

Page 17-2

- **MODULAR TIME RELAYS** Suitable for modular-slot switchboards
- Selectable time ranges on front:
 0.1s...100 days
 LED indication
 Mounting on 35mm DIN rail

- Screw terminals.



Page 17-5

PLUG-IN AND FLUSH-MOUNT TIME RELAYS, 48X48MM • Flush and internal panel mounting

- Time ranges: 0.05s...10h
 LED indication
 8 and 11-pin sockets for panel mounting.

TIME RELAYS



- Modular version for modular-slot switchboards, also suitable for rear mounting plate fixing
- Plug-in or flush-mount version
- Vast range of functions and time scales
- Reliable time and repeat accuracy.

Modular version	SE	EC.	-	PAGE
On delay. Multiscale. Multivoltage		17	_	2
Multifunction. Multiscale. Multivoltage. 1 relay output				
Multifunction. Multiscale. Multivoltage. 2 relay outputs				
Recycle, independent timings. Multiscale. Multivoltage				
Off delay. Multiscale. Multivoltage		17	-	3
For starting. Multiscale. Multivoltage	. '	17	-	4
For staircase		17	-	4
Plug-in and flush-mount version, 48x48mm/1.9x1.9"				
On delay. Multiscale. Multivoltage		17	-	5
On delay. Multiscale. Single voltage		17	-	5
Multifunction. Multiscale. Multivoltage		17	-	5
Accessories		17	-	5
Dimensions	. 1	17	-	6
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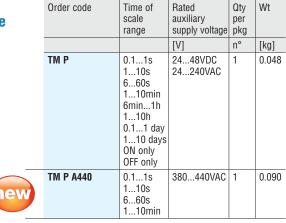






On delay time relay. **Multiscale.** Multivoltage





General characteristics

- Electronic time relay, multiscale, multivoltage. On delay, delay on make, with start at relay energising
- Electronic time relay, multiscale with 2 normally open (N/O-SPST) contacts with common pole for TM P A 440.
- 1 relay output with 1 changeover contact (SPDT)
- Delay time adjustable on front by rotary switch: 10...100%
- Green LED indicator for power on
- Red LED indicator for relay state; flashing for delay and steady when relay energised
- Modular DIN 43880 housing, 1 module
- IEC degree of protection: IP40 on front (only when mounted in housing or electric board with IP40); IP20 on terminals.

Certifications and compliance

Certifications obtained: EAC; UL Listed, for USA and Canada (cULus - File E93601) as Auxiliary Devices -

Compliant with standards: IEC/EN 61812-1, UL508, CSA C22.2 n° 14.

Operational diagram

See page 17-7.

Multifunction time relay. Multiscale. Multivoltage. 1 relay output



TM M1

Order code	Time of scale range	Rated auxiliary supply voltage	Qty per pkg	Wt
		[V]	n°	[kg]
TM M1	0.11s 110s 660s 110min 6min1h 110h 0.11 day 110 days 0N only 0FF only	12240V AC/DC	1	0.086

General characteristics

- Electronic time relay, multifunction, multiscale, multivoltage
- Enabling input
- 1 relay output with 1 changeover contact (SPDT)
- 1 relay output with 1 changeover contact (SPDT)
 Selectable functions: (a) On delay; delay on make with
 start at relay energising. (b) Pulse on relay energising
 with start when energised. (c) Flasher starting with
 OFF interval. Equal timing recycle. (d) Flasher starting
 with ON interval. Equal timing recycle. (e) Off delay;
 relay energising at external contact closing with start
 on break. (f) Pulse on relay energising with start on
 external contact closing. (g) Pulse on relay energising
 with start on external contact one relay energising with start on external contact opening. (h) On-off delay. Delay on make, with start at external contact closing, and delay at break, with start at external contact opening. (i) Internal ON/OFF trigger with relay contact closing or operating at each closing of an external contact. (j) Pulse generator, unequal timing recycle; starting with OFF pulse time and 0.5s ON
- Delay time adjustable on front by rotary switch: 10...100%
- Green LED indicator for power on
- Red LED indicator for relay state; flashing for delay and steady when relay energised
- Modular DIN 43880 housing, 1 module suitable for fixing on 35mm DIN rail (IEC/EN 60715)
- IEC degree of protection: IP40 on front (only when mounted in housing or electric board with IP40); IP20 on terminals.

