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SWITCH TO THE FUTURE

34
SERIES

Ultra-slim PCB Relays (EMR or SSR) 0.1 - 0.2 - 2 - 6 A

- Bottling plant
- Packaging machines
- Labelling machines
- Road / tunnel lighting
- Burners, boilers and furnaces
- Timers and lighting controls
- Electronic circuit boards
- Programmable controllers



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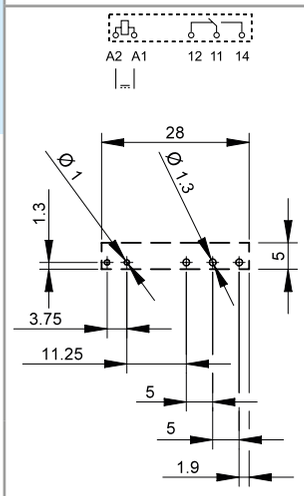
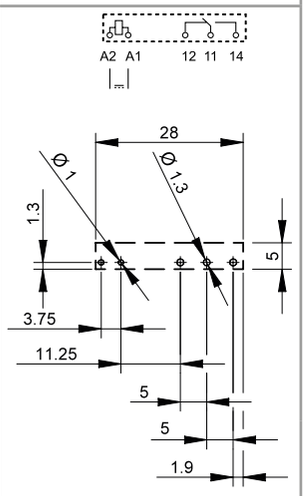
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Ultra-slim 1 Pole - 6 A relay

Printed circuit mount
- direct or via PCB socket
35 mm rail mount
- via screw, screwless or push-in terminal sockets

- 1 Pole changeover contacts or 1 Pole normally open contact
- Ultra slim (5 mm), package
- Sensitive DC coil - 170 mW (Dual AC/DC coil drive possible using 93 series sockets)
- UL Listing (certain relay/socket combinations)
- Cadmium Free contact materials
- 8/8 mm clearance/creepage distance
- 6 kV (1.2/50 µs) insulation, coil-contacts

For UL ratings see: "General technical information" page V

	34.51	**34.51-5010**
		
	• 5 mm wide • Low coil power • PCB or 93 series sockets	• 5 mm wide • Low coil power • PCB or 93 series sockets • Contact AgNi + Au
		
For outline drawing see page 9	Copper side view	Copper side view

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)	50 (5/2)
Standard contact material		AgNi	AgNi + Au
Coil specification			
Nominal voltage (U_N)	V AC (50/60 Hz)	—	—
	V DC	5 - 12 - 24 - 48 - 60	5 - 12 - 24 - 48 - 60
Rated power AC/DC	VA (50 Hz)/W	—/0.17	—/0.17
Operating range	AC	—	—
	DC	(0.7…1.5)U_N	(0.7…1.5)U_N
Holding voltage	AC/DC	—/0.4 U_N	—/0.4 U_N
Must drop-out voltage	AC/DC	—/0.05 U_N	—/0.05 U_N
Technical data			
Mechanical life AC/DC	cycles	—/10 · 10^6	—/10 · 10^6
Electrical life at rated load AC1	cycles	60 · 10^3	60 · 10^3
Operate/release time	ms	5/3	5/3
Insulation between coil and contacts (1.2/50 µs)	kV	6 (8 mm)	6 (8 mm)
Dielectric strength between open contacts	V AC	1000	1000
Ambient temperature range	°C	–40…+85	–40…+85
Environmental protection		RT II	RT II
Approvals (according to type)			

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34 SERIES
Ultra-Slim solid state PCB relays (SSR) 0.1 - 6 A

Ultra-slim Solid State Relays

Printed circuit mount
- direct or via PCB socket
35 mm rail mount
- via screw, screwless or push-in terminal sockets

- Single circuit output switching options
  - 6 A, 24 V DC
  - 2 A, 240 V AC
- Silent, high speed switching with long electrical life
- Ultra slim (5 mm), package
- Sensitive DC Input circuits (Dual AC/DC input drive possible using 93 series sockets)
- UL Listing (certain relay/socket combinations)
- Wash tight: RT III
- 3000 V AC insulation, input-output

