

Relay interface modules 6 - 7 - 10 A



Control panels



Packaging
machines



Shipyards



Textile
machines



Carousel
warehouses



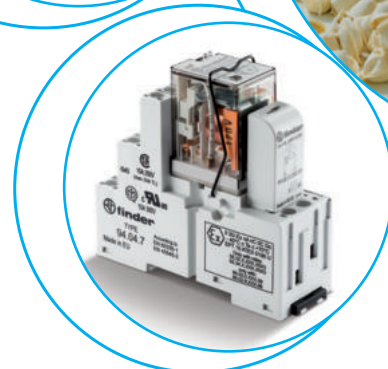
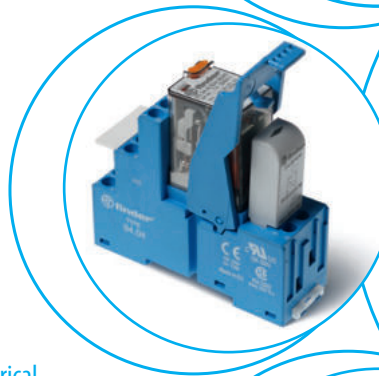
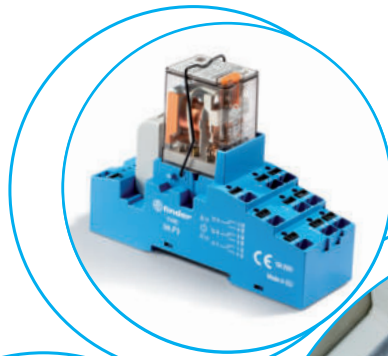
Panels for electrical
distribution



Hoists and cranes



Wood-processing
machines



**3 & 4 CO relay interface modules,
31 mm wide with Push-in terminals**
Ideal interface for PLC and electronic systems

Type 58.P3

- 3 CO 10 A
- Push-in terminals

Type 58.P4

- 4 CO 7 A
- Push-in terminals

- AC coils or DC coils
- Supply status indication and EMC coil suppression module as standard
- Identification label
- Cadmium Free contacts
- UL Listing (certain relay/socket combinations)
- 35 mm rail (EN 60715) mounting

58.P3 / 58.P4
Push-in terminals



For outline drawing see page 9

Contact specification

Contact configuration		3 CO (3PDT)	4 CO (4PDT)
Rated current/Maximum peak current	A	10/20	7/15
Rated voltage/ Maximum switching voltage	V AC	250/400	250/250
Rated load AC1	VA	2500	1750
Rated load AC15 (230 V AC)	VA	500	350
Single phase motor rating (230 V AC)	kW	0.37	0.125
Breaking capacity DC1: 30/110/220 V	A	10/0.25/0.12	7/0.25/0.12
Minimum switching load	mW (V/mA)	300 (5/5)	300 (5/5)
Standard contact material		AgNi	AgNi

Coil specification

Nominal voltage (U _N)	V AC (50/60 Hz)	12 - 24 - 48 - 110 - 120 - 230	12 - 24 - 48 - 110 - 120 - 230
	V DC	12 - 24 - 48 - 125	12 - 24 - 48 - 125
Rated power AC/DC	VA (50 Hz)/W	1.5/1	1.5/1
Operating range	AC	(0.8...1.1)U _N	(0.8...1.1)U _N
	DC	(0.8...1.1)U _N	(0.8...1.1)U _N
Holding voltage	AC/DC	0.8 U _N / 0.5 U _N	0.8 U _N / 0.5 U _N
Must drop-out voltage	AC/DC	0.2 U _N / 0.1 U _N	0.2 U _N / 0.1 U _N

Technical data

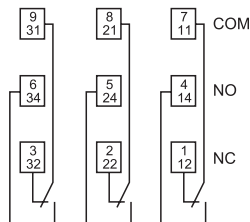
Mechanical life AC/DC	cycles	20 · 10 ⁶ / 50 · 10 ⁶	20 · 10 ⁶ / 50 · 10 ⁶
Electrical life at rated load AC1	cycles	200 · 10 ³	150 · 10 ³
Operate/release time	ms	10/5 (AC) - 10/15 (DC)	11/3 (AC) - 11/15 (DC)
Insulation between coil and contacts (1.2/50 μs)	kV	3.6	3.6
Dielectric strength between open contacts	V AC	1000	1000
Ambient temperature range	°C	-40...+70	-40...+70
Protection category		IP 20	IP 20

Approvals relay (according to type)

