

Common features

- Space saving 6.2 mm wide
- Connections for 16-way jumper link
- Integral coil indication and protection circuit
- Secure retention and easy ejection by plastic clip
- Dual screw head (blade+cross) terminals and Push-in terminals versions
- 35 mm rail mounting (EN 60715)

MasterBASIC

- For general use in any type of system
- **EMR: 6 to 24 and 125 V AC/DC, 230 V AC supply**
- **SSR: 6 to 24 V DC, 125 V AC/DC, 230 V AC supply**
- Screw terminal and Push-in terminal

MasterPLUS

- Accepts the output fuse module, for the easy and space efficient protection of output circuits
- **EMR: 6 to 125 V AC/DC, 125 and 220 V DC, 230 V AC and 24...240 V AC/DC supply**
- **SSR: 24 - 125 V AC/DC, 6 to 220 V DC, 230 V AC and 24...240 V AC/DC supply**
- **Special 125 V AC/DC and 230 V AC leakage current suppression types (39.31.3, 39.61.3 EMR and 39.30.3, 39.60.3 SSR)**
- Screw terminal and Push-in terminal

MasterINPUT

- Jumper link option for the quick and easy distribution of supply voltage to proximity switches and similar input devices
- **EMR: 6 to 24 V and 125 V AC/DC, 230 V AC supply**
- **SSR: 6 - 24 V DC, 24 - 125 V AC/DC, 230 V AC supply**
- Screw terminal and Push-in terminal

MasterOUTPUT

- Jumper link option for the quick and easy distribution of supply voltage to output side and its connection to electromagnetic valves and similar output devices
- **EMR: 6 to 24 V and 125 V AC/DC, 230 V AC supply**
- **SSR: 6 to 24 V DC, 125 V AC/DC, 230 V AC supply**
- Screw terminal and Push-in terminal

MasterTIMER

- Timer adjustment via top mounted rotary knob accessible after assembly
- Control signal terminal
- DIP-switch for selection of 4 time scales and 8 functions
- Output with fuse module option
- **EMR and SSR: 12 to 24 V AC/DC supply**
- Screw terminal and Push-in terminal

EMR Electromechanical Relays

- **1 CO 6 A/250 V AC**
- High switching capability

39.11/39.01



Page 4

SSR Solid State Relays

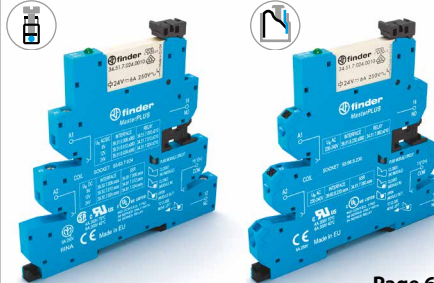
- 1 solid state output (options **0.1 A/48 V DC, 2 A/24 V DC, 2 A/240 V AC**)
- Silent, high speed switching, long electrical life

39.10/39.00



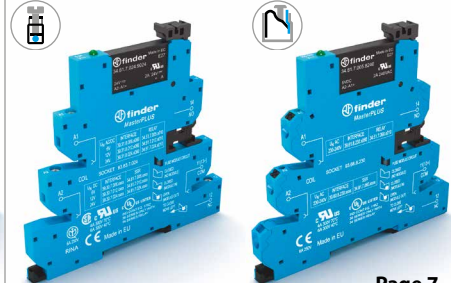
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39.31 - 39.31.3/39.61 - 39.61.3



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39.30 - 39.30.3/39.60 - 39.60.3



Page 7

39.41/39.71



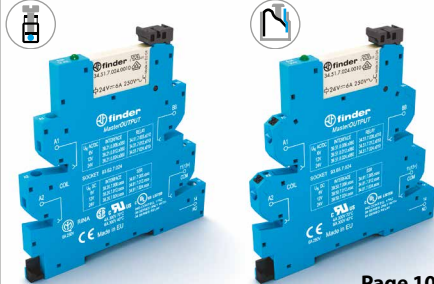
Page 8

39.40/39.70



Page 9

39.21/39.51



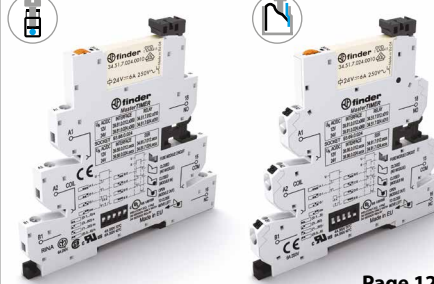
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39.20/39.50



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39.81/ 39.91



Page 12

39.80/39.90



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Typical Applications

Master**BASIC**

39.11 - 39.10 - 39.01 - 39.00

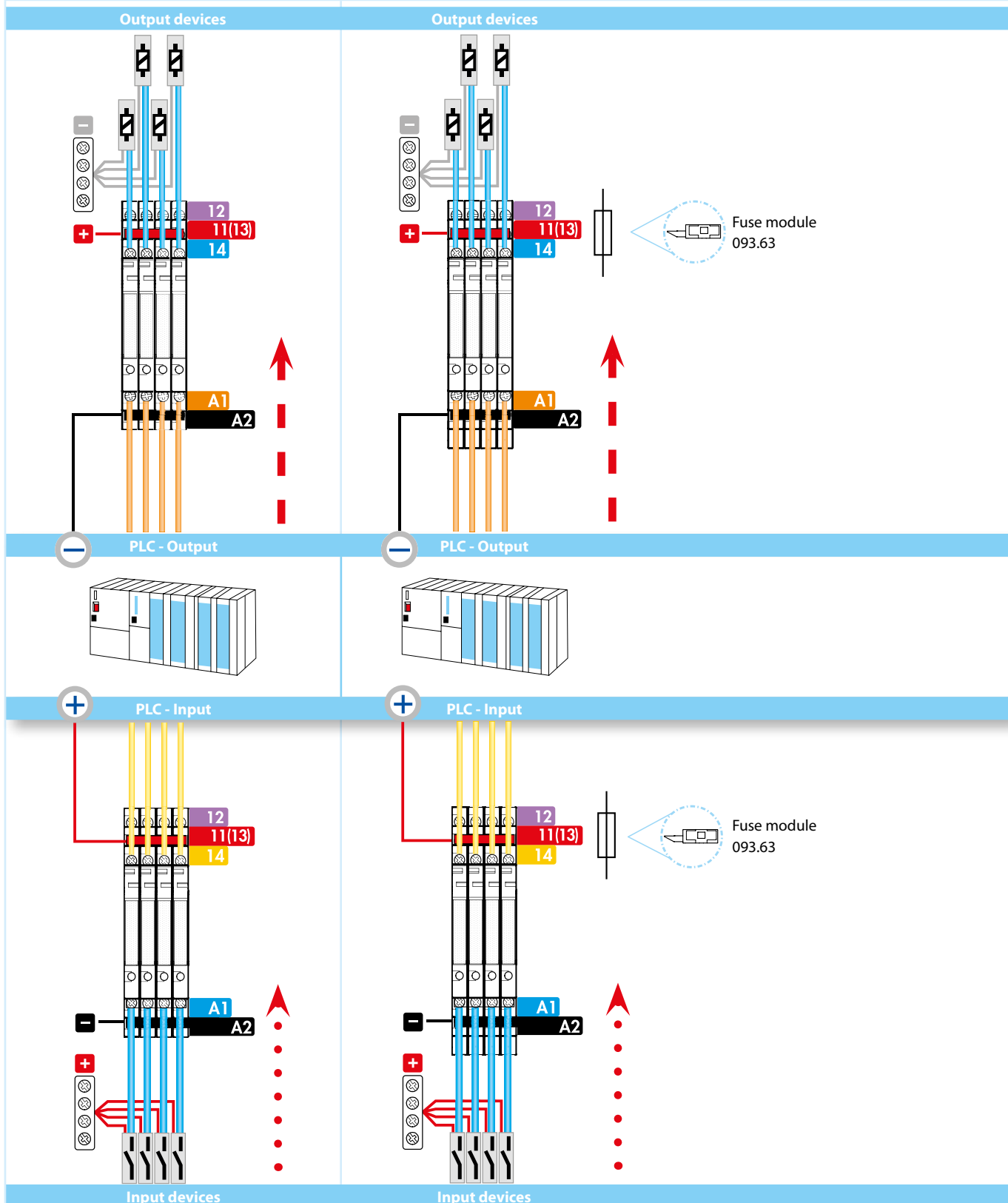
- For general interface use in any type of system and application.
- Can be used for input interface applications between auxiliary contacts, sensors etc. and controllers, PLC's or motors. Or for output interface between PLC's controllers and relays, solenoids etc.