Certifications and compliance

Certifications obtained: EAC; UL Listed, for USA and Canada (cULus - File E93601) as Auxiliary Devices -

Compliant with standards: IEC/EN 61812-1, UL508, CSA C22.2 n° 14.

Operational diagram

See page 17-7.

Multifunction time relay. Multiscale. Multivoltage. 2 relay outputs



TM M2

Order code	Time of scale range	Rated auxiliary supply voltage		Wt
		[V]	n°	[kg]
TM M2	0.11s 110s 660s 110min 6min1h 110h 0.11 day 110 days 0N only 0FF only	12240V AC/DC	1	0.094

General characteristics

- Electronic time relay, multifunction, multiscale, multivoltage
- Enabling input
- 2 relay outputs, one with 1 delayed changeover (C/O-SPDT) contact and the other with 1 normally open (N/O-SPST) contact, programmable as instantaneous or delayed
- Selectable functions: (a) On delay; delay on make with start at relay energising. (b) Pulse on relay energising with start when energised. (c) Flasher starting with OFF interval. Equal timing recycle. (d) Flasher starting with ON interval. Equal timing recycle. (e) Off delay; relay energising at external contact closing with start on break. (f) Pulse on relay energising with start on external contact closing. (g) Pulse on relay energising with start on external contact opening. (h) On-off delay. Delay on make, with start at external contact closing, and delay at break, with start at external contact opening. (i) Internal ON/OFF trigger with relay contact closing or operating at each closing of an external contact. (j) Pulse generator, unequal timing recycle; starting with OFF pulse time and 0.5s ON pulse.
- Delay time adjustable on front by rotary switch: 10...100%
- Green LED indicator for power on
- Red LED indicator for relay state; flashing for delay and steady when relay energised
- Modular DIN 43880 housing, 1 module suitable for fixing on 35mm DIN rail (IEC/EN 60715)
- IEC degree of protection: IP40 on front (only when mounted in housing or electric board with IP40); IP20 on terminals

Certifications and compliance

Certifications obtained: EAC; UL Listed, for USA and Canada (cULus - File E93601) as Auxiliary Devices - Timers. Compliant with standards: IEC/EN 61812-1, UL508, CSA C22.2 n° 14.

Operational diagram

See page 17-8.

Recycle time relay, independent timings. Multiscale. **Multivoltage**



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I IVI	ГΙ.

Order code	Time of scale range	Rated auxiliary supply voltage	Qty per pkg	Wt
		[V]	n°	[kg]
TM PL	0.11s 110s 660s 110min 6min1h 1h10h 0.11 day 110 days 330 days 10100 days	12240V AC/DC	1	0.082

General characteristics

- Programmable asymmetrical recycle time relay, multiscale, multivoltage. Flasher with independent timing for ON and OFF intervals
- Enabling input of ON or OFF interval
 1 relay output with 1 changeover contact (SPDT)
- Delay time for OFF (pause) interval, adjustable on front by rotary switch: 10...100%
- Delay time for ON (work) interval, adjustable on front by rotary switch: 10...100%
- Green LED indicator for power on
- Red LED indicator for relay state; flashing for delay
- Modular DIN 43880 housing, 1 module; suitable for fixing on 35mm DIN rail (IEC/EN 60715)
- IEC degree of protection: IP40 on front (only when mounted in housing or electric board with IP40); IP20 on terminals.