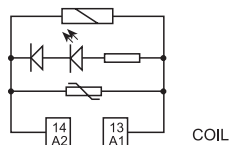
NEW 58.P3



- 3 CO 10 A
- Push-in terminals



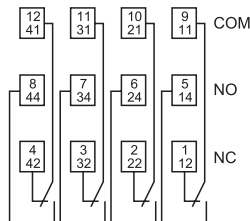
Example: AC



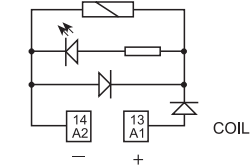
NEW 58.P4



- 4 CO 7 A
- Push-in terminals



Example: DC



**2, 3 & 4 CO relay interface modules,
27 mm wide with Screw terminals**
Ideal interface for PLC and electronic systems
Type 58.32

- 2 CO 10 A
- Screw terminals

Type 58.33

- 3 CO 10 A
- Screw terminals

Type 58.34

- 4 CO 7 A
- Screw terminals

- AC coils or DC coils
- Supply status indication and EMC coil suppression module as standard
- Identification label
- Cadmium Free contacts
- UL Listing (certain relay/socket combinations)
- 35 mm rail (EN 60715) mounting

 58.32 / 58.33 / 58.34
Screw terminals


For outline drawing see page 9

Contact specification

Contact configuration		2 CO (DPDT)	3 CO (3PDT)	4 CO (4PDT)
Rated current/Maximum peak current	A	10/20	10/20	7/15
Rated voltage/ Maximum switching voltage	V AC	250/400	250/400	250/250
Rated load AC1	VA	2500	2500	1750
Rated load AC15 (230 V AC)	VA	500	500	350
Single phase motor rating (230 V AC)	kW	0.37	0.37	0.125
Breaking capacity DC1: 30/110/220 V	A	10/0.25/0.12	10/0.25/0.12	7/0.25/0.12
Minimum switching load	mW (V/mA)	300 (5/5)	300 (5/5)	300 (5/5)
Standard contact material		AgNi	AgNi	AgNi

Coil specification

Nominal voltage (U_N)	V AC (50/60 Hz)	12 - 24 - 48 - 110 - 120 - 230	12 - 24 - 48 - 110 - 120 - 230	12 - 24 - 48 - 110 - 120 - 230
	V DC	12 - 24 - 48 - 125	12 - 24 - 48 - 125	12 - 24 - 48 - 125
Rated power AC/DC	VA (50 Hz)/W	1.5/1	1.5/1	1.5/1
Operating range	AC	$(0.8 \dots 1.1) U_N$	$(0.8 \dots 1.1) U_N$	$(0.8 \dots 1.1) U_N$
	DC	$(0.8 \dots 1.1) U_N$	$(0.8 \dots 1.1) U_N$	$(0.8 \dots 1.1) U_N$
Holding voltage	AC/DC	$0.8 U_N / 0.5 U_N$	$0.8 U_N / 0.5 U_N$	$0.8 U_N / 0.5 U_N$
Must drop-out voltage	AC/DC	$0.2 U_N / 0.1 U_N$	$0.2 U_N / 0.1 U_N$	$0.2 U_N / 0.1 U_N$

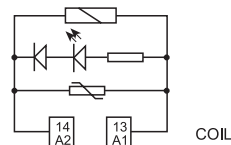
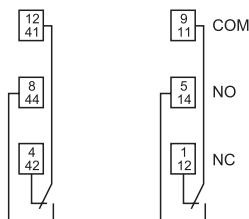
Technical data

Mechanical life AC/DC	cycles	$20 \cdot 10^6 / 50 \cdot 10^6$	$20 \cdot 10^6 / 50 \cdot 10^6$	$20 \cdot 10^6 / 50 \cdot 10^6$
Electrical life at rated load AC1	cycles	$200 \cdot 10^3$	$200 \cdot 10^3$	$150 \cdot 10^3$
Operate/release time	ms	10/5 (AC) - 10/15 (DC)	10/5 (AC) - 10/15 (DC)	11/3 (AC) - 11/15 (DC)
Insulation between coil and contacts (1.2/50 μ s)	kV	3.6	3.6	3.6
Dielectric strength between open contacts	V AC	1000	1000	1000
Ambient temperature range	$^{\circ}$ C	-40...+70	-40...+70	-40...+70
Protection category		IP 20	IP 20	IP 20

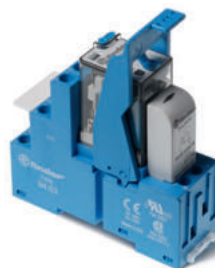
Approvals relay (according to type)