Master**PLUS**

39.31 - 39.30 - 39.31.3 - 39.30.3 - 39.61 - 39.60 - 39.61.3 - 39.60.3

- This special version provides extra protection for the output circuit thanks to the replaceable fuse module.
- For general interface use in any type of system and application.
- Can be used for input interface applications between auxiliary contacts, sensors etc. and controllers, PLC's or motors. Or for output interface between PLC's controllers and relays, solenoids etc.

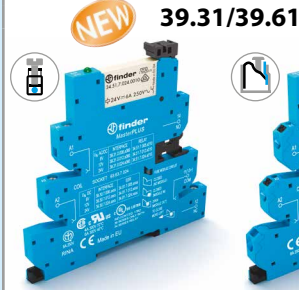
B



MasterPLUS - EMR

1 Pole interface modules, 6.2 mm wide, ideal for PLC and electronic systems

- Accepts output fuse module **093.63** (for 5 x 20 mm fuses) for quick and easy load protection, see page 24
- Common connection possible with optional jumper links (terminals A1, A2 and 11)
- UL Listing (certain relay/socket combinations)



- 6 A electromechanical relay
- 6 to 125 V AC/DC, 125 and 220 V DC, 230 V AC, 24...240 V AC/DC supply
- Screw terminal and push-in terminal
- 35 mm rail (EN 60715) mounting

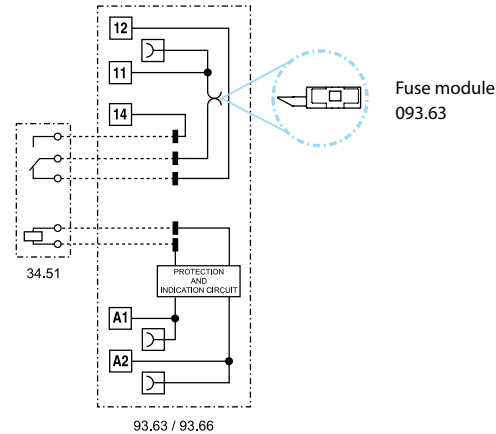


- 6 A electromechanical relay
- Leakage current suppression version, 125 V AC/DC and 230 V AC supply
- Screw terminal and push-in terminal

39.31/39.31.3
Screw terminal



39.61/39.61.3
Push-in terminal



Fuse module
093.63

For outline drawing see page 20, 21

Contact specification

Contact configuration	1 CO (SPDT)	1 CO (SPDT)
Rated current/ Maximum peak current	A 6/10	6/10
Rated voltage/ Maximum switching voltage	V AC 250/400	250/400
Rated load AC1	VA 1500	1500
Rated load AC15 (230 V AC)	VA 300	300
Single phase motor rating (230 V AC)	kW 0.185	0.185
Breaking capacity DC1: 30/110/220 V	A 6/0.2/0.12	6/0.2/0.12
Minimum switching load	mW (V/mA) 500 (12/10)	500 (12/10)
Standard contact material	AgNi	AgNi

Supply specification

Nominal voltage (U_N)	V AC/DC	6 - 12 - 24 - 60 - 110...125 - 24...240	110...125
	V AC (50/60 Hz)	220...240	220...240
	V DC	110...125 - 220	—
Rated power	VA (50 Hz)/W	See page 16	See page 16
Operating range		$(0.8...1.1)U_N$	$(0.8...1.1)U_N$
Holding voltage		$0.6 U_N$	$0.6 U_N$
Must drop-out voltage		$0.1 U_N$	$0.3 U_N$

Technical data

Mechanical life AC/DC	cycles	$10 \cdot 10^6$	$10 \cdot 10^6$
Electrical life at rated load AC1	cycles	$60 \cdot 10^3$	$60 \cdot 10^3$
Operate/release time	ms	5/6	5/6
Insulation between coil and contacts (1.2/50 μ s)	kV	6 (8 mm)	6 (8 mm)
Dielectric strength between open contacts	V AC	1000	1000
Ambient temperature range	°C	-40...+70 (+55 for 220 V DC)	-40...+70
Protection category		IP 20	IP 20

Approvals relay (according to type)



39 Series - Relay interface modules - Ordering information

Ordering information

Example: **MasterPLUS** 39 series screw terminal interface module, electromechanical relay output, 1 CO (SPDT), 24 V AC/DC coil.

B

Series

Type

- 1 = **MasterBASIC**, screw terminal
 0 = **MasterBASIC**, push-in terminal
 3 = **MasterPLUS**, screw terminal, fuse-protectable output
 6 = **MasterPLUS**, push-in terminal, fuse-protectable output
 4 = **MasterINPUT**, screw terminal
 7 = **MasterINPUT**, push-in terminal
 2 = **MasterOUTPUT**, screw terminal
 5 = **MasterOUTPUT**, push-in terminal
 8 = **MasterTIMER** multifunction, screw terminal, fuse-protectable output
 9 = **MasterTIMER** multifunction, push-in terminal, fuse-protectable output

No. of poles

- 1 = 1 CO (only EMR, except 39.21/51, 1 NO)
 0 = 1 NO (only SSR)

Coil version, EMR / Input version, SSR

- 0 = AC (50/60 Hz)/DC
 3 = Leakage current suppression AC (50/60 Hz)
 7 = DC sensitive
 8 = AC (50/60 Hz)

Coil voltage, EMR/Input voltage, SSR

See page 16

A

B

C

D

3 9 . 3 1 . 0 . 0 2 4 . 0 0 6 0

D: Special Version, EMR

0 = Standard

C: Options, EMR

6 = Standard

B: Contact circuit, EMR

0 = CO (except 39.21/51, 1 NO)

A: Contact material, EMR

0 = AgNi Standard

4 = AgSnO₂

5 = AgNi + Au

ABCD: Output version, SSR

7048 = 0.1 A - 48 V DC

8240 = 2 A - 230 V AC

9024 = 2 A - 24 V DC

EMR - Selecting features and options: only combinations in the same row are possible.

Preferred selections for best availability are shown in **bold**.