Certifications and compliance

Certifications obtained: EAC; UL Listed, for USA and Canada (cULus - File E93601) as Auxiliary Devices - Timers. Compliant with standards: IEC/EN 61812-1, UL508, CSA C22.2 nº 14.

Operational diagram

See page 17-9.

Off delay time relay. Multiscale. Multivoltage



Order code	Time of scale range	Rated auxiliary supply voltage	Qty per pkg	Wt
		[V]	n°	[kg]
TM D	0.060.6s 0.66s 660s 18180s	24240V AC/DC	1	0.080

General characteristics

- Electronic time relay, multiscale, multivoltage. True off delay; delay on break with start at relay de-energising
- 1 relay output with 1 changeover contact (SPDT)
- Delay time adjustable on front by rotary switch:
 10...100%
- Green LED indicator for power on
- Modular DIN 43880 housing, 1 module; suitable for fixing on 35mm DIN rail (IEC/EN 60715)
- IEC degree of protection: IP40 on front (only when mounted in housing or electric board with IP40); IP20 on terminals.

Certifications and compliance

Certifications obtained: EAC; UL Listed, for USA and Canada (cULus - File E93601) as Auxiliary Devices - Timers. Compliant with standards: IEC/EN 61812-1, UL508, CSA C22.2 n° 14.

Operational diagram



Time relay for starting. Multiscale. Multivoltage



TM ST

Order code	Time of scale range	Rated auxiliary supply voltage	Qty per pkg	Wt
		[V]	n°	[kg]
TM ST	0.11s 110s 660s 110min	2448VDC 24240VAC	1	0.090
TM ST A440	0.11s 110s 660s 110min	380440VAC	1	0.090

General characteristics

- Electronic time relay, multiscale, multivoltage for starting (star-delta, impedance, autotransformer, etc) of induction motors (squirrel cage), 2 separate timinas
- 1 relay output with 2 normally open (N/O-SPST) contacts with common pole
- Delay time adjustable on front by rotary switch:
- 10-100% for star connection Starting and transition (20...300ms time scale from star to delta), time adjustable on front by rotary
- Green LED indicator for power on
- Red LED indicator for relay state; flashing during delay and steady at delay lapsing
- Modular DIN 43880 housing, 1 module; suitable for fixing on 35mm DIN rail (IEC/EN 60715)
- IEC degree of protection: IP40 on front (only when mounted in housing or electric board with IP40); IP20 on terminals.

Certifications and compliance

Certifications obtained: EAC; UL Listed, for USA and Canada (cULus - File E93601) as Auxiliary Devices - Timers. Compliant with standards: IEC/EN 61812-1, UL508, CSA C22.2 n° 14.

Operational diagram

See page 17-10.

Time relay for staircase



TM LS

Order code	Time of scale range	Rated auxiliary supply voltage	Qty per pkg	Wt
		[V]	n°	[kg]
TM LS	0.520min	220240VAC	1	0.080

General characteristics

- Electronic time relay single scale and voltage for staircase illumination
- 1 relay output with 1 powered normally open (N/O-SPST) contact
 Delay time adjustable on front by rotary switch
 Suitable for 3 or 4-wire systems

- 1 slide switch for timed or constant lighting operation Function for one hour lighting and fast switch off Green LED indicator for power on Connection with up to 50 light-up switches maximum;
- ≤ 1mA each
 Modular DIN 43880 housing, 1 module suitable for
 fixing on 35mm DIN rail (IEC/EN 60715)
 IEC degree of protection: IP40 on front (only when mounted in housing or electric board with IP40); IP20 on terminals.

Certifications and compliance

Certifications obtained: EAC; UL Listed, for USA and Canada (cULus - File E93601) as Auxiliary Devices - Timers. Compliant with standards: IEC/EN 61812-1, UL508, CSA C22.2 n° 14.

Operational diagram

See page 17-10.