58.32

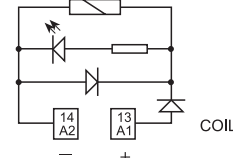
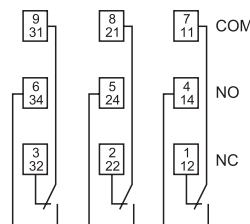

- 2 CO 10 A
- Screw terminals



Example: AC

58.33


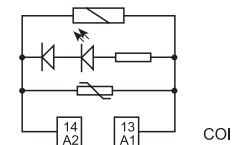
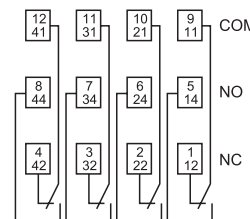
- 3 CO 10 A
- Screw terminals



Example: DC

58.34


- 4 CO 7 A
- Screw terminals



Example: AC

2 & 4 CO relay interface modules, 27 mm wide with Screw terminals ATEX compliant (EX nA nC)

Type 58.32 - x0xx

- 2 CO 10 A
- Screw terminals

Type 58.34 - x0xx

- 4 CO 6 A
- Screw terminals

- AC coils or DC coils
- Supply status indication and EMC coil suppression module as standard
- Mechanical indicator - optional on 2 & 4 CO types
- Identification label
- Cadmium Free contacts
- UL Listed
- Complies with:
 - EN 60079-0:2012 and EN 60079-15:2010
 - 94/9/CE and 2014/34/UE
- 35 mm rail (EN 60715) mounting

58.32 / 58.34 - x0xx
Screw terminals



For outline drawing see page 9

Contact specification

Contact configuration		2 CO (DPDT)	4 CO (4PDT)
Rated current/Maximum peak current	A	10/20	6/15
Rated voltage/Maximum switching voltage	V AC	250/400	250/250
Rated load AC1	VA	2500	1500
Rated load AC15 (230 V AC)	VA	500	350
Single phase motor rating (230 V AC)	kW	0.37	0.125
Breaking capacity DC1: 30/110/220 V	A	10/0.25/0.12	6/0.25/0.12
Minimum switching load	mW (V/mA)	300 (5/5)	300 (5/5)
Standard contact material		AgNi	AgNi

Coil specification

Nominal voltage (U _N)	V AC (50/60 Hz)	12 - 24 - 48 - 110 - 120 - 230	12 - 24 - 48 - 110 - 120 - 230
	V DC	12 - 24 - 48 - 125	12 - 24 - 48 - 125
Rated power AC/DC	VA (50 Hz)/W	1.5/1	1.5/1
Operating range	AC	(0.8...1.1)U _N	(0.8...1.1)U _N
	DC	(0.8...1.1)U _N	(0.8...1.1)U _N
Holding voltage	AC/DC	0.8 U _N / 0.5 U _N	0.8 U _N / 0.5 U _N
Must drop-out voltage	AC/DC	0.2 U _N / 0.1 U _N	0.2 U _N / 0.1 U _N

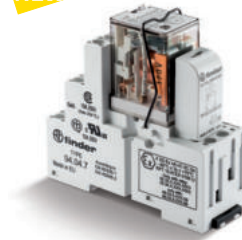
Technical data

Mechanical life AC/DC	cycles	20 · 10 ⁶ / 50 · 10 ⁶	20 · 10 ⁶ / 50 · 10 ⁶
Electrical life at rated load AC1	cycles	150 · 10 ³	150 · 10 ³
Operate/release time	ms	11/3 (AC) - 11/15 (DC)	11/3 (AC) - 11/15 (DC)
Insulation between coil and contacts (1.2/50 μs)	kV	3.6	3.6
Dielectric strength between open contacts	V AC	1000	1000
Ambient temperature range	°C	-40...+70	-40...+70
Protection category		IP 20	IP 20

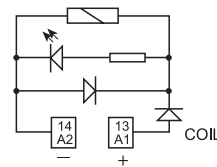
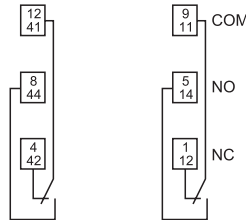
Approvals relay (according to type)



NEW 58.32 - x0xx



- 2 CO 10 A
- Screw terminals
- ATEX compliant

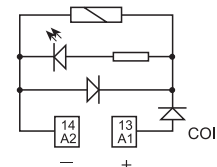
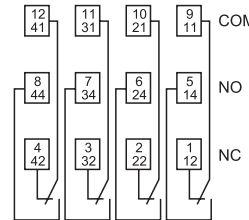


Example: DC

NEW 58.34 - x0xx



- 4 CO 6 A
- Screw terminals
- ATEX compliant



Example: DC

Ordering information

Example: 58 series, 35 mm rail (EN 60715) mounting, Push-in terminals interface module, 4 CO, 24 V DC coil, green LED + diode.