Type	Coil version	A	B	C	D
39.11/01	0.006 - 0.012	0 - 4 - 5	0	6	0
	0.024 - 0.125 - 8.230				
39.31/61	0.006 - 0.012	0 - 4 - 5	0	6	0
	0.024 - 0.060				
	0.125 - 0.240 - 8.230				
	7.125 - 7.220				
39.41/71	3.125 - 3.230	0 - 4 - 5	0	6	0
	0.006 - 0.012				
	0.024 - 0.125				
39.21/51	8.230	0 - 4 - 5	0	6	0
	0.006 - 0.012				
	0.024 - 0.125				
39.81/91	0.012 - 0.024	0	0	6	0

SSR - Selecting features and options: only combinations in the same row are possible.

Preferred selections for best availability are shown in **bold**.

Type	Input version	Output version, ABCD
39.10/00	7.006 - 7.012	7048 - 8240 - 9024
	7.024 - 0.125 - 8.230	
39.30/60	7.006 - 7.012	7048 - 8240 - 9024
	7.024 - 7.060	
	7.125 - 7.220	
	0.024 - 0.125 - 0.240	
	8.230	
39.40/70	3.125 - 3.230	7048 - 8240 - 9024
	7.006 - 7.012	
	7.024 - 0.024 - 0.125	
39.20/50	8.230	7048 - 8240 - 9024
	7.006 - 7.012	
	7.024 - 0.125	
39.80/90	0.012 - 0.024	7048 - 8240 - 9024

Technical data

Insulation according to EN 61810-1

Nominal voltage of supply system	V AC	230/400	
Rated insulation voltage	V AC	250	400
Pollution degree		3	2

Insulation between coil and contact set

Type of Insulation		Reinforced	
Overvoltage category		III	
Rated impulse voltage	kV (1.2/50)μs	6	
Dielectric strength	V AC	4000	

Insulation between open contacts (EMR)

Type of disconnection		Micro-disconnection	
Dielectric strength	V AC/kV (1.2/50)μs	1000/1.5	

Conducted disturbance immunity

		$U_N \leq 60 \text{ V}$	$U_N = 125 \text{ V}$	$U_N = 230 \text{ V}$
Fast transients (burst 5/50 ns, 5 kHz) according to EN 61000-4-4 at supply terminals	kV	4	4	4
Voltage pulses (surge 1.2/50 μs) according to EN 61000-4-5 at supply terminals (differential mode)	kV	0.8	2	4

Other data

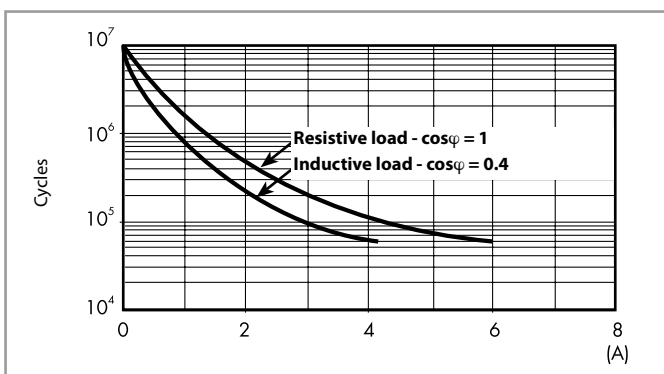
Bounce time (EMR): NO/NC	ms	1/6	
Vibration resistance (EMR, 10...55 Hz): NO/NC	g	10/15	
Power lost to the environment	without contact current	W	0.2 (24 V) - 0.4 (230 V)
	with rated current	W	0.6 (24 V) - 0.9 (230 V)

Terminals

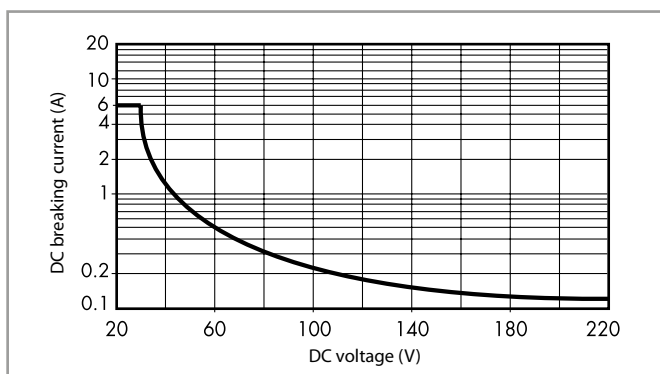
		Screw terminal	Push-in terminal
Wire strip length	mm	10	8
 Screw torque	Nm	0.5	—
		Solid and stranded cable	Solid and stranded cable
Max. wire size	mm ²	1 x 2.5 / 2 x 1.5	1 x 2.5
	AWG	1 x 14 / 2 x 16	1 x 14
Min. wire size	mm ²	1 x 0.2	1 x 0.2
	AWG	1 x 24	1 x 24

Contact specification (EMR)

F 39 - Electrical life (AC) v contact current



H 39 - Maximum DC1 breaking capacity



- When switching a resistive load (DC1) having voltage and current values under the curve, an electrical life of $\geq 60 \cdot 10^3$ can be expected.
- In the case of DC13 loads, the connection of a diode in parallel with the load will permit a similar electrical life as for a DC1 load.
Note: the release time for the load will be increased.

Coil specifications - Electromechanical Relay

Coil data DC, type 39.31/61

Nominal voltage U_N	Coil code	Operating range		Must drop-out voltage U_r	Rated input current at U_N I_N	Rated power at U_N
V		U_{min}	U_{max}	V	mA	W
125 (110...125)	7.125	88	138	12.5	4.6	0.6
220	7.220	176	242	22	3.0	0.6

Coil data AC/DC, type 39.11/21/31/41/01/51/61/71

Nominal voltage U_N	Coil code	Operating range		Must drop-out voltage U_r	Rated input current at U_N I_N	Rated power at U_N
V		U_{min}	U_{max}	V	mA	VA/W
6	0.006	4.8	6.6	0.6	35	0.2/0.2
12	0.012	9.6	13.2	1.5	15	0.2/0.2
24	0.024	19.2	26.4	2.4	11	0.25/0.25
60 ⁽¹⁾	0.060	48	66	6.0	5.7	0.35/0.35
125 (110...125)	0.125	88	138	12.5	5.6	0.7/0.7
240 (24...240) ⁽²⁾	0.240	20.4	264	2.4	19	1.5/0.3

⁽¹⁾ 60 V AC/DC for type 39.31/61 only⁽²⁾ 24...240 V AC/DC for type 39.31/61 only

Coil data AC, type 39.11/21/31/41/01/51/61/71

Nominal voltage U_N	Coil code	Operating range		Must drop-out voltage U_r	Rated input current at U_N I_N	Rated power at U_N
V		U_{min}	U_{max}	V	mA	VA/W
230 (230...240)	8.230	184	264	23	4.3	1/0.4

Coil data leakage current suppression versions, type 39.31.3/61.3

Nominal voltage U_N	Coil code	Operating range		Must drop-out voltage U_r	Rated input current at U_N I_N	Rated power at U_N
V		U_{min}	U_{max}	V	mA	VA/W
125 (110...125)	3.125	88	138	44	8.4	1.1/1
230 (230...240)	3.230	184	264	72	5.9	1.4/0.5

The 39 Series interface modules (supply version 3) have built-in leakage current suppression to address industry concerns of the contacts not dropping-out when there is residual current in the circuit; at (110...125)V AC/DC and (230...240)V AC.

This problem can occur, for example, when connecting the interface modules to PLC's with triac outputs or when connecting via relatively long cables.