Time relays Plug-in and flush mount version 48x48mm/1.9x1.9" **Accessories**

Time relay



31 L48TP...



31 L48TPB...



31 L48M...

Order code Time Rated Wt Qty auxiliary scale per range supply pkg voltage [V] n° [kg]

Time relay on delay. Multiscale and multivoltage.

31 L48TP S 240	0.3780s		1	0.124
		24VAC/DC 110VAC		
31 L48TP M 240	18s780min	220240VAC	1	0.124
		2202 10 1710		

Time relay on delay. Multiscale and single voltage.

31 L48M H 240

31 L48TPB M24	0.05s10min	24VAC/DC	1	0.124		
31 L48TPB M240		220240VAC	1	0.124		
Time relay, multifunction, multivoltage and multiscale.						
31 L48M M 240	0.05s10min	24240V	1	0.135		

0.05min...10h AC/DC

Accessories for 48x48mm time relay





Order code	Description	Qty per pkg	Wt	
		n°	[kg]	
31 \$8	8-pin socket for screw fixing or on 35mm DIN rail (IEC/EN 60715). Screw terminals	10	0.061	
31 L48 P8	8-pin loose socket. Screw terminals	10	0.040	
31 \$11	11-pin socket for screw fixing or on 35mm DIN rail (IEC/EN 60715). Screw terminals	10	0.064	
31 L48 P11	11-pin loose socket. Screw terminals	10	0.048	
31 L48AP	Flush mount bracket	10	0.012	
N.B. Max. conductor section for sockets: 2x2 5mm²/2x14AWG				

Tightening torque: 0.8Nm/7.1lbin.

General characteristics TIME RELAY L48TP

- Electronic time relay, multiscale, multivoltage.
 On delay, delay on make with start at relay energising
 1 relay output with 1 changeover contact (SPDT)
- Delay time adjustable on front by rotary knob
- Time range selected by dip switches: L48TP S: 0.3...3s; 1.2...12s; 10...100s; 7.8...780s. L48 TP M: 18s...3min; 72s...12min; 10...100min; 78...780min
- LED indicators for power on and relay state
- Plug-in housing with 8-pin socket, 31 S8 or 31 L48 P8
- Flush mount bracket 31 L48AP available
- IEC protection degree: IP40 on front and IP20 at terminals.

Time range setting

	АВ	A B	A B	A B
	1 🔳	1 🔳	1	1
	0 🔲 🔳	0	0 🔳	0
L48TP S	0.33s	1.212s	10100s	7.8780s
L48TP M	18s3min	72s12min	10100min	78780min

TIME RELAY T48TPB

0.135

- Electronic time relay, multiscale, single voltage, multifunction
- 2 relay outputs, each with 1 changeover contact (SPDT), configurable either delay on make or instantaneous
- Delay time adjustable on front by rotary knob
- Time range selected by dip switches:
 0.05...1s; 0.1...10s; 0.6s...1min; 6s...10min
 LED indicators for power on and relay state
- Plug-in housing with 8-pin socket, 31 S8 or 31 L48 P8
 Flush mount bracket 31 L48AP available
- IEC protection degree: IP40 on front and IP20 at terminals.

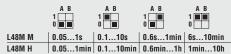
Time range setting

	A B	A B	A B	A B
	1 🔳	1 🔳	1	1 🔳
	0 🔲 🔳	0	0 🔳	0
L48TPB	0.051s	0.110s	0.6s1mi	n 6s10min

TIME RELAY L48M

- Electronic time relay, multiscale, multivoltage, multifunction
- Selectable functions: On delay, delay on make with start at relay energising. On delay, delay on break with start at relay de-energising. Flasher, starting with OFF interval. Flasher, starting with ON interval. Time relay resetting is possible on closing of external contact (R) connected to terminals 7-6. Possible time relay stopping storing elapsed time on closing of external contact (M) connected to terminals 7-5 and then restarting time on its opening. See diagrams on page 17-11
- 2 relay outputs, each with 1 changeover contact; both delayed (SPDT)
- Delay time adjustable on front by rotary knob
- Time range selected by dip switches: L48M M: 0.05...1s; 0.1...10s; 0.6s...1min; 6s...10min L48M H: 0.05...1min; 0.1...10min; 0.6min...1h; 1min...10h
- LED indicators for power on and relay state
- Plug-in housing with 11-pin socket, 31 S11 or
- Flush mount bracket 31 L48AP available
- IEC protection degree: IP40 on front and IP20 at terminals.

