Specification





multifunction relay, Harmony Timer Relays, 5A, 1CO+1CO timed, 0.02s...300h, time delay, 24...240V AC DC

RE48AMH13MW

## Main

Mani	
Range Of Product	Harmony Timer Relays
Product Or Component Type	Panel-mounted/plug-in timer relay
Electrical Connection	Plug-in sub-base 8
Width	1.89 in (48 mm)
Discrete Output Type	Relay
Contacts Type And Composition	1 C/O + 1 C/O timed or instantaneous contact, AgNi (cadmium free)
Component Name	RE48
Time Delay Type	Delay on energization Pulse-on energization
Time Delay Range	2120 h 5300 min 0.212 min 2120 s 0.212 h 0.021.2 s 0.530 h 0.212 s 5300 h 0.530 s 0.053 s 5300 s 2120 min 0.530 min
[Us] Rated Supply Voltage	24240 V AC/DC 50/60 Hz
Voltage Range	0.851.1 Us AC 0.91.1 Us DC
[In] Rated Current	5 A

# Complementary

Product Front Plate Size	48 x 48 mm
Control Type	Selector switch front panel
Housing Material	Self-extinguishing
Repeat Accuracy	+/- 0.2 % of the maximum setting value IEC 61812-1
Temperature Drift	+/- 0.02 %/°C of the maximum setting value IEC 61812-1
Voltage Drift	+/- 0.2 %/V of the maximum setting value 48240 V +/- 1 %/V of the maximum setting value 2448 V
Setting Accuracy Of Time Delay	+/- 5 % of full scale 25 °C IEC 61812-1
Minimum Pulse Duration	20 ms
Reset Time	25 ms on de-energisation

Pick Up Duration	55 ms
On-Load Factor	100 %
Power Consumption In Va	1.1 VA 24 V
	4.8 VA 240 V
Power Consumption In W	0.5 W 24 V
	1.7 W 240 V
Breaking Capacity	1250 VA
Minimum Switching Current	100 mA
Maximum Switching Current	5 A
Maximum Switching Voltage	250 V AC/DC
Electrical Durability	100000 cycles
Mechanical Durability	30000000 cycles
Output Voltage	240 V 5 A AC-12
	30 V 2 A DC-13
	240 V 1.5 A AC-15
Marking	CE
Surge Withstand	1 kV differential mode IEC 61000-4-5 level 3
	2 kV common mode IEC 61000-4-5 level 3
Mounting Support	Base mounted: socket
,	Panel mounted: system supplied with the product
Local Signalling	Output relay state 1 LED yellow)
	Flashing: relay energised timing in progress LED indicator green)
	On steady: relay energised, no timing in progress LED indicator green)
Function Available	A1- Delay on energization-2 C/O
. aa.a.i / irailabio	A2- Delay on energization-2 C/O
	H1-Pulse-on energization-2 C/O
	H2-Pulse-on energization-2 C/O
Control Type	Without test button
Net Weight	0.31 lb(US) (0.14 kg)
Shape Of Pin	Cylindrical
Number Of Functions	4

# **Environment**

Humidity Drift	+/- 0.05 %/%RH of the maximum setting value IEC 61812-1
Immunity To Microbreaks	10 ms
Dielectric Strength	1 kV 1 mA/1 minute IEC 61812-1
Protection Against Electric Shocks	4 kV class III IEC 60664-1 4 kV class III IEC 61812-1
Standards	EN 50082-1/2 EN 50081-1/2 93/68/EEC 73/23/EEC 89/336/EEC IEC 60669-2-3 IEC 61812-1
Product Certifications	cULus UL CSA C-Tick
Ambient Air Temperature For Storage	-40158 °F (-4070 °C)
Ambient Air Temperature For Operation	-4122 °F (-2050 °C)