Coil data AC/DC timer, type 39.81/91

Nominal voltage U_N	Coil code	Operating range (AC/DC)		Must drop-out voltage U_r	Rated input current at U_N		Rated power at U_N	
V		U_{min}	U_{max}	V	DC mA	AC mA	DC W	AC VA/W
12	0.012	9.6	13.2	1.2	15	23	0.2	0.3/0.2
24	0.024	19.2	26.4	2.4	11	19	0.25	0.4/0.3

Input specifications - Solid State Relay

Input data DC, type 39.10/20/30/40/00/50/60/70

Nominal voltage U_N	Input code	Operating range		Must drop-out voltage U_r	Rated input current at U_N I_N	Rated power at U_N
V		U_{min}	U_{max}	V	mA	W
6	7.006	4.8	6.6	0.6	7.5	0.2
12	7.012	9.6	13.2	1.2	20.7	0.25
24	7.024	19.2	26.4	2.4	10.5	0.25
60 ⁽¹⁾	7.060	38	66	6.0	6.4	0.4
125 ⁽¹⁾ (110...125)	7.125	88	138	12.5	4.6	0.6
220 ⁽¹⁾	7.220	176	242	22	3.0	0.6

⁽¹⁾ 60 V DC, 125 V DC and 220 V DC for type 39.30/60 only

Input data AC/DC, type 39.10/20/30/40/00/50/60/70

Nominal voltage U_N	Input code	Operating range		Must drop-out voltage U_r	Rated input current at U_N I_N	Rated power at U_N
V		U_{min}	U_{max}	V	mA	VA/W
24 ⁽²⁾	0.024	19.2	26.4	2.4	17.5	0.4/0.3
125 (110...125)	0.125	88	138	12.5	5.5	0.7/0.7
240 (24...240) ⁽³⁾	0.240	20.4	264	2.4	17.5	1.5/0.3

⁽²⁾ 24 V AC/DC for type 39.30/40/60/70 only

⁽³⁾ 24...240 V AC/DC for type 39.30/60 only

Input data AC, type 39.10/20/30/40/00/50/60/70

Nominal voltage U_N	Input code	Operating range		Must drop-out voltage U_r	Rated input current at U_N I_N	Rated power at U_N
V		U_{min}	U_{max}	V	mA	VA/W
230 (230...240)	8.230	184	264	23	4.2	1/0.4

Input data leakage current suppression versions, type 39.30.3/60.3

Nominal voltage U_N	Input code	Operating range		Must drop-out voltage U_r	Rated input current at U_N I_N	Rated power at U_N
V		U_{min}	U_{max}	V	mA	VA/W
125 (110...125)	3.125	88	138	44	8.4	1.1/1
230 (230...240)	3.230	184	264	72	5.9	1.4/0.5

The 39 Series interface modules (supply version 3) have built-in leakage current suppression to address industry concerns of the contacts not dropping-out when there is residual current in the circuit; at (110...125)V AC/DC and (230...240)V AC.

This problem can occur, for example, when connecting the interface modules to PLC's with triac outputs or when connecting via relatively long cables.

Input data AC/DC timer, type 39.80/90

Nominal voltage U_N	Input code	Operating range (AC/DC)		Must drop-out voltage U_r	Rated input current at U_N		Rated power at U_N	
		U_{min}	U_{max}		DC	AC	DC	AC
V		V	V	V	mA	mA	W	VA/W
12	0.012	9.6	13.2	1.2	15	23	0.2	0.3/0.2
24	0.024	19.2	26.4	2.4	11	19	0.25	0.4/0.3

39 Series - Timed interface modules

Timer specifications

EMC specifications

Type of test		Reference standard	
Electrostatic discharge	contact discharge	EN 61000-4-2	4 kV
	air discharge	EN 61000-4-2	8 kV
Radio-frequency electromagnetic field	(80 ÷ 1000 MHz)	EN 61000-4-3	10 V/m
	(1400 ÷ 2700 MHz)	EN 61000-4-3	10 V/m
Fast transients (burst) (5-50 ns, 5 and 100 kHz)	on Supply terminals	EN 61000-4-4	4 kV
	on control signal terminals	EN 61000-4-4	4 kV
Surges (1.2/50 µs) on supply and control signal terminals	common mode	EN 61000-4-5	2 kV
	differential mode	EN 61000-4-5	0.8 kV
Radio-frequency common mode (0.15 ÷ 80 MHz)	on Supply terminals	EN 61000-4-6	10 V
	on control signal terminals	EN 61000-4-6	3 V
Radiated and conducted emission		EN 55022	class B

Other data

Bounce time (EMR): NO/NC	ms	1/6
Vibration resistance (EMR, 10..55 Hz): NO/NC	g	10/15
Power lost to the environment	without contact current	W 0.3
	with rated current	W 0.8

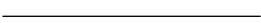
Terminals

		Screw terminal	Push-in terminal
Wire strip length	mm	10	8
 Screw torque	Nm	0.5	—
		Solid and stranded cable	Solid and stranded cable
Max. wire size	mm ²	1 x 2.5 / 2 x 1.5	1 x 2.5
	AWG	1 x 14 / 2 x 16	1 x 14
Min. wire size	mm ²	1 x 0.2	1 x 0.2
	AWG	1 x 24	1 x 24

Times scales

			
1 2 3 4 5 (0.1...3)s	1 2 3 4 5 (3...60)s	1 2 3 4 5 (1...20)min	1 2 3 4 5 (0.3...6)h

Functions

LED	Supply voltage	NO contact/output
	OFF	Open
	ON	Open
	ON	Open (timing to close in progress)
	ON	Closed

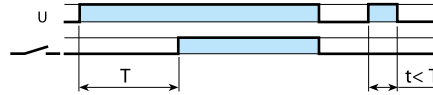
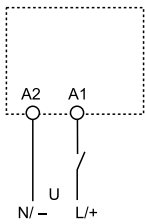
Wiring diagram

U = Supply voltage

S = Signal switch

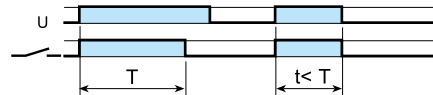
 = Output contact

Without control signal



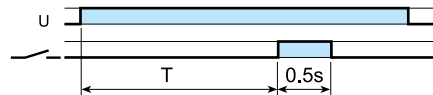
(AI) On-delay

Apply power to timer. Output contacts transfer after preset time has elapsed. Reset occurs when power is removed.



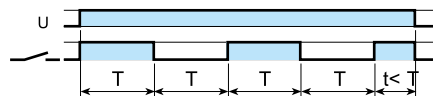
(DI) Interval

Apply power to timer. Output contacts transfer immediately. After the preset time has elapsed, contacts reset.



(GI) Pulse (0.5 s) delayed

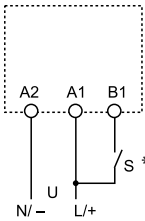
Apply power to timer. Output contacts transfer after preset time has elapsed. Reset occurs after a fixed time of 0.5 s.



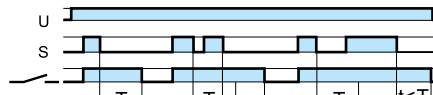
(SW) Symmetrical flasher (starting pulse on)

Apply power to timer. Output contacts transfer immediately and cycle between ON and OFF for as long as power is applied. The ratio is 1:1 (time on = time off).

With control signal

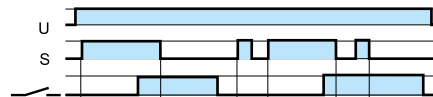
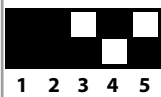


* With DC supply, positive polarity has to be connected to B1, terminal (according to EN 60204-1).