Time range setting



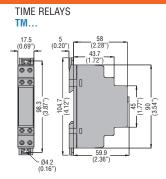
Certifications and complianceCertifications obtained: EAC; UL Recognized, for USA and Canada (cULus - File E172189) as Industrial Switches - Timer modules.
Compliant with standards: IEC/EN 61812-1, UL508, CSA C22.2 n° 14.

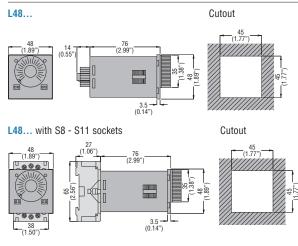
Operational diagram

See page 17-10 and 17-11.

Time relays Dimensions [mm (in)]







L48 P8

ACCESSORIES - SOCKETS 88 - \$11



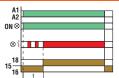
27 (1.06")

43.5 (1.71") (0.81") (0.81") (0.81") (0.81") (0.81") (0.81") L48 P11

17

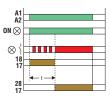


On delay. Delay on make, with start at relay energising.



TM P A440 On delay. Delay on make, with start at relay energising.



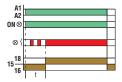


TM M1



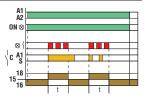
On delay. Delay on make, with start at relay energising





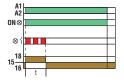
Pulse on relay energising with start at external contact closing





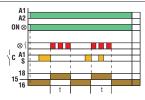
Pulse on relay energising with start on energising





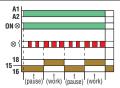
Pulse on relay energising with start at external contact opening





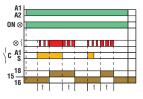
Flasher, starting with OFF (pause) interval. Equal timing recycle.





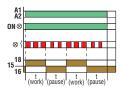
On-Off delay. Delay on make, with start at external contact closing, and delay at break, with start at external contact opening.





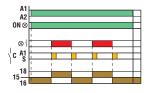
Flasher, starting with ON (work) interval. Equal timing recycle.





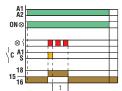
Internal ON/OFF trigger. Relay contact either closes or opens at each external contact closing.





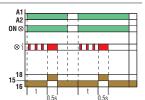
Off delay. Relay energising at external contact closing with start on break



