (30s/30m/30h), (60s/60m/60h), (12h/24h/48h)	3 types, (1s/1m/1h/10s/10m/10h) (3s/3m/3h/30s/30m/30h), (6s/6m/6h/60s/60m/60h)
Operating time	0.1 sec ~ 60 hour	0.1 sec ~ 60 hour
Option (Bracket)		58x85mm panel type bracket (for T57N) 48x59mm panel type bracket

1. COMPARISON FOR T38N & T38A (2)

Model	T38N (21 types)	T38A (3 types)
Contact composition	Time-limit 1c + instantaneous 1a (T38N-A) Time-limit 1c + instantaneous 1c (T38N-B), Time-limit 2c (T38N-C)	Changes according to operating mode Time-limit 2c, (time-limit 1c + instantaneous 1c)
Contact capacity	NC (250 VAC 2A), NO (250 VAC 5A), resistive load	NC (250 VAC 2A), NO (250 VAC 5A), resistive load
Relay life span	Electrical (50 thousand times), mechanical(10 million times)	Electrical (50 thousand times), mechanical(10 million times)
Input condition	No external input	Impedance(when disconnected) : 2 K Ω max residual voltage(when disconnected) : 0.7 VDC max Impedance(when opened) : 100 K Ω min
Minimum input signal time	-	20ms min
Mounting structure	Exposure type [Panel type bracket(48 X 59mm) sold separately]	Exposure type (48 X 59mm panel type bracket included)
58 X 85mm replacement	T57N has exposure type and panel type separately	panel type bracket (58 X 85mm) sold separately for replacing T57N
Error	repeat : $\pm 0.3\%$ max, voltage : $\pm 0.5\%$ max setting : $\pm 5\%$ max, temperature : $\pm 2\%$ max	repeat : $\pm 0.3\%$ max, voltage : $\pm 0.5\%$ max setting : $\pm 5\%$ max, temperature : $\pm 2\%$ max
Operating ambient temperature	-10~50°C, storage temperature: -20~65°C	-10~55°C, storage temperature: -20~65°C
Certification	CE	CE

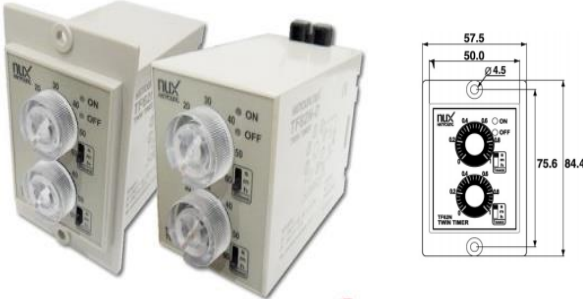



2. COMPARISON FOR T48N & T48A (1)

Model	T48N (21 types)	T48A (8 types)
Appearance		
Dimension	48 X 48 X 63.7 mm	48 X 48 X 59 mm
Power supply voltage	24-240 VAC, 24-240 VDC(dual usage)	24-240 VAC, 24-240 VDC(dual usage)
Operating mode	POW ON START	POW ON START
Time range	7types, (1s/1m/1h), (3s/3m/3h), (6s/6m/6h), (10s/10m/10h) (30s/30m/30h), (60s/60m/60h), (12h/24h/48h)	4types, (1s/1m/1h/10s/10m), (3s/3m/3h/30s/30m), (6s/6m/6h/60s/60m), (12s/12m/12h/24h/48h)
Operating time	0.1 sec ~ 60 hour	0.1 sec ~ 48 hour
Contact composition	Time-limit 1c + instantaneous 1a (T48N-A) Time-limit 1c + instantaneous 1c (T48N-B) Time-limit 2c (T48N-C)	Time-limit 1c + instantaneous 1c (T48A-B) Time-limit 2c (T48A-C) Time-limit 1c + instantaneous 1a (T48N-A discontinued)

2. COMPARISON FOR T48N & T48A (2)

Model	T48N (21 types)	T48A (8 types)
Contact capacity	NC (250 VAC 2A), NO (250 VAC 5A), resistive load	NC (250 VAC 2A), NO (250 VAC 5A), resistive load
Relay life span	Electrical (50 thousand times), mechanical(10 million times)	Electrical (50 thousand times), mechanical(10 million times)
Mounting structure	Panel type	Panel type
Repeat error	±0.3% max	±0.3% max
Setting error	±5% max	±5% max
Voltage error	±0.5% max	±0.5% max
Temperature error	±2% max	±2% max
Operating ambient temperature	-10~50°C, storage temperature : -20~65°C	-10~55°C, storage temperature: -20~65°C
Certification	CE	CE

3. COMPARISON FOR TF62N & TF62A (1)

Model	TF62N (6 types)	TF62A (3 types)
Appearance		
Dimension	50 X 62 X 82 mm	38 X 42 X 59 mm
Power supply voltage	24–240 VAC, 24-240 VDC(dual usage)	24–240 VAC, 24-240 VDC(dual usage)
Operating mode	FLICKER ON START	NL/NI/FL/FI/DU (support TF62D operating mode)
Time range	6types, (1s/1m/1h),(3s/3m/3h),(6s/6m/6h),(10s/10m/10h) (30s/30m/30h), (60s/60m/60h)	3types, (1s/1m/1h/10s/10m/10h) (3s/3m/3h/30s/30m/30h), (6s/6m/6h/60s/60m/60h)
Option (Bracket)		 58x85mm panel type bracket(for TF62N)  48x59mm panel type bracket