(BE) Off-delay with control signal

Power is permanently applied to the timer. The output contacts transfer immediately on closure of the Signal Switch (S). Opening the Signal Switch initiates the preset delay, after which time the output contacts reset.



(CE) On- and off-delay with control signal

Power is permanently applied to the timer. Closing the Signal Switch (S) initiates the preset delay, after which time the output contacts transfer. Opening the Signal switch initiates the same preset delay, after which time the output contacts reset.



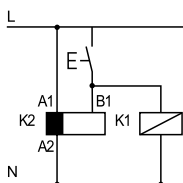
(DE) Interval with control signal on

Power is permanently applied to the timer. On momentary or maintained closure of Signal Switch (S), the output contacts transfer, and remain so for the duration of the preset delay, after which they reset.



(EE) Interval with control signal off

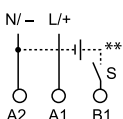
Power is permanently applied to the timer. On opening of the Signal Switch (S) the output contacts transfer, and remain so for the duration of the preset delay, after which they reset.



• Possible to control an external load, such as another relay coil or timer, connected to the control signal terminal B1.

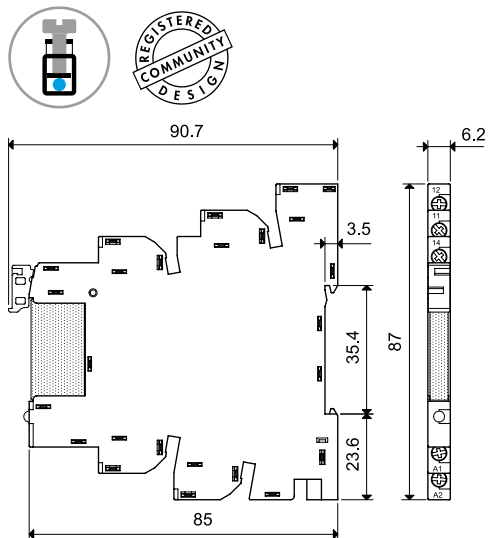
** A voltage other than the supply voltage can be applied to the command Start (B1), example:

A1 - A2 = 24 V AC
B1 - A2 = 12 V DC

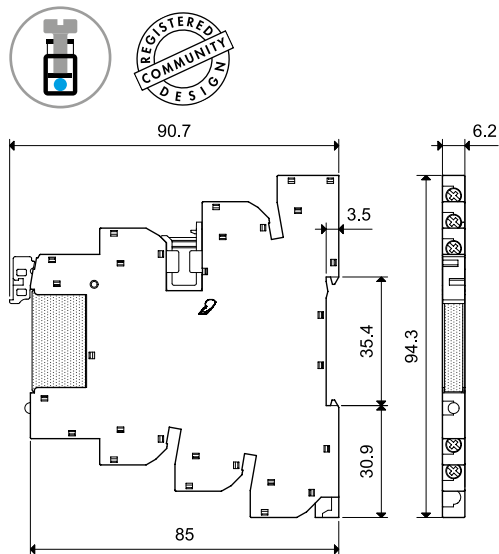


Outline drawings - Screw terminal sockets

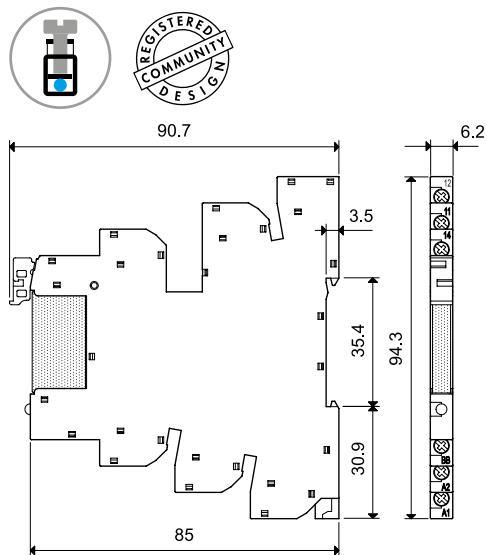
39.10/39.20
39.11/39.21
Screw terminal



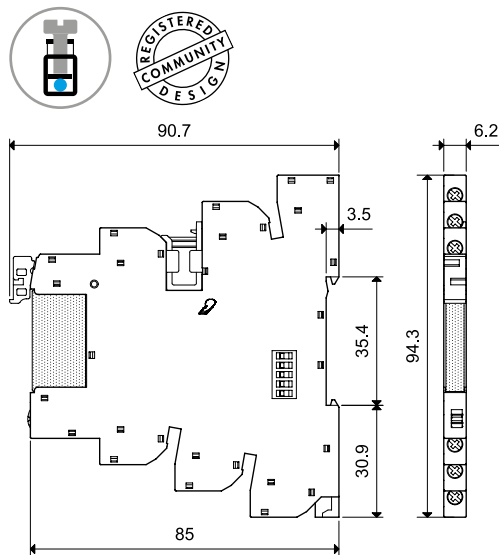
39.30/39.30.3
39.31/39.31.3
Screw terminal



39.40
39.41
Screw terminal

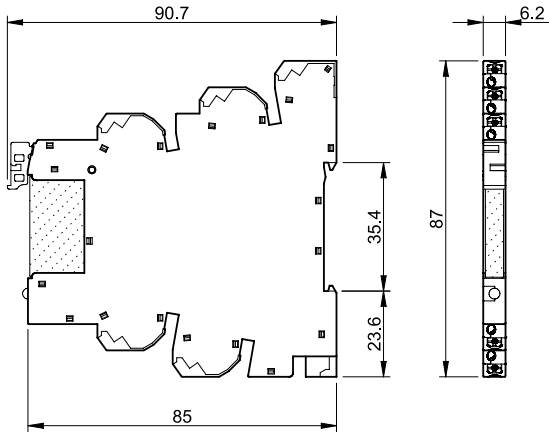


39.80
39.81
Screw terminal

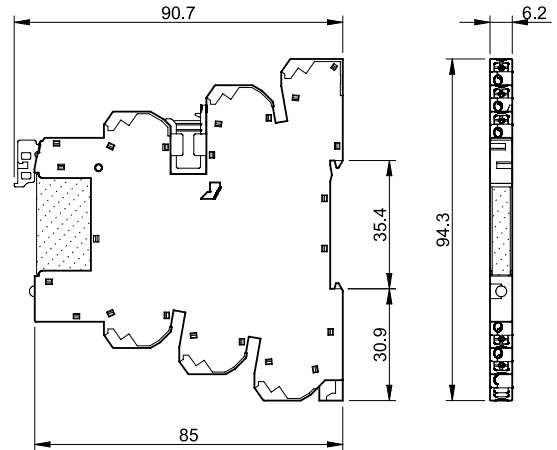


Outline drawings - Push-in terminal sockets

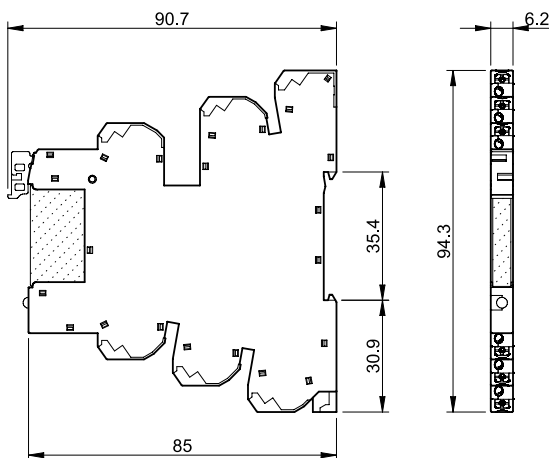
39.00/39.01
39.50/39.51
Push-in terminal