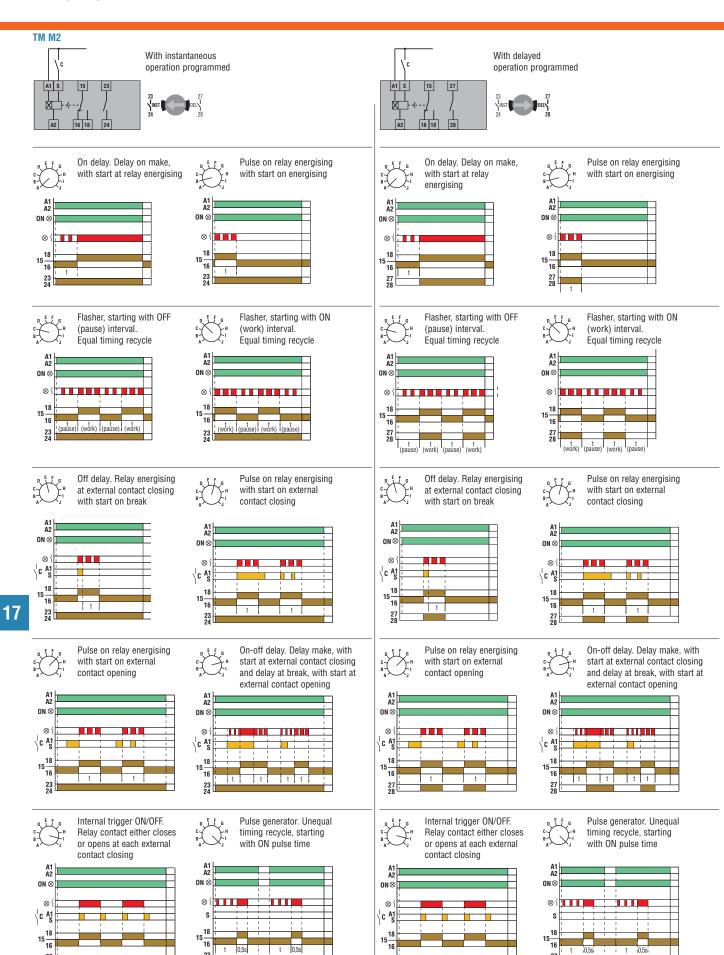


Pulse generator. Unequal timing recycle, starting with OFF pulse time and 0.5sec ON time.







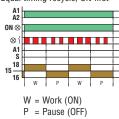


28

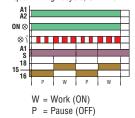
24



Flasher, starting with ON interval. Equal timing recycle, ON first



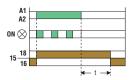
Flasher, starting with OFF interval. Equal timing recycle, OFF first



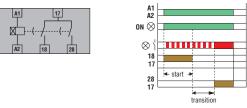
TM D

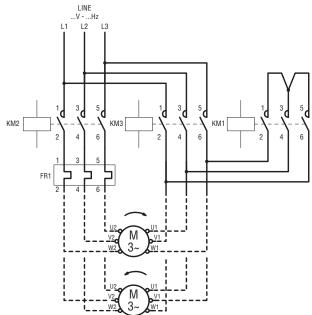


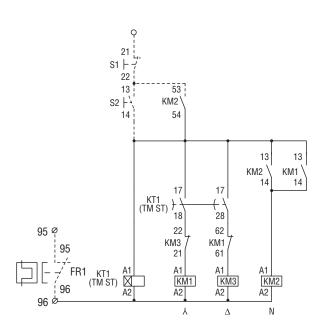
True off delay. Delay on break, starting at relay de-energising



TM ST For starting

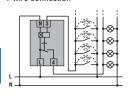


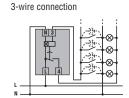


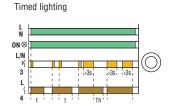


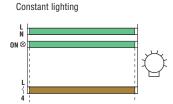
TM LS Staircase lighting

4-wire connection



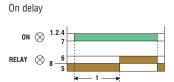






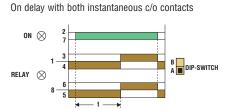
L48TP...





L48TPB...





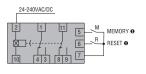




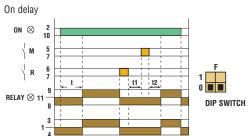
Time relays Wiring diagrams

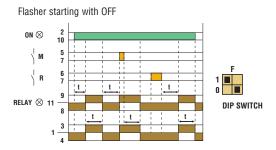


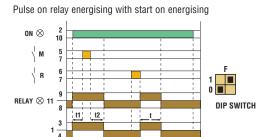
L48M...

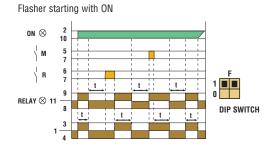


T (preset time) = T1+T2
• Contacts "M" and "R" are to be volt free (dry).