NEW **34.81.7.xxx.9024**

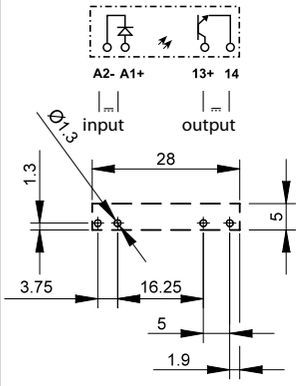


- 6 A, 24 V DC output switching
- PCB or 93 series sockets

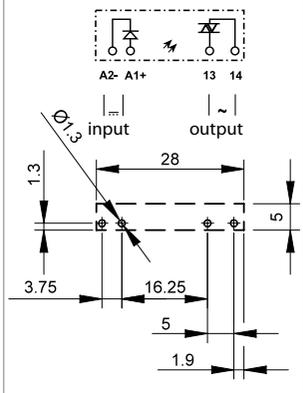
34.81.7.xxx.8240



- 2 A, 240 V AC output switching
- Zero crossing switching
- PCB or 93 series sockets



Copper side view



Copper side view

For outline drawing see page 9

Output circuit									
Contact configuration		1 NO (SPST-NO)				1 NO (SPST-NO)			
Rated current/ Maximum peak current (10 ms)	A	6/50				2/80			
Rated switching voltage	V	24 DC				240 AC (50/60 Hz)			
Switching voltage range	V	(1.5…33)DC				(12…275)AC			
Maximum blocking voltage	V	33				—			
Repetitive peak off-state voltage	V_{pk}	—				800			
Rated load DC13	W	36				—			
Rated load AC15	VA	—				300			
Minimum switching current	mA	1				35			
Max. "OFF-state" leakage current	mA	0.001				1.5			
Max. "ON-state" voltage drop	V	0.4				1.6			
Supply specification									
Nominal voltage (U_N)	V DC	5	12	24	60	5	12	24	60
Rated power	W	0.035	0.085	0.17	0.21	0.06	0.085	0.17	0.21
Operating range	V DC	3.5…12	8…17	16…30	35…72	3.5…10	8…17	16…30	35…72
Control current	mA	7	7	7	3.5	12	7	7	3.5
Release voltage	V DC	4	4	10	20	1	4	10	20
Technical data									
Electrical life at rated load	cycles	> 10^6				> 10^6			
Operate/release time	ms	0.02/0.2				11/11			
Insulation between input and output (1.2/50µs)	kV	4				4			
Ambient temperature range	°C	–20…+70*				–20…+50*			
Environmental protection		RT III				RT III			
Approvals (according to type)		CE UK CA cULus							

* Note: all technical data relates to using the relay directly on PCB or PCB socket type 93.11.
If the relay is used with 35 mm rail socket types 93.01 and 93.51, refer to the technical data of 38 Series; if used with types 93.60, 93.61, 93.62, 93.63, 93.64, 93.65, 93.66, 93.67,93.68 and 93.69, refer to the technical data of the *Master**INTERFACE*** 39 Series. See L34 diagrams page 8

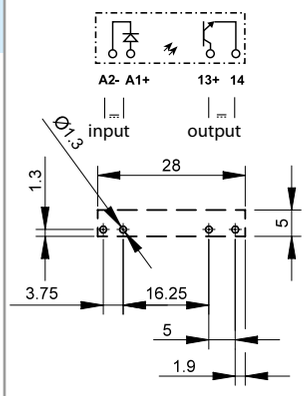
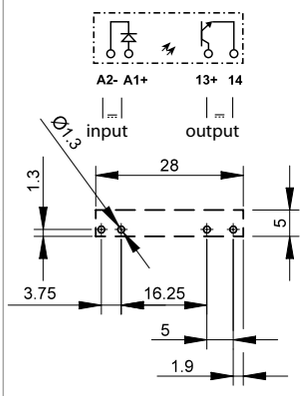
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Ultra-slim Solid State Relays

Printed circuit mount
- direct or via PCB socket
35 mm rail mount
- via screw, screwless or push-in terminal sockets

- Single circuit output switching options
  - 0.1 A, 48 V DC
  - 0.2 A, 220 V DC
- Silent, high speed switching with long electrical life
- Ultra slim (5 mm), package
- Sensitive DC Input circuits (Dual AC/DC input drive possible using 93 series sockets)
- UL Listing (certain relay/socket combinations)
- Wash tight: RT III
- 3000 V AC insulation, input-output

	34.81.7.xxx.7048	**NEW 34.81.7.xxx.7220**
		
	• 100 mA, 48 V DC output switching • PCB or 93 series sockets	• 200 mA, 110/220 V DC output switching • PCB or 93 series sockets
		