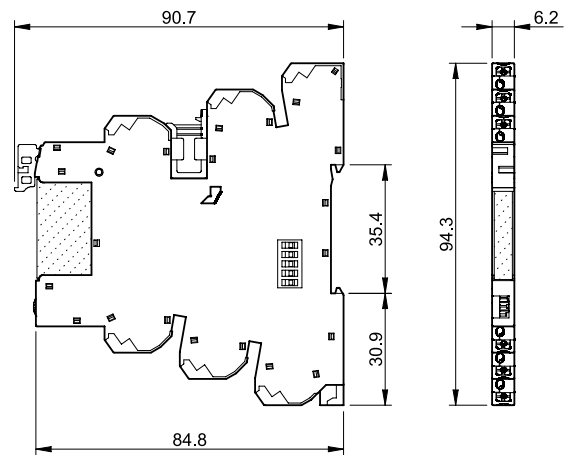
39.60/39.60.3
39.61/39.61.3
Push-in terminal



39.70
39.71
Push-in terminal



39.90
39.91
Push-in terminal



Main features

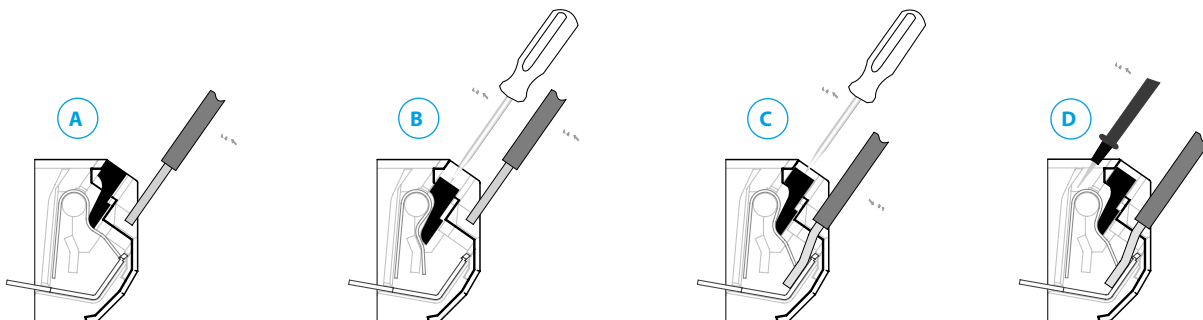
Push-in terminals

The push-in terminals permit the quick connection of solid wires or ferrules by their simple insertion into the terminal (A).

It is possible to open the terminal to extract the wire by first pushing down on the push-button using a screwdriver (C).

For stranded cable it is necessary first to open the terminal using the push button, both for the extraction (C) and insertion (B).

It is possible at any time to check the connection via the test aperture, using a 2 mm diameter test probe (D).



39 Series - Relay interface modules 0.1 - 2 - 6 A

Electromechanical Relay (1 Pole 6 A) & Screw Socket Combinations

Interface Module Code	Coil voltage	Relay	Socket
MasterBASIC			
39.11.0.006.0060	6 V AC/DC	34.51.7.005.0010	93.61.7.024
39.11.0.012.0060	12 V AC/DC	34.51.7.012.0010	93.61.7.024
39.11.0.024.0060	24 V AC/DC	34.51.7.024.0010	93.61.7.024
39.11.0.125.0060	(110...125)V AC/DC	34.51.7.060.0010	93.61.0.125
39.11.8.230.0060	(230...240)V AC	34.51.7.060.0010	93.61.8.230
MasterPLUS			
39.31.0.006.0060	6 V AC/DC	34.51.7.005.0010	93.63.7.024
39.31.0.012.0060	12 V AC/DC	34.51.7.012.0010	93.63.7.024
39.31.0.024.0060	24 V AC/DC	34.51.7.024.0010	93.63.7.024
39.31.0.060.0060	60 V AC/DC	34.51.7.060.0010	93.63.7.060
39.31.0.125.0060	(110...125)V AC/DC	34.51.7.060.0010	93.63.0.125
39.31.0.240.0060	(24...240)V AC/DC	34.51.7.024.0010	93.63.0.240
39.31.8.230.0060	(230...240)V AC	34.51.7.060.0010	93.63.8.230
39.31.7.125.0060	(110...125)V DC	34.51.7.060.0010	93.63.7.125
39.31.7.220.0060	220 V DC	34.51.7.060.0010	93.63.7.220
39.31.3.125.0060	(110...125)V AC/DC	34.51.7.060.0010	93.63.3.125
39.31.3.230.0060	(230...240)V AC	34.51.7.060.0010	93.63.3.230
MasterINPUT			
39.41.0.006.5060	6 V AC/DC	34.51.7.005.5010	93.64.7.024
39.41.0.012.5060	12 V AC/DC	34.51.7.012.5010	93.64.7.024
39.41.0.024.5060	24 V AC/DC	34.51.7.024.5010	93.64.7.024
39.41.0.125.5060	(110...125)V AC/DC	34.51.7.060.5010	93.64.0.125
39.41.8.230.5060	(230...240)V AC	34.51.7.060.5010	93.64.8.230
MasterOUTPUT 1 NO, 6 A only			
39.21.0.006.0060	6 V AC/DC	34.51.7.005.0010	93.62.7.024
39.21.0.012.0060	12 V AC/DC	34.51.7.012.0010	93.62.7.024
39.21.0.024.0060	24 V AC/DC	34.51.7.024.0010	93.62.7.024
39.21.0.125.0060	(110...125)V AC/DC	34.51.7.060.0010	93.62.0.125
39.21.8.230.0060	(230...240)V AC	34.51.7.060.0010	93.62.8.230
MasterTIMER			
39.81.0.012.0060	12 V AC/DC	34.51.7.012.0010	93.68.0.024
39.81.0.024.0060	24 V AC/DC	34.51.7.024.0010	93.68.0.024

