



TH23 series (with reset function)



TH13 series (without reset function)

RoHS Directive compatibility information http://www.nais-e.com/

Specifications

IOUR	METER	

TH13.TH23 Hour Meters

UL File No.: E42876 CSA File No.: LR39291



Features

1. High-performance compact synchronous motor

The accurately turning motor is employed to provide for longer period of measurement. **2. Compact and stylish**

- 3. Easier wiring
- The flat terminals (#187) are quick and easy to connect.
- 4. Rotary indicator
- The rotary indicator makes one turn every 2 minutes for monitoring.

5. Compliant with UL, CSA and CE.

Typical applications

Maintenance management of machine tools, automated machines, control panels, forming machines, medical equipment, generators, compressors, water treatment facilities, presses, motors, etc.

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Rated operating voltage		100V AC, 200V AC, 110V AC	c, 115 to 120V AC, 220V AC, 240V AC	
Allowable operating volt	age range	85 to 115% of rated operating voltage		
Rated frequency		50 Hz, 60 Hz (other model)		
Counting range		0 to 99999.9 hours (TH13 series) 0 to 9999.9 hours (TH23 series)		
Minimum time display		0.1 hours (6 min)		
Rated power consumption	on	Ар	prox. 1.5 W	
Insulation resistance (In	itial value)	Min. 100 M Ω , Between live and dead metal parts (At 500V DC)		
Breakdown voltage (Initi	al value)	2,000 Vrms, Betwee	en live and dead metal parts	
Max. temperature rise		55°C 131°F		
Vibration resistance	Functional	10 to 55 Hz: 1 cycle/min double amplitude of 0.5 mm (10 min on 3 axes)		
Charle variation of	Functional	Min. 98 m/s² {10	0 G} (4 times on 3 axes)	
Shock resistance	Destructive	Min. 980 m/s ² {100 G} (5 times on 3 axes)		
Ambient temperature		-10 to +50°C +14 to 122°F		
Ambient humidity		Max. 85% RH (non-condensing)		
Weight		135 g 4.76 oz 130 g 4.59 oz		

Product types

Туре	Operating voltage	Part number		Operating voltage	Part number	
		50Hz	60Hz	Operating voltage	50Hz	60Hz
TH13 types (without reset button)	100V AC	TH1345	TH1346	115V AC (115 to 120V AC)	TH1375	TH1376
	200V AC	TH1355	TH1356	220V AC	TH1385	TH1386
	110V AC	TH1365	TH1366	240V AC	TH1395	TH1396
TH23 types (with reset button)	100V AC	TH2345	TH2346	115V AC (115 to 120V AC)	TH2375	TH2376
	200V AC	TH2355	TH2356	220V AC	TH2385	TH2386
	110V AC	TH2365	TH2366	240V AC	TH2395	TH2396

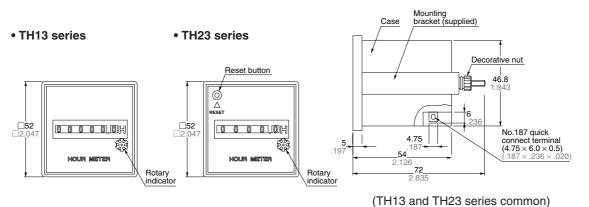
Note) The 115 to 120V AC, 220V AC and 240V AC types are UL-recognized and CSA-certified. For those products, specify "U" at the end of the part number when ordering.

Applicable standard

Safety standard	EN61010-1	Pollution Degree 2/Overvoltage Category II
EMC	(EMI)EN61000-6-4 Radiation interference electric field strength Noise terminal voltage (EMS)EN61000-6-2 Static discharge immunity RF electromagnetic field immunity EFT/B immunity Surge immunity Conductivity noise immunity Power frequency magnetic field immunity Voltage dip/Instantaneous stop/Voltage fluctuation immunity	EN55011 Group1 ClassA EN55011 Group1 ClassA EN61000-4-2 4 kV contact 8 kV air EN61000-4-3 10 V/m AM modulation (80 MHz to 1 GHz) 10 V/m pulse modulation (895 MHz to 905 MHz) EN61000-4-4 2 kV (power supply line) EN61000-4-5 1 kV (power line) EN61000-4-6 10 V/m AM modulation (0.15 MHz to 80 MHz) EN61000-4-8 30 A/m (50 Hz) EN61000-4-11 10 ms, 30% (rated voltage) 100 ms, 60% (rated voltage) 1,000 ms, 60% (rated voltage) 5,000 ms, 95% (rated voltage)

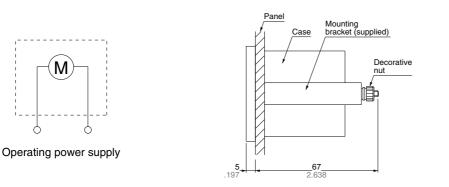
Dimensions

mm inch General tolerance: $\pm 1.0 \pm .039$

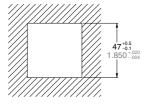


Wiring digram

Panel mounting



• Panel cutout dimensions



Replacing the TH13/23 series with the TH14/24 series

The TH13/TH23 series hour meter are interchangeable with the TH14/24 series hour meter. Use the specified mounting frame because of a different setup method. It is advisable to introduce the TH14/24 series hour meters for the first time.

DIN48 size and mounting frame setup