For outline drawing see page 9	Copper side view	Copper side view

Output circuit					
Contact configuration		1 NO (SPST-NO)		1 NO (SPST-NO)	
Rated current/ Maximum peak current (10 ms)	A	0.1/0.5		0.2/10	
Rated switching voltage	V	48 DC		220 DC	
Switching voltage range	V	(1.5…53)DC		(90…256)DC	
Maximum blocking voltage	V	53		256	
Rated load DC13	W	2.4		44	
Minimum switching current	mA	0.05		0.05	
Max. "OFF-state" leakage current	mA	0.001		0.001	
Max. "ON-state" voltage drop	V	1		0.4	
Supply specification					
Nominal voltage (U_N)	V DC	24	60	24	60
Rated power	W	0.17	0.21	0.17	0.21
Operating range	V DC	16…30	35…72	16…30	35…72
Control current	mA	7	3.5	7	3.5
Release voltage	V DC	10	20	10	20
Technical data					
Electrical life at rated load	cycles	> 10^6		> 10^6	
Operate/release time	ms	0.03/0.6		0.4/2.2	
Insulation between input and output (1.2/50µs)	kV	4		4	
Ambient temperature range	°C	–20…+70*		–20…+70*	
Environmental protection		RT III		RT III	
Approvals (according to type)					

* Note: all technical data relates to using the relay directly on PCB or PCB socket type 93.11.
If the relay is used with 35 mm rail socket types 93.01 and 93.51, refer to the technical data of 38 Series; if used with types 93.60, 93.61, 93.62, 93.63, 93.64, 93.65, 93.66, 93.67,93.68 and 93.69, refer to the technical data of the *Master**INTERFACE*** 39 Series.

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A

Ordering information

Electromechanical relay (EMR)

Example: 34 series Ultra-Slim electromechanical relay, 1 CO (SPDT) 6 A contacts, 24 V sensitive DC coil.

								A		B		C	D
3	4	.	5	1	.	7	.	0	2	4	.	0	0	1	0

Series

Type
5 = Electromechanical type

No. of poles
1 = 1 pole, 6 A

Coil version
7 = Sensitive DC

Coil voltage
See coil specifications

A: Contact material
0 = Standard AgNi
4 = $AgSnO_2$
5 = AgNi + Au

B: Contact circuit
0 = CO (SPDT)
3 = NO (SPST)

C: Options
1 = None

D: Special versions
0 = Flux proof (RT II)
9 = Flat version

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
34.51	sens. DC	**0** - 4 - 5	**0** - 3	**1**	**0**
34.51	sens. DC	0 - 4 - 5	0	1	9

Solid state relay (SSR)

Example: 34 series solid state relay, 6 A 24 V DC output, 24 V DC supply.

3	4	.	8	1	.	7	.	0	2	4	.	9	0	2	4

Series

Type
8 = SSR type

Output
1 = 1 NO (SPST-NO)

Input circuit
See input specifications

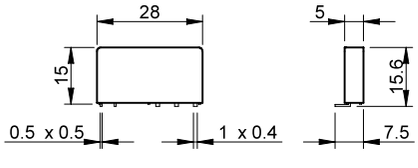
Output circuit
9024 = 6 A - 24 V DC
7048 = 0.1 A - 48 V DC
7220 = 0.2 A - 220 V DC
8240 = 2 A - 240 V AC

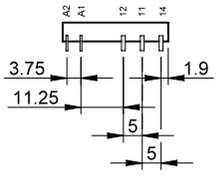
Flat pack version

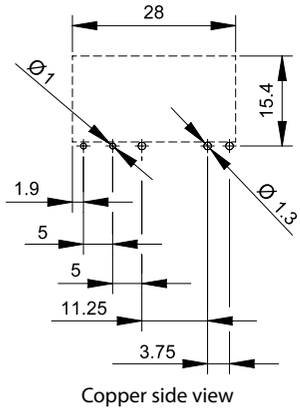


Option = 34.51.7xxx.x019

Environmental protection RT I







Copper side view

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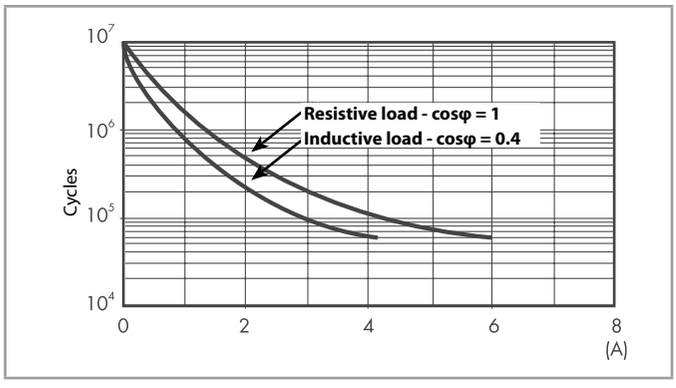
Electromechanical relay