Time relays Technical characteristics **Modular version**



TVDE	T11 D	T14 D 4440	700 004	T11 110	T14 D1	n	T11.0T	T11.0		
TYPE	TM P	TM P A440	TM M1	TM M2	TM PL	TM D	TM ST	TM LS		
DESCRIPTION	1			I						
	On delay	On delay	Programmable multifunction	Programmable multifunction timing	Asymmetrical recycle	True off delay	For starting	Staircase illumination		
	Multiscale	Multiscale	Multiscale	Multiscale	Multiscale	Multiscale	Multiscale	Single scale		
	Multivoltage	Single voltage	Multivoltage	Multivoltage	Multivoltage	Multivoltage	Multivoltage	Single voltage		
CONTROL CIRCUIT	auronago	onigio vontago	auronago	avoitage				_ og.o roago		
Rated auxiliary supply voltage Us	2448VDC 24240VAC	380440VAC		12240VAC/DC		24240VAC/DC	2448VDC 24240VAC 380440VAC	220240VAC		
Rated frequency				50/6	60Hz					
Operating voltage range				0.85-	1.1 Us					
Power consumption (maximum) 1.2VA/0.8W max (2448VAC/DC) 16VA/0.9W max (110240VAC/DC)	19VA/1.7W max	0.6VA/0.3W max (1248VAC/DC) 1.6VA/1.2W max (110240VAC/DC)	1.1VA/0.8W max (1248VAC/DC) 1.8VA/1.2W max (110240VAC/DC)	0.6VA/0.3W max (1248VAC/DC) 1.6VA/1.2W max (110240VAC/DC)	0.1VA/0.1W (2448VAC/DC) 1.1VA/0.8W (110240VAC/DC)	1.2VA/0.8W max (2448VAC/DC) 1.6VA/0.9W max (110240VAC)❶	De-energised 5VA/0.5W max Energised 12VA/0.8W max		
TIMING CIRCUIT			,	,	,	,	,			
Time setting range	Multiscale 0.11s 110s 6s60s 110min 6min1h 110h 0.11day 110days 0N only 0FF only	Multiscale 0.11s 110s 6s60s 110min	Multiscale 0.11s 110s 6s60s 110min 6min1h 110h 0.11day 110days ON only OFF only	Multiscale 0.11s 110s 6s60s 110min 6min1h 110h 0.11day 110days ON only OFF only	Multiscale 0.11s 110s 6s60s 110min 6min1h 1h10h 0.11day 110days 330days 10100days	Multiscale 0.060.6s 0.66s 6s60s 18s180s	Multiscale 0.11s 110s 6s60s 110min	Single scale 0.520min		
Setting accuracy				< ±	9%		I			
Repeat accuracy	< ±0,1% < ±0,5% < ±0,5% < ±0,2% < ±0,5%									
Influence of voltage variation	< ±0.01%						< ±0.5%			
Average variation of at -20°C set delays related to +20°C condition				< ±0.2%				< ±0.25%		
Minimum power time	_		_	_		≥ 200ms	_	_		
Minimum ON time	_		25n	ns (no maximum l	imit)	_	_	≥ 60ms (no max lim		
Resetting during timing		≥ 100ms	≥ 100ms	≥ 100ms	≥ 100ms	_	≥ 100ms	≥ 100ms		
time elapsed time	≥ 50ms	≥ 50ms	≥ 50ms	≥ 50ms	≥ 50ms	_	≥ 50ms			
Immunity time for microbreakings	s ≤ 50ms		≤ 25ms	≤ 15ms	≤ 25ms	_	≤ 40ms ②	≤ 20ms		
RELAY OUTPUTS				1		ı	ı			
Contact arrangement	1 delayed	2 delayed	1 delayed	1 inst./delayed N/O		1 delayed	2 delayed N/O	1 delayed N/O		
Maximum switching voltage	changeover	changeover	changeover	+ 1 delayed c/o	changeover VAC	changeover				
IEC conventional free air	8A	8A	8A	8A	8A	5A	8A	16A		
thermal current (Ith)	UA	0/1	UA	UA UA	J OA	JA	OA	IUA		
UL/CSA and IEC/EN 60947-5-1 designation				B300				16A AC1 240VAC		
Electrical life (with rated load)		10 ⁵ cycles								
Mechanical life		30x10 ⁶ cycles								
Tightening torque maximum										
Conductor section min-max 0.24mm² (2412 AWG; 1218 AW				'G per UL)						
INSULATION (input-output)										
IEC rated insulation voltage		250V								
IEC rated impulse withstand voltage				41	kV					
IEC power frequency withstand voltage				2	kV					
AMBIENT CONDITIONS										
AMBIENT CONDITIONS Operating temperature				-20	+60°C					
					+60°C +80°C					