Solid State Relay (1 Pole 0.1 or 2 A) & Screw Socket Combinations

Interface Module Code	Input voltage	Relay	Socket
MasterBASIC			
39.10.7.006.xxxx	6 V DC	34.81.7.005.xxxx	93.61.7.024
39.10.7.012.xxxx	12 V DC	34.81.7.012.xxxx	93.61.7.024
39.10.7.024.xxxx	24 V DC	34.81.7.024.xxxx	93.61.7.024
39.10.0.125.xxxx	(110...125)V AC/DC	34.81.7.060.xxxx	93.61.0.125
39.10.8.230.xxxx	(230...240)V AC	34.81.7.060.xxxx	93.61.8.230
MasterPLUS			
39.30.7.006.xxxx	6 V DC	34.81.7.005.xxxx	93.63.7.024
39.30.7.012.xxxx	12 V DC	34.81.7.012.xxxx	93.63.7.024
39.30.7.024.xxxx	24 V DC	34.81.7.024.xxxx	93.63.7.024
39.30.7.060.xxxx	60 V DC	34.81.7.060.xxxx	93.63.7.060
39.30.7.125.xxxx	(110...125)V DC	34.81.7.060.xxxx	93.63.7.125
39.30.7.220.xxxx	220 V DC	34.81.7.060.xxxx	93.63.7.220
39.30.0.024.xxxx	24 V AC/DC	34.81.7.024.xxxx	93.63.0.024
39.30.0.125.xxxx	(110...125)V AC/DC	34.81.7.060.xxxx	93.63.0.125
39.30.0.240.xxxx	(24...240)V AC/DC	34.81.7.024.xxxx	93.63.0.240
39.30.8.230.xxxx	(230...240)V AC	34.81.7.060.xxxx	93.63.8.230
39.30.3.125.xxxx	(110...125)V AC/DC	34.81.7.060.xxxx	93.63.3.125
39.30.3.230.xxxx	(230...240)V AC	34.81.7.060.xxxx	93.63.3.230
MasterINPUT			
39.40.7.006.xxxx	6 V DC	34.81.7.005.xxxx	93.64.7.024
39.40.7.012.xxxx	12 V DC	34.81.7.012.xxxx	93.64.7.024
39.40.7.024.xxxx	24 V DC	34.81.7.024.xxxx	93.64.7.024
39.40.0.024.xxxx	24 V AC/DC	34.81.7.024.xxxx	93.64.0.024
39.40.0.125.xxxx	(110...125)V AC/DC	34.81.7.060.xxxx	93.64.0.125
39.40.8.230.xxxx	(230...240)V AC	34.81.7.060.xxxx	93.64.8.230
MasterOUTPUT			
39.20.7.006.xxxx	6 V DC	34.81.7.005.xxxx	93.62.7.024
39.20.7.012.xxxx	12 V DC	34.81.7.012.xxxx	93.62.7.024
39.20.7.024.xxxx	24 V DC	34.81.7.024.xxxx	93.62.7.024
39.20.0.125.xxxx	(110...125)V AC/DC	34.81.7.060.xxxx	93.62.0.125
39.20.8.230.xxxx	(230...240)V AC	34.81.7.060.xxxx	93.62.8.230
MasterTIMER			
39.80.0.012.xxxx	12 V AC/DC	34.81.7.012.xxxx	93.68.0.024
39.80.0.024.xxxx	24 V AC/DC	34.81.7.024.xxxx	93.68.0.024

Example: .xxxx
.9024
.7048
.8240

39 Series - Relay interface modules 0.1 - 2 - 6 A

Electromechanical Relay (1 Pole 6 A) & Push-in Socket Combinations

Interface Module Code	Coil voltage	Relay	Socket
MasterBASIC			
39.01.0.006.0060	6 V AC/DC	34.51.7.005.0010	93.60.7.024
39.01.0.012.0060	12 V AC/DC	34.51.7.012.0010	93.60.7.024
39.01.0.024.0060	24 V AC/DC	34.51.7.024.0010	93.60.7.024
39.01.0.125.0060	(110...125)V AC/DC	34.51.7.060.0010	93.60.0.125
39.01.8.230.0060	(230...240)V AC	34.51.7.060.0010	93.60.8.230
MasterPLUS			
39.61.0.006.0060	6 V AC/DC	34.51.7.005.0010	93.66.7.024
39.61.0.012.0060	12 V AC/DC	34.51.7.012.0010	93.66.7.024
39.61.0.024.0060	24 V AC/DC	34.51.7.024.0010	93.66.7.024
39.61.0.060.0060	60 V AC/DC	34.51.7.060.0010	93.66.7.060
39.61.0.125.0060	(110...125)V AC/DC	34.51.7.060.0010	93.66.0.125
39.61.0.240.0060	(24...240)V AC/DC	34.51.7.024.0010	93.66.0.240
39.61.8.230.0060	(230...240)V AC	34.51.7.060.0010	93.66.8.230
39.61.7.125.0060	(110...125)V DC	34.51.7.060.0010	93.66.7.125
39.61.7.220.0060	220 V DC	34.51.7.060.0010	93.66.7.220
39.61.3.125.0060	(110...125)V AC/DC	34.51.7.060.0010	93.66.3.125
39.61.3.230.0060	(230...240)V AC	34.51.7.060.0010	93.66.3.230
MasterINPUT			
39.71.0.006.5060	6 V AC/DC	34.51.7.005.5010	93.67.7.024
39.71.0.012.5060	12 V AC/DC	34.51.7.012.5010	93.67.7.024
39.71.0.024.5060	24 V AC/DC	34.51.7.024.5010	93.67.7.024
39.71.0.125.5060	(110...125)V AC/DC	34.51.7.060.5010	93.67.0.125
39.71.8.230.5060	(230...240)V AC	34.51.7.060.5010	93.67.8.230
MasterOUTPUT 1 NO, 6 A only			
39.51.0.006.0060	6 V AC/DC	34.51.7.005.0010	93.65.7.024
39.51.0.012.0060	12 V AC/DC	34.51.7.012.0010	93.65.7.024
39.51.0.024.0060	24 V AC/DC	34.51.7.024.0010	93.65.7.024
39.51.0.125.0060	(110...125)V AC/DC	34.51.7.060.0010	93.65.0.125
39.51.8.230.0060	(230...240)V AC	34.51.7.060.0010	93.65.8.230
MasterTIMER			
39.91.0.012.0060	12 V AC/DC	34.51.7.012.0010	93.69.0.024
39.91.0.024.0060	24 V AC/DC	34.51.7.024.0010	93.69.0.024

Solid State Relay (1 Pole 0.1 or 2 A) & Push-in Socket Combinations

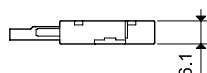
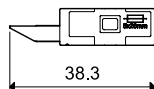
Interface Module Code	Input voltage	Relay	Socket
MasterBASIC			
39.00.7.006.xxxx	6 V DC	34.81.7.005.xxxx	93.60.7.024
39.00.7.012.xxxx	12 V DC	34.81.7.012.xxxx	93.60.7.024
39.00.7.024.xxxx	24 V DC	34.81.7.024.xxxx	93.60.7.024
39.00.0.125.xxxx	(110...125)V AC/DC	34.81.7.060.xxxx	93.60.0.125
39.00.8.230.xxxx	(230...240)V AC	34.81.7.060.xxxx	93.60.8.230
MasterPLUS			
39.60.7.006.xxxx	6 V DC	34.81.7.005.xxxx	93.66.7.024
39.60.7.012.xxxx	12 V DC	34.81.7.012.xxxx	93.66.7.024
39.60.7.024.xxxx	24 V DC	34.81.7.024.xxxx	93.66.7.024
39.60.7.060.xxxx	60 V DC	34.81.7.060.xxxx	93.66.7.060
39.60.7.125.xxxx	(110...125)V DC	34.81.7.060.xxxx	93.66.7.125
39.60.7.220.xxxx	220 V DC	34.81.7.060.xxxx	93.66.7.220
39.60.0.024.xxxx	24 V AC/DC	34.81.7.024.xxxx	93.66.0.024
39.60.0.125.xxxx	(110...125)V AC/DC	34.81.7.060.xxxx	93.66.0.125
39.60.0.240.xxxx	(24...240)V AC/DC	34.81.7.024.xxxx	93.66.0.240
39.60.8.230.xxxx	(230...240)V AC	34.81.7.060.xxxx	93.66.8.230
39.60.3.125.xxxx	(110...125)V AC/DC	34.81.7.060.xxxx	93.66.3.125
39.60.3.230.xxxx	(230...240)V AC	34.81.7.060.xxxx	93.66.3.230
MasterINPUT			
39.70.7.006.xxxx	6 V DC	34.81.7.005.xxxx	93.67.7.024
39.70.7.012.xxxx	12 V DC	34.81.7.012.xxxx	93.67.7.024
39.70.7.024.xxxx	24 V DC	34.81.7.024.xxxx	93.67.7.024
39.70.0.024.xxxx	24 V AC/DC	34.81.7.024.xxxx	93.67.0.024
39.70.0.125.xxxx	(110...125)V AC/DC	34.81.7.060.xxxx	93.67.0.125
39.70.8.230.xxxx	(230...240)V AC	34.81.7.060.xxxx	93.67.8.230
MasterOUTPUT			
39.50.7.006.xxxx	6 V DC	34.81.7.005.xxxx	93.65.7.024
39.50.7.012.xxxx	12 V DC	34.81.7.012.xxxx	93.65.7.024
39.50.7.024.xxxx	24 V DC	34.81.7.024.xxxx	93.65.7.024
39.50.0.125.xxxx	(110...125)V AC/DC	34.81.7.060.xxxx	93.65.0.125
39.50.8.230.xxxx	(230...240)V AC	34.81.7.060.xxxx	93.65.8.230
MasterTIMER			
39.90.0.012.xxxx	12 V AC/DC	34.81.7.012.xxxx	93.69.0.024
39.90.0.024.xxxx	24 V AC/DC	34.81.7.024.xxxx	93.69.0.024