Technical data

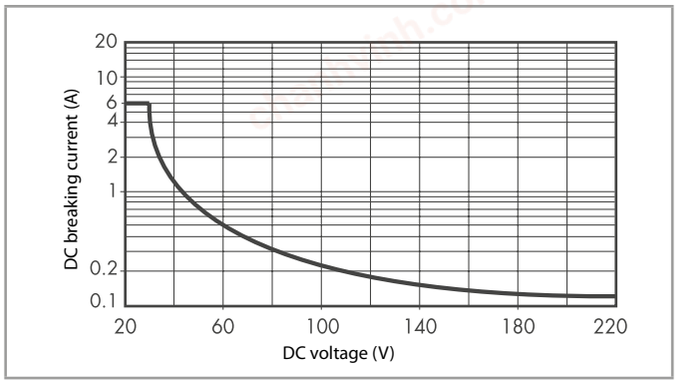
Insulation according to EN 61810-1				
Nominal voltage of supply system		V AC	230/400	
Rated insulation voltage		V AC	250	400
Pollution degree			3	2
Insulation between coil and contact set				
Type of insulation			Reinforced	
Overvoltage category			III	
Rated impulse voltage		kV (1.2/50 µs)	6	
Dielectric strength		V AC	4000	
Insulation between open contacts				
Type of disconnection			Micro-disconnection	
Dielectric strength		V AC/kV (1.2/50 µs)	1000/1.5	
Insulation between coil terminals				
Rated impulse voltage (surge) differential mode (according to EN 61000-4-5)		kV (1.2/50 µs)	2	
Other data				
Bounce time: NO/NC		ms	1/6	
Vibration resistance (5…55)Hz: NO/NC		g	10/5	
Shock resistance		g	20/14	
Power lost to the environment	without contact current	W	0.2	
	with rated current	W	0.5	
Recommended distance between relays mounted on PCB		mm	≥ 5	

Contact specification

F 34 - Electrical life (AC) v contact current



H 34 - Maximum DC1 breaking capacity



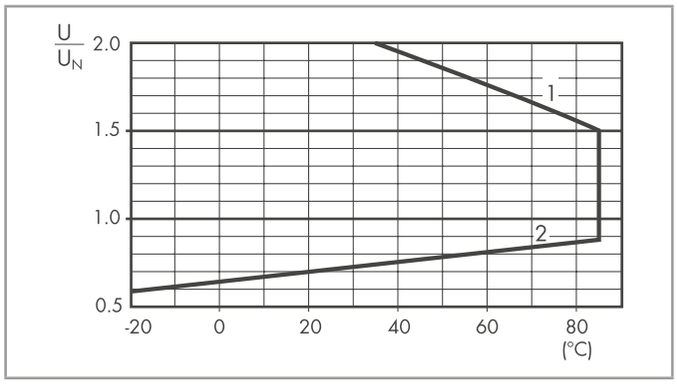
- When switching a resistive load (DC1) having voltage and current values under the curve, an electrical life of ≥ $60 \cdot 10^3$ can be expected.
- In the case of DC13 loads, the connection of a diode in parallel with the load will permit a similar electrical life as for a DC1 load.
  Note: the release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

Coil specifications

DC coil data

Nominal voltage U_N	Coil code	Operating range U_{min}	Operating range U_{max}	Resistance R	Rated coil consumption I at U_N
V		V	V	Ω	mA
5	**7**.005	3.5	7.5	130	38.4
12	**7**.012	8.4	18	840	14.2
24	**7**.024	16.8	36	3350	7.1
48	**7**.048	33.6	72	12300	3.9
60	**7**.060	42	90	19700	3

R 34 - DC coil operating range v ambient temperature



1 - Max. permitted coil voltage.
2 - Min. pick-up voltage with coil at ambient temperature.