B Series **5 8 . P 4 . 9 . 0 2 4 . 0 0 5 0**

Type
3 = Screw terminals
35 mm rail (EN 60715) mount
P = Push-in terminals
35 mm rail (EN 60715) mount

No. of poles
2 = 2 pole, 10 A
3 = 3 pole, 10 A
4 = 4 pole, 7 A

Coil version
8 = AC (50/60 Hz)
9 = DC

Coil voltage
See coil specifications

A: Contact material
0 = AgNi Standard
5 = AgNi + Au

B: Contact circuit
0 = CO (nPDT)

C: Options
5 = Standard DC: green LED + diode (polarity +A1)
6 = Standard AC: green LED + Varistor

D: Special versions
0 = Standard

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
58.P3/P4/32/33/34	AC	0 - 5	0	6	0
58.P3/P4/32/33/34	DC	0 - 5	0	5	0

Ordering information ATEX versions

Example: 58 series, 35 mm rail (EN 60715), screw terminal interface module, 4 CO, 120 V AC, green LED, mechanical indicator, ATEX version

5 8 . 3 4 . 8 . 1 2 0 . 0 0 4 9

Series

Type
3 = Screw terminals
35 mm rail (EN 60715) mount

No. of poles
2 = 2 pole, 10 A
4 = 4 pole, 6 A

Coil version
8 = AC (50/60 Hz)
9 = DC

Coil voltage
See coil specifications

A: Contact material
0 = AgNi Standard
2 = AgCdO
5 = AgNi + Au

B: Contact circuit
0 = CO (nPDT)

C: Options
4 = Module 99 LED (AC/DC)
5 = Module 99 LED + Diode (DC)

D: Special versions
8 = ATEX compliant (Ex nA nC) without mechanical indicator
9 = ATEX compliant (Ex nA nC) with mechanical indicator

Technical data

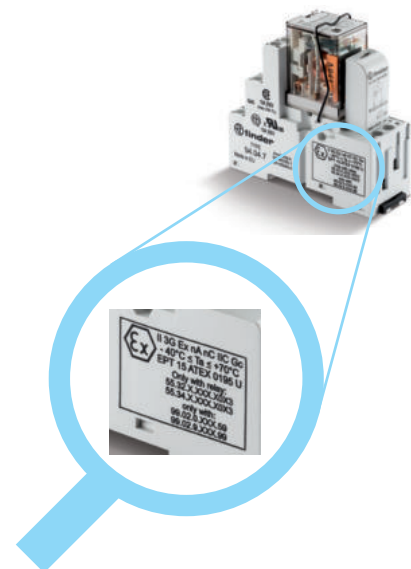
Insulation					
Insulation according to EN 61810-1	insulation rated voltage	V	400 (2-3 pole)	250 (4 pole)	
	rated impulse withstand voltage	kV	3.6 (2-3 pole)	2.5 (4 pole)	
	pollution degree		2	2	
	overvoltage category		III	II	
Insulation between coil and contacts (1.2/50 µs)		kV	3.6		
Dielectric strength between open contacts		V AC	1000		
Dielectric strength between adjacent contacts		V AC	2000 (58.32,58.33, 58.P3)	1550 (58.34, 58.P4)	
Conducted disturbance immunity					
Burst (5...50)ns, 5 kHz, on A1 - A2 according to EN 61000-4-4			level 4 (4 kV)		
Surge (1.2/50 µs) on A1 - A2 (differential mode) according to EN 61000-4-5			level 4 (4 kV)		
Other data					
Bounce time: NO/NC		ms	1/3		
Vibration resistance (10...55)Hz: NO/NC		g	6/6		
Power lost to the environment	without contact current	W	1		
	with rated current	W	3 (58.32, 58.34, 58.P4)	4 (58.P3, 58.33)	
			58.32/33/34 (screw terminals)	58.P3/P4 (Push-in terminals)	
Wire strip length		mm	8		
Screw torque		Nm	0.5		
Min. wire size	solid cable	mm ²	0.5	0.5	
		AWG	21	21	
	stranded cable	mm ²	1 x 6 / 2 x 2.5	1 x 4 / 2 x 2.5	2 x 1.5 / 1 x 2.5
		AWG	1 x 10 / 2 x 14	1 x 12 / 2 x 14	2 x 16 / 1 x 14
Max. wire size	solid cable	mm ²	0.5	0.5	
		AWG	21	21	
	stranded cable	mm ²	1 x 6 / 2 x 2.5	1 x 4 / 2 x 2.5	2 x 1.5 / 1 x 2.5
		AWG	1 x 10 / 2 x 14	1 x 12 / 2 x 14	2 x 16 / 1 x 14