For 380...440VAC types: 19VA/1.7W max.

Used at 24...48VDC or 24...240VAC; =30ms at 380...440VAC.

NOTE: N/O = normally open / SPST

c/o = changeover / SPDT; inst. = instantaneous.

Time relays Technical characteristics Plug-in and flush mount version 48x48mm/1.9x1.9"



YPE	L48TP	L48TPB	L48M				
ESCRIPTION							
	On delay	On delay	Programmable multifunction				
	Multiscale	Multiscale	Multiscale				
	Multivoltage	Single voltage	Multivoltage				
ONTROL CIRCUIT							
ated supply	24VAC/DC•	24VAC/DC❶	24240VAC/DC				
oltage Us	110VAC ①	220240VAC ❶					
	220240VAC ①						
ated frequency		5060Hz					
perating voltage range	0.851.1 Us						
ower consumption (maximum)		6VA					
lower dissipation (maximum)		2					
IMING CIRCUIT	Multipoolo	Multippala	Multipople				
ime setting range	Multiscale 0.33s	Multiscale 0.051s	Multiscale 0.051s				
	0.33s 1.212s	0.0518 0.1010s	0.0518 0.110s				
	1.212s 10100s	0.1010s 0.6s1min	0.110s 0.6s1min				
	7.8780s	0.6s1min 6s10min	0.6s1min 6s10min				
<u> </u>	7.87808 18s3min	05 I UIIIIII	0.0510min				
	72s12min		0.110min				
	10100min		0.11011111 0.6min1h				
	78780min		1min10h				
etting accuracy	70700111111	±5%	11111111011				
depeat accuracy		±0.5%					
of voltage variation		±0,5%					
verage variation of							
et delays in related at –20°C	+2%						
20°C condition at +60°C		-3%					
Minimum ON time		<u></u>					
during operation	≥ 0.1s	≥ 0.1s	≥ 0.1s				
me elasped time	≥ 65ms	≥ 65ms	≥ 65ms				
mmunity time for microbreakings	≤ 40ms	≤ 40ms	≤ 40ms				
ELAY OUTPUTS							
umber of relays	1	2	2				
ontact arrangement	1 delayed c/o	2 del. or 1 inst. + 1 del. c/o	2 delayed c/o				
Maximum switching voltage		250V					
EC conventional free air thermal current th)		5A					
L/CSA and IEC/EN 60947-5-1 designation	B300						
lectrical life (with rated load)	10 ⁵ cycles						
Mechanical life	30x10 ⁶ cycles						
ONNECTIONS							
ightening torque maximum		_					
onductor section (min-max)	_						
NSULATION (input-output)							
C rated insulation voltage Ui	250V						
C power frequency withstand voltage imp							
EC power frequency withstand voltage		2kV					
MBIENT CONDITIONS							
perating temperature		-10+60°C					
torage temperature		−30+80°C					
lousing material	Self-extinguishing polyamide						

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