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Solid state relay

A

Technical data

Insulation			Dielectric strength	Impulse (1.2/50 µs)
Between input and output			3000 V AC	4 kV
EMC specifications		**Reference standard**		
Electrostatic discharge	contact discharge	EN 61000-4-2	4 kV	
	air discharge	EN 61000-4-2	8 kV	
Radiated electromagnetic field (80…1000 MHz)		EN 61000-4-3	10 V/m	
Fast transients on supply terminals (burst 5/50 ns, 5 and 100 kHz)		EN 61000-4-4	2 kV	
Voltage pulses on supply terminals (surge 1.2/50 µs)	common mode	EN 61000-4-5	0.7 kV	
	differential mode	EN 61000-4-5	0.7 kV*	
Radio-frequency common mode voltage (0.15…230 MHz)		EN 61000-4-6	10 V	
Other data				
Power lost to the environment	without output current	W	0.15	
	with rated current	W	0.4	

* For 34.81.7.005…= 0.3 kV ; for 34.81.7.012…= 0.5 kV

Input specification

Input data - DC types

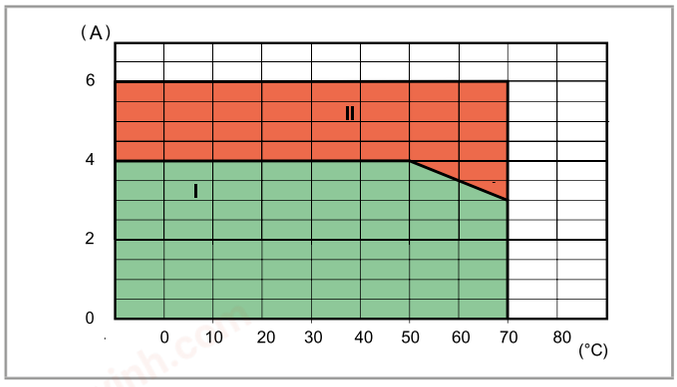
Nominal voltage U_N	Input code	Operating range U_{min}	Operating range U_{max}	Release voltage	Impedance	Control current I at U_N
V		V	V	V	Ω	mA
5	**7**.005	3.5	12*	1	715	7*
12	**7**.012	8	17	4	1715	7
24	**7**.024	16	30	10	3430	7
60	**7**.060	35	72	20	17000	3.5

* For 34.81.7.005.8240: U_{MAX} = 10 V, I @ 5 V = 12 mA

Output specification

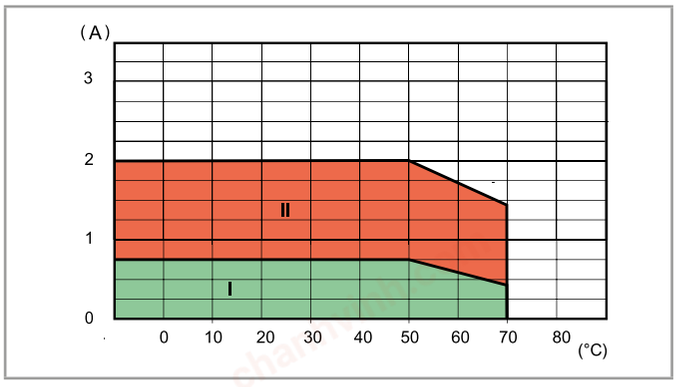
L 34-1 - Output DC current v ambient temperature

34.81.7…9024



L 34 - Output AC current v ambient temperature

34.81.7…8240



I: SSR installed on 93 series sockets as a group (without gap between sockets)

II: SSR installed individually in free air , or with a gap ≥ 9 mm, which implies a not significant influence from nearby components

Max recommended switching frequency (Cycles/Hour, with 50% Duty-cycle) at ambient temperature 50°C, single mounting

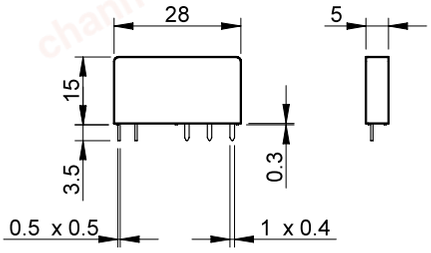
Load	34.81.7xxx.**9024**	34.81.7xxx.**8240**	34.81.7xxx.**7048**	34.81.7xxx.**7220**
24 V 6 A DC1	180 000	—	—	—
24 V 3 A DC L/R = 10 ms	5000	—	—	—
24 V 2 A DC L/R = 40 ms	3600	—	—	—
24 V 1 A DC L/R = 40 ms	6500	—	—	—
24 V 0.8 A DC L/R = 40 ms	9000	—	—	—
24 V 1.5 A DC L/R = 80 ms	3250	—	—	—
230 V 2 A AC1	—	60 000	—	—
230 V 1.25 A AC15	—	3600	—	—
48 V 0.1 A DC1	—	—	60 000	—
220 V 0.2 A DC1	—	—	—	60 000