Other data ATEX versions

Max current @ 70 °C		Single piece mount	> 1 piece mount
Type 58.32	A	10	7
Type 58.34	A	6	5
Terminal			
Wire strip length		mm	8
Screw torque		Nm	0.5
Wire size	solid cable		stranded cable
	mm ²	1 x 2.5	2 x 1.5
	AWG	1 x 12	2 x 16

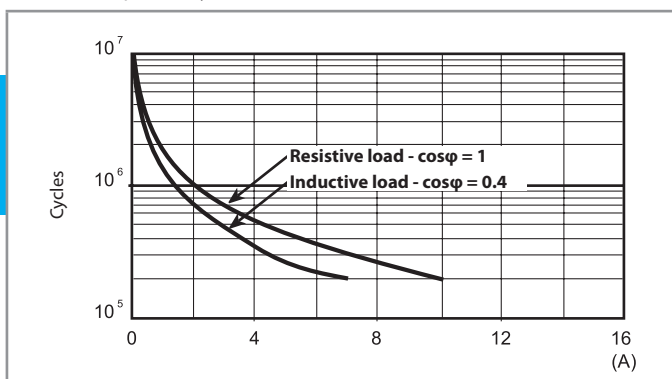
Markings - ATEX versions - ATEX, II 3G Ex nA nC IIC Gc

MARKING	
Specific marking of explosion protection	
II	
Component for surface plant (different from mines)	
3	
Category 3: normal level of protection	
GAS	G
	Explosive atmosphere due to presence of combustible gas vapour or mist
	Ex nA
	Non-sparking equipment
	Ex nC
Sealed device (type of protection for category 3G)	
IIC	
Gas group	
Gc	
Equipment Protection Level	
-40 °C ≤ Ta ≤ +70 °C	
Ambient temperature	
EPT 15 ATEX 0195 U	
EPT: laboratory which issues the CE type certificate	
15: year of issue of certificate	
0195: number of CE type certificate	
U: ATEX component	

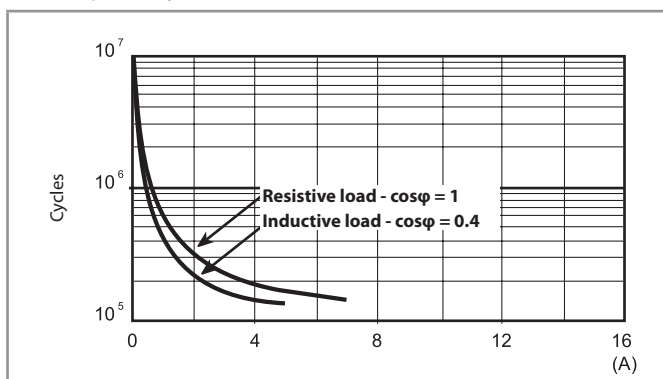


Contact specification

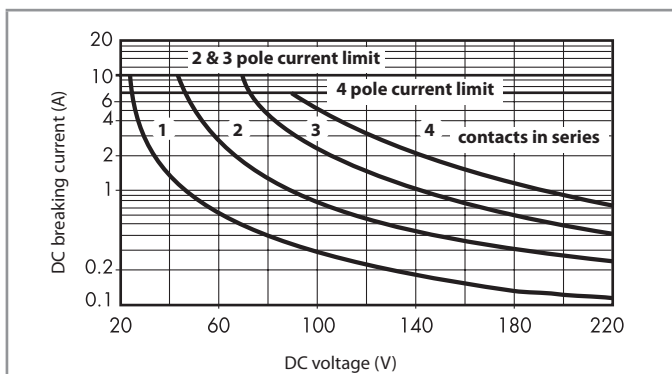
F 58 - Electrical life (AC) v contact current
2 & 3 pole relays