3. COMPARISON FOR TF62N & TF62A(2)

Model	TF62N (6 types)	TF62A (3 types)
Operating time	0.1 sec ~ 60 hour	0.1 sec ~ 60 hour
Contact composition	Time-limit 1c (TF62N) Time-limit 2c (TF62D)	Changes according to operating mode Time-limit 2c, (time-limit 1c + instantaneous 1c)
Contact capacity	NC (250 VAC 2A), NO (250 VAC 5A), resistive load	NC (250 VAC 2A), NO (250 VAC 5A), resistive load
Relay life span	Electrical (50 thousand times), mechanical(10 million times)	Electrical (50 thousand times), mechanical(10 million times)
Mounting structure	2 options - Exposure type & Panel type	Exposure type (48 X 59mm panel type bracket included)
58X85mm replacement	exposure type(50 X 62mm), panel type (58 X 85mm)	panel type bracket (58 X 85mm) sold separately for replacing TF62N
Error	repeat : ±0.3% max, voltage : ±0.5% max setting : ±5% max, temperature : ±2% max	repeat : ±0.3% max, voltage : ±0.5% max setting : ±5% max, temperature : ±2% max
Operating ambient temperature	-10~50°C, storage temperature: -20~65°C	-10~55°C, storage temperature: -20~65°C
Certification	CE	CE

4. Replaced Part Code

Before Part Code	After Part Code
T38N-01A	T38A-1N-A
T38N-01B	T38A-1N-A
T38N-01C	T38A-1N-A
T38N-03A	T38A-3N-A
T38N-03B	T38A-3N-A
T38N-03C	T38A-3N-A
T38N-06A	T38A-6N-A
T38N-06B	T38A-6N-A
T38N-06C	T38A-6N-A
T38N-10A	T38A-1N-A
T38N-10B	T38A-1N-A
T38N-10C	T38A-1N-A
T38N-12A	Discontinued
T38N-30A	T38A-3N-A
T38N-30B	T38A-3N-A
T38N-30C	T38A-3N-A
T38N-60A	T38A-6N-A
T38N-60B	T38A-6N-A
T38N-60C	T38A-6N-A

Before Part Code	After Part Code
T48N-01A	T48A-1B-A
T48N-01B	T48A-1B-A
T48N-01C	T48A-1C-A
T48N-03A	T48A-3B-A
T48N-03B	T48A-3B-A
T48N-03C	T48A-3C-A
T48N-06A	T48A-6B-A
T48N-06B	T48A-6B-A
T48N-06C	T48A-6C-A
T48N-10A	T48A-1B-A
T48N-10B	T48A-1B-A
T48N-10C	T48A-1C-A
T48N-12A	T48A-12B-A
T48N-30A	T48A-3B-A
T48N-30B	T48A-3B-A
T48N-30C	T48A-3C-A
T48N-60A	T48A-6B-A
T48N-60B	T48A-6B-A
T48N-60C	T48A-6C-A

Before Part Code	After Part Code
T57NE-01A	T38A-1N-A
T57NE-01B	T38A-1N-A
T57NE-03A	T38A-3N-A
T57NE-03B	T38A-3N-A
T57NE-06A	T38A-6N-A
T57NE-06B	T38A-6N-A
T57NE-10A	T38A-1N-A
T57NE-10B	T38A-1N-A
T57NE-12A	Discontinued
T57NE-30A	T38A-3N-A
T57NE-30B	T38A-3N-A
T57NE-30C	T38A-3N-A
T57NE-60A	T38A-6N-A
T57NE-60B	T38A-6N-A
T57NE-60C	T38A-6N-A
T57NP-01A	T38A-1N-A
T57NP-01B	T38A-1N-A
T57NP-03A	T38A-3N-A
T57NP-03B	T38A-3N-A
T57NP-06A	T38A-6N-A
T57NP-06B	T38A-6N-A
T57NP-10A	T38A-1N-A
T57NP-10B	T38A-1N-A
T57NP-10C	T38A-1N-A
T57NP-12A	Discontinued
T57NP-30A	T38A-3N-A
T57NP-30B	T38A-3N-A
T57NP-60A	T38A-6N-A
T57NP-60B	T38A-6N-A

Before Part Code	After Part Code
TF62DE-01F	TF62A-1N-A
TF62DE-03F	TF62A-3N-A
TF62DE-06F	TF62A-6N-A
TF62DE-10F	TF62A-1N-A
TF62DE-30F	TF62A-3N-A
TF62DE-60F	TF62A-6N-A
TF62DP-01F	TF62A-1N-A
TF62DP-03F	TF62A-3N-A
TF62DP-06F	TF62A-6N-A
TF62DP-10F	TF62A-1N-A
TF62DP-30F	TF62A-3N-A
TF62DP-60F	TF62A-6N-A
TF62NE-01D	TF62A-1N-A
TF62NE-03D	TF62A-3N-A
TF62NE-06D	TF62A-6N-A
TF62NE-10D	TF62A-1N-A
TF62NE-30D	TF62A-3N-A
TF62NE-60D	TF62A-6N-A
TF62NP-01D	TF62A-1N-A
TF62NP-03D	TF62A-3N-A
TF62NP-06D	TF62A-6N-A
TF62NP-10D	TF62A-1N-A
TF62NP-30D	TF62A-3N-A
TF62NP-60D	TF62A-6N-A