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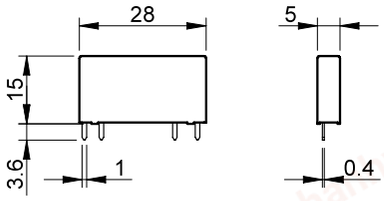
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Outline drawings

Type 34.51

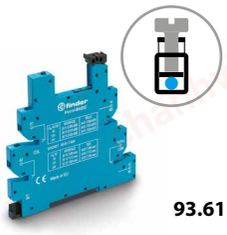


Type 34.81



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93 SERIES
Sockets and accessories for 34 series relays



93.61

Screw terminal socket 35 mm rail mounting (EN 60715)

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

For technical data and supply versions, refer to the Master***INTERFACE*** **39 Series** – "Relay interface module"

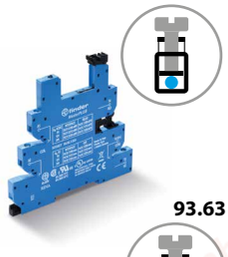


93.62

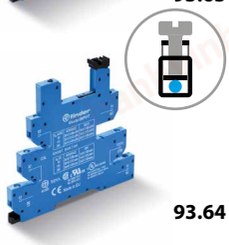
Electromechanical Relay - EMR

Supply voltage	Relay type	Socket type (reference with the 39 Series)				
		*Master**BASIC*** (39.11.....)	*Master**PLUS*** (39.31.....)	*Master**INPUT*** (39.41.....)	*Master**OUTPUT*** (39.21.....)	*Master**TIMER*** (39.81.....)
6 V AC/DC	34.51.7.005.xx10	93.61.7.024	93.63.7.024	93.64.7.024	93.62.7.024	—
12 V AC/DC	34.51.7.012.xx10	93.61.7.024	93.63.7.024	93.64.7.024	93.62.7.024	93.68.0.024
24 V AC/DC	34.51.7.024.xx10	93.61.7.024	93.63.7.024	93.64.7.024	93.62.7.024	93.68.0.024
60 V AC/DC	34.51.7.060.xx10	—	93.63.7.060	—	—	—
(110…125)V AC/DC*	34.51.7.060.xx10	—	93.63.3.125	—	—	—
(220…240)V AC*	34.51.7.060.xx10	—	93.63.3.230	—	—	—
(110…125)V AC/DC	34.51.7.060.xx10	93.61.0.125	93.63.0.125	93.64.0.125	93.62.0.125	—
(24…240)V AC/DC	34.51.7.024.xx10	—	93.63.0.240	—	—	—
(220…240)V AC	34.51.7.060.xx10	93.61.8.230	93.63.8.230	93.64.8.230	93.62.8.230	—
(110…125)V DC	34.51.7.060.xx10	—	93.63.7.125	—	—	—
220 V DC	34.51.7.060.xx10	—	93.63.7.220	—	—	—

* Leakage current suppression



93.63



93.64

Solid State Relay - SSR

Supply voltage	Relay type	Socket type (reference with the 39 Series)				
		*Master**BASIC*** (39.10.....)	*Master**PLUS*** (39.30.....)	*Master**INPUT*** (39.40.....)	*Master**OUTPUT*** (39.20.....)	*Master**TIMER*** (39.80.....)
12 V AC/DC	34.81.7.012.xxxx	—	—	—	—	93.68.0.024
24 V AC/DC	34.81.7.024.xxxx	—	93.63.0.024	93.64.0.024	—	93.68.0.024
(110…125)V AC/DC*	34.81.7.060.xxxx	—	93.63.3.125	—	—	—
(220…240)V AC*	34.81.7.060.xxxx	—	93.63.3.230	—	—	—
(110…125)V AC/DC	34.81.7.060.xxxx	93.61.0.125	93.63.0.125	93.64.0.125	93.62.0.125	—
(24…240)V AC/DC	34.81.7.024.xxxx	—	93.63.0.240	—	—	—
(220…240)V AC	34.81.7.060.xxxx	93.61.8.230	93.63.8.230	93.64.8.230	93.62.8.230	—
6 V DC	34.81.7.005.xxxx	93.61.7.024	93.63.7.024	93.64.7.024	93.62.7.024	—
12 V DC	34.81.7.012.xxxx	93.61.7.024	93.63.7.024	93.64.7.024	93.62.7.024	—
24 V DC	34.81.7.024.xxxx	93.61.7.024	93.63.7.024	93.64.7.024	93.62.7.024	—
60 V DC	34.81.7.060.xxxx	—	93.63.7.060	—	—	—
(110…125)V DC	34.81.7.060.xxxx	—	93.63.7.125	—	—	—
220 V DC	34.81.7.060.xxxx	—	93.63.7.220	—	—	—