Ip Degree Of Protection	IP40 IEC 60529 housing) IP50 IEC 60529 front face)
Vibration Resistance	0.35 mm 1055 Hz)IEC 60068-2-6
Relative Humidity	93 % without condensation IEC 60068-2-3
Resistance To Electrostatic Discharge	6 kV in contact IEC 61000-4-2 level 3 8 kV in air IEC 61000-4-2 level 3
Resistance To Electromagnetic Fields	9.14 V/yd (10 V/m) 26 MHz to 1 GHz IEC 61000-4-3 level 3
Resistance To Fast Transients	2 kV IEC 61000-4-4 level 4 capacitive connecting clip) 4 kV IEC 61000-4-4 level 4 direct)
Immunity To Radioelectric Fields	10 V 0.1580 MHz)IEC 61000-4-6 level 3
Immunity To Voltage Dips	30 % / 10 ms IEC 61000-4-11 60 % / 100 ms IEC 61000-4-11 95 % / 5 s IEC 61000-4-11
Disturbance Radiated/Conducted	Class B 0.1530 MHz EN 55022 (EN 55011 group 1)

# **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.24 in (5.700 cm)
Package 1 Width	4.13 in (10.500 cm)
Package 1 Length	2.44 in (6.200 cm)
Package 1 Weight	4.48 oz (127.000 g)
Unit Type Of Package 2	S02
Number Of Units In Package 2	30
Package 2 Height	5.91 in (15.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	9.46 lb(US) (4.293 kg)

# **Contractual warranty**

Warranty 18 months

# Sustainability Green Premium

**Green Premium**<sup>TM</sup> **label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

## Well-being performance



Mercury Free



Rohs Exemption Information

Yes

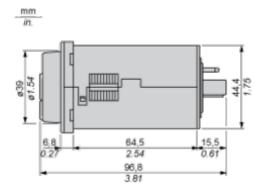
## **Certifications & Standards**

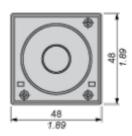
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information

## RE48AMH13MW

## **Dimensions Drawings**

## Width 48 mm



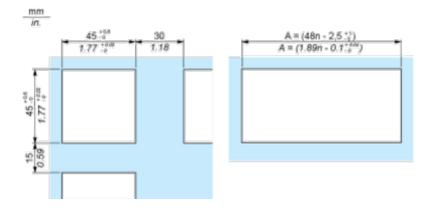


## RE48AMH13MW

Mounting and Clearance

## Panel Cut-Out and Mounting

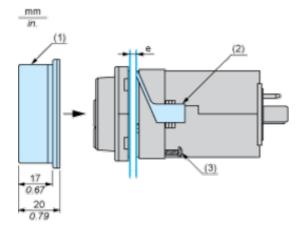
#### **Panel Cut-Out**



n Number of devices mounted side-by-side

#### Mounting

Cover positioning and mounting

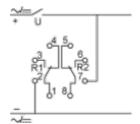


- e Panel thickness
- 1 Protective cover
- 2 Panel mounting frame
- 3 Locating screw

## RE48AMH13MW

Connections and Schema

## Wiring Diagram



## RE48AMH13MW

**Technical Description** 

## Functions A1, A2: Delay on Energisation

## Description

The timing period T begins on energisation. After timing, the output(s) R close(s). The second output can be either timed or instantaneous.



## RE48AMH13MW

## Functions H1, H2: Pulse-on Energisation

#### Description

On energisation of the relay, timing period T starts and the output(s) R close(s). At the end of the timing period T, the output(s) R revert(s) to its/their initial state. The second output can be either timed or instantaneous.



If H1 is selected, only R2 is timed, R1 is instantaneous.

# Product data sheet RE48AMH13MW

## Legend

Relay de-energised Relay energised Output open	
С	Output closed  Control contact
G	Gate
R	Relay or solid state output
R1/R2	2 timed outputs
R2 inst.	The second output is instantaneous if the right position is selected
Т	Timing period
Та -	Adjustable On-delay
Tr -	Adjustable Off-delay
U	Supply