Accessories



093.63

Approvals
(according to type):



Output fuse module for 39.31/30/81/80/61/60/91/90 types

093.63

- For 5 x 20 mm fuses up to 6 A, 250 V
- Easy visibility of the fuse condition through the window
- Quick connection to socket

Notes

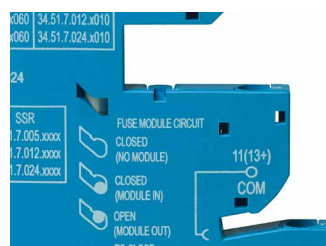
Safety: Because the output circuit can be reinstated (point 3 below), even with the fuse removed, it is important not to consider the removal of the fuse as a "safety disconnect". Always isolate elsewhere before working on the circuit.

UL: According to UL508A, the fuse module cannot be installed in power circuits (in which it is mandatory that a fuse certified according to UL category JDDZ be fitted). However, where the MasterInterface is connected as an output interface to a PLC no such restrictions apply, and the fuse module can be usefully employed.

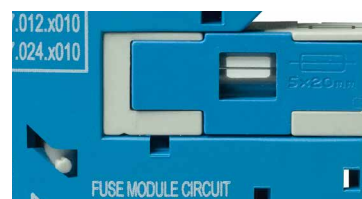
Multi-state fuse module

- 0.** As delivered, the socket comes without a fuse module. However, the absent fuse is internally replaced with an electrical link - which allows the interface relay to be used without a fuse module.

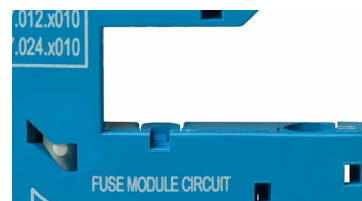
In this state, the peg/indicator is visually hidden and the connection is protected by a special cap.



- 1.** With fuse module inserted after removing the cap, the fuse is positioned electrically in series with the common output terminal of the interface module (11 for EMR versions, 13+ for SSR versions, 15 for EMR timer, 15+ for SSR timer). This state is indicated by the peg/indicator.



- 2.** If the fuse module is extracted (for example; because the fuse element has blown) the output circuit will be locked open, as this will generally be the "safe option". This state is indicated by the peg/indicator.



- 3.** In order to reinstate the output circuit it is necessary to either re-insert the fuse module (complete with functional fuse), or alternatively, return the peg/indicator to position **0** by gently applying pressure in the direction of the arrow.



Accessories



093.16



093.16.0



093.16.1

Approvals

(according to type):



16-way jumper link

Rated values

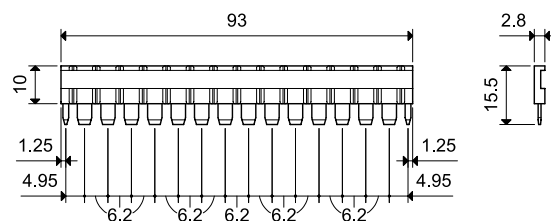
093.16 (blue)

093.16.0 (black)

093.16.1 (red)

6 A - 250 V

Possibility of multiple connection, side by side



B



093.60



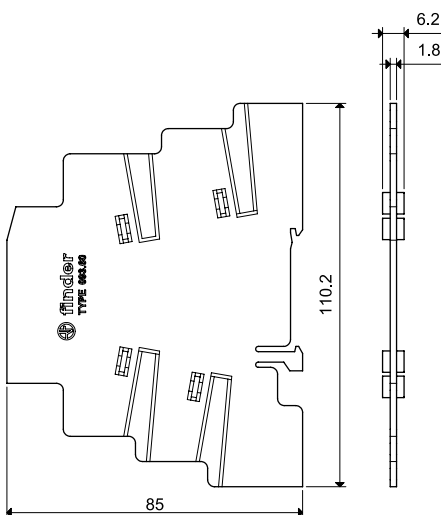
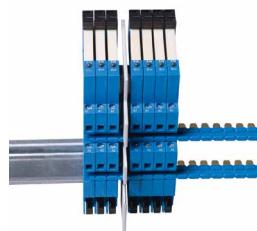
Dual-purpose plastic separator (1.8 mm or 6.2 mm separation)

093.60

1. By breaking off the protruding ribs (by hand), the separator becomes only 1.8 mm thick; useful for the visual separation of different groups of interfaces, or necessary for the protective separation of different voltages of neighbouring interfaces, or for the protection of cut ends of jumper links.



2. Leaving the ribs in place provides 6.2 mm separation. Simply cutting (with scissors) the relevant segment(s) permits the interconnection across the separator of 2 different groups of interface relays, using the standard jumper link.



060.72

Sheet of marker tags, plastic, 72 tags, 6 x 12 mm

060.72



093.62

Terminal doubler (for Push-in sockets only)

Total load

093.62

6 A - 300 V

Max. wire size

mm² 2 x 1.5

AWG 2 x 16

Solid and stranded cable

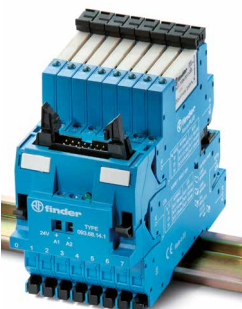
39 Series - Relay interface modules 0.1 - 2 - 6 A

Accessories



093.68.14.1

Approvals
(according to type):



Connected MasterADAPTER

MasterADAPTER		093.68.14.1
The MasterADAPTER permits the easy connection of A1/A2 terminals of up to MasterINTERFACE modules to PLC outputs via a 14-Pole ribbon cable, plus simple 2-wire power supply connection.		
Technical data		
Rated current (per signal path)	A	1
Minimum required supply power	W	3
Nominal voltage (U _N)	V DC	24
Operating range		(0.8...1.1)U _N
Control logic		Positive switching (to A1)
Power supply status indication		Green LED
Ambient temperature range	°C	-40...+70
Terminals for 24 V control logic		
Type of connector		14 pole, according to IEC 60603-13
Terminals for 24 V power supply		
Wire strip length	mm	9.5
Screw torque	Nm	0.5
Max. wire size	solid wire	mm ² 1 x 4 / 2 x 1.5
		AWG 1 x 12 / 2 x 16
	stranded wire	mm ² 1 x 2.5 / 2 x 1.5
		AWG 1 x 14 / 2 x 16

Wiring diagram