* Leakage current suppression



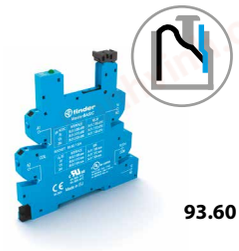
93.68

Approvals (according to type):

Accessories		
16-way jumper link		093.16 (blue), 093.16.0 (black), 093.16.1 (red)
Dual-purpose plastic separator		093.60
Sheet of marker tags		060.48 and 093.48
Technical data		
Rated values		6 A - 250 V
Dielectric strength		6 kV (1.2/50 µs) between coil and contacts
Protection category		IP 20
Ambient temperature	°C	–40…+70
Screw torque	Nm	0.5
Wire strip length	mm	10
Max wire size		Solid wire and stranded wire
	mm^2	1 x (0.5…2.5) / 2 x 1.5
	AWG	1 x (21…14) / 2 x 16

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93.60

Push-In terminal socket 35 mm rail mounting (EN 60715)

Common features
- Space saving 6.2 mm wide
- Connections for 16-way jumper link
- Terminal doubler 093.62
- Integral coil indication and protection circuit
- Secure retention and easy ejection by plastic clip

For technical data and supply versions, refer to the Master***INTERFACE* 39 Series** – "Relay interface module"

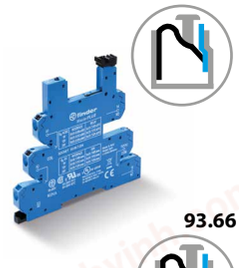


93.65

Electromechanical Relay - EMR

Supply voltage	Relay type	Socket type (reference with the 39 Series)				
		*Master**BASIC*** (39.01.....)	*Master**PLUS*** (39.61.....)	*Master**INPUT*** (39.71.....)	*Master**OUTPUT*** (39.51.....)	*Master**TIMER*** (39.91.....)
6 V AC/DC	34.51.7.005.xx10	93.60.7.024	93.66.7.024	93.67.7.024	93.65.7.024	—
12 V AC/DC	34.51.7.012.xx10	93.60.7.024	93.66.7.024	93.67.7.024	93.65.7.024	93.69.0.024
24 V AC/DC	34.51.7.024.xx10	93.60.7.024	93.66.7.024	93.67.7.024	93.65.7.024	93.69.0.024
60 V AC/DC	34.51.7.060.xx10	—	93.66.7.060	—	—	—
(110…125)V AC/DC*	34.51.7.060.xx10	—	93.66.3.125	—	—	—
(220…240)V AC*	34.51.7.060.xx10	—	93.66.3.230	—	—	—
(110…125)V AC/DC	34.51.7.060.xx10	93.60.0.125	93.66.0.125	93.67.0.125	93.65.0.125	—
(24…240)V AC/DC	34.51.7.024.xx10	—	93.66.0.240	—	—	—
(220…240)V AC	34.51.7.060.xx10	93.60.8.230	93.66.8.230	93.67.8.230	93.65.8.230	—
(110…125)V DC	34.51.7.060.xx10	—	93.66.7.125	—	—	—
220 V DC	34.51.7.060.xx10	—	93.66.7.220	—	—	—