F 58 - Electrical life (AC) v contact current
4 pole relay



H 58 - Maximum DC1 breaking capacity



- When switching a resistive load (DC1) having voltage and current values under the curve, an electrical life of $\geq 100 \cdot 10^3$ 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

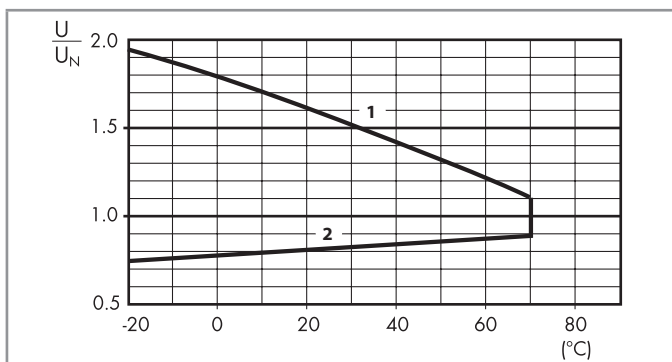
DC coil data

Nominal voltage U_N V	Coil code	Operating range		Resistance R Ω	Rated coil absorption I at U_N mA
		U_{min} V	U_{max} V		
12	9.012	9.6	13.2	140	86
24	9.024	19.2	26.4	600	40
48	9.048	38.4	52.8	2400	20
125	9.125	100	138	17300	7.2

AC coil data

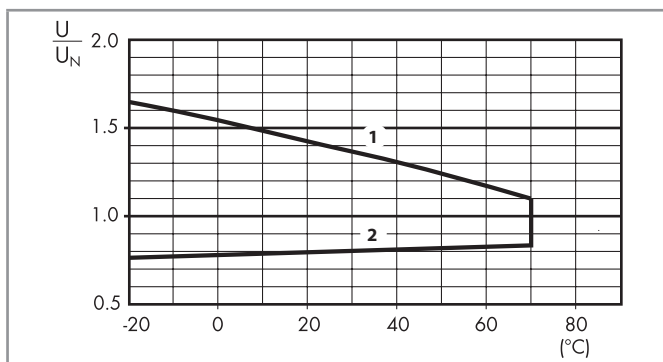
Nominal voltage U_N V	Coil code	Operating range		Resistance R Ω	Rated coil absorption I at U_N (50 Hz) mA
		U_{min} V	U_{max} V		
12	8.012	9.6	13.2	50	97
24	8.024	19.2	26.4	190	53
48	8.048	38.4	52.8	770	25
110	8.110	88	121	4000	12.5
120	8.120	96	132	4700	12
230	8.230	184	253	17000	6

R 58 - DC coil operating range v ambient temperature



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

R 58 - AC coil operating range v ambient temperature



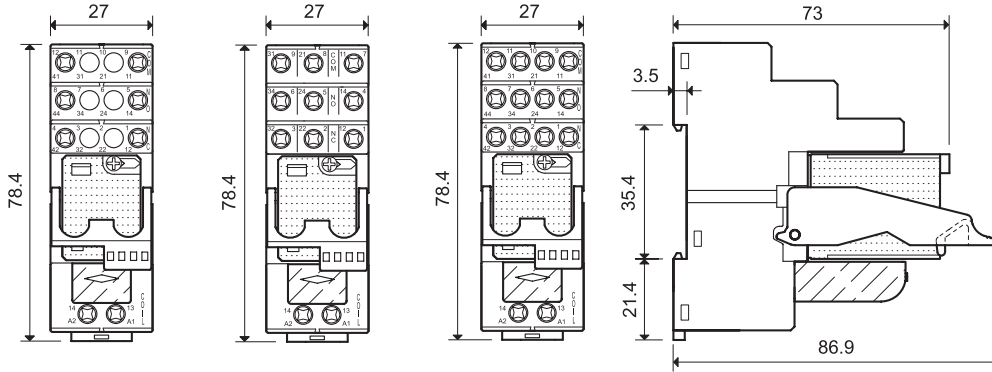
- 1 - Max. permitted coil voltage.
- 2 - Min. pick-up voltage with coil at ambient temperature.

Combinations

Certain relay/socket combinations

Code	Type of socket	Type of relay	Module	Retaining clip
58.P3	94.P3	55.33	99.02	094.91.3
58.P4	94.P4	55.34	99.02	094.91.3
58.32	94.02	55.32	99.02	094.91.3
58.33	94.03	55.33	99.02	094.91.3
58.34	94.04	55.34	99.02	094.91.3

Outline drawing