* Leakage current suppression



93.66



93.67

Solid State Relay - SSR

Supply voltage	Relay type	Socket type (reference with the 39 Series)				
		*Master**BASIC*** (39.00.....)	*Master**PLUS*** (39.60.....)	*Master**INPUT*** (39.70.....)	*Master**OUTPUT*** (39.50.....)	*Master**TIMER*** (39.90.....)
12 V AC/DC	34.81.7.012.xxxx	—	—	—	—	93.69.0.024
24 V AC/DC	34.81.7.024.xxxx	—	93.66.0.024	93.67.0.024	—	93.69.0.024
(110…125)V AC/DC*	34.81.7.060.xxxx	—	93.66.3.125	—	—	—
(220…240)V AC*	34.81.7.060.xxxx	—	93.66.3.230	—	—	—
(110…125)V AC/DC	34.81.7.060.xxxx	93.60.0.125	93.66.0.125	93.67.0.125	93.65.0.125	—
(24…240)V AC/DC	34.81.7.024.xxxx	—	93.66.0.240	—	—	—
(220…240)V AC	34.81.7.060.xxxx	93.60.8.230	93.66.8.230	93.67.8.230	93.65.8.230	—
6 V DC	34.81.7.005.xxxx	93.60.7.024	93.66.7.024	93.67.7.024	93.65.7.024	—
12 V DC	34.81.7.012.xxxx	93.60.7.024	93.66.7.024	93.67.7.024	93.65.7.024	—
24 V DC	34.81.7.024.xxxx	93.60.7.024	93.66.7.024	93.67.7.024	93.65.7.024	—
60 V DC	34.81.7.060.xxxx	—	93.66.7.060	—	—	—
(110…125)V DC	34.81.7.060.xxxx	—	93.66.7.125	—	—	—
220 V DC	34.81.7.060.xxxx	—	93.66.7.220	—	—	—

* Leakage current suppression



93.69

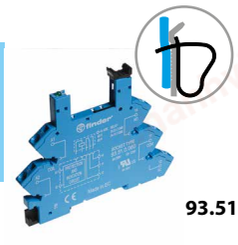
Approvals
(according to type):

Accessories	
16-way jumper link	093.16 (blue), 093.16.0 (black), 093.16.1 (red)
Dual-purpose plastic separator	093.60
Terminal doubler	093.62
Sheet of marker tags	060.48 and 093.48

Technical data		
Rated values		6 A - 250 V
Dielectric strength		6 kV (1.2/50 µs) between coil and contacts
Protection category		IP 20
Ambient temperature	°C	–40…+70
Wire strip length	mm	8
Max wire size		Solid wire and stranded wire
	mm^2	1 x (0.5…2.5)
	AWG	1 x (21…14)

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93 SERIES
Sockets and accessories for 34 series relays



93.51

Approvals (according to type):

Certain relay/socket combinations

Screw less terminal socket 35 mm rail mounting (EN 60715)

Common features
- Space saving 6.2 mm wide
- Connections for 20-way jumper link
- Integral coil indication and protection circuit
- Secure retention and easy ejection by plastic clip

For technical data and supply versions, refer to the **38 Series** – "Relay interface module"

Electromechanical Relay - EMR and Solid State Relay - SSR

Supply voltage	Relay type (reference with the 38 Series)		Socket type
	Electromechnanical relay - EMR (38.61.....)	Solid State Relay - SSR (38.81.....)	
12 V AC/DC	34.51.7.012.xx10	—	93.51.0.024
24 V AC/DC	34.51.7.024.xx10	—	93.51.0.024
(110…125)V AC/DC	34.51.7.060.xx10	34.81.7.060.xxxx	93.51.0.125
(220…240)V AC/DC	34.51.7.060.xx10	34.81.7.060.xxxx	93.51.0.240
(110…125)V AC/DC*	34.51.7.060.xx10	34.81.7.060.xxxx	93.51.3.125
(220…240)V AC*	34.51.7.060.xx10	34.81.7.060.xxxx	93.51.3.240
(220…240)V AC	34.51.7.060.xx10	34.81.7.060.xxxx	93.51.8.240
12 V DC	34.51.7.012.xx10	34.81.7.012.xxxx	93.51.7.024
24 V DC	34.51.7.024.xx10	34.81.7.024.xxxx	93.51.7.024
60 V DC	34.51.7.060.xx10	34.81.7.060.xxxx	93.51.7.060

* Leakage current suppression

Accessories		
20-way jumper link		093.20
Plastic separator		093.01
Sheet of marker tags		093.48
Technical data		
Rated values		6 A - 250 V
Dielectric strength		6 kV (1.2/50 µs) between coil and contacts
Protection category		IP 20
Ambient temperature ($U_N \leq 60$ V/> 60 V)	°C	–40…+70/–40…+55
Wire strip length	mm	10
Max wire size		Solid wire and stranded wire
	mm^2	1 x 2.5 / 2 x 1.5
	AWG	1 x 14 / 2 x 16

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93.11

Approvals (according to type):

PCB socket with retaining and release clip		**93.11 (blue)**
For relay type		34.51, 34.81
Technical data		
Rated values		6 A - 250 V
Dielectric strength		≥ 6 kV (1.2/50 µs) between coil and contacts
Protection category		IP 20
Ambient temperature	°C	–40…+70

Retaining and release clip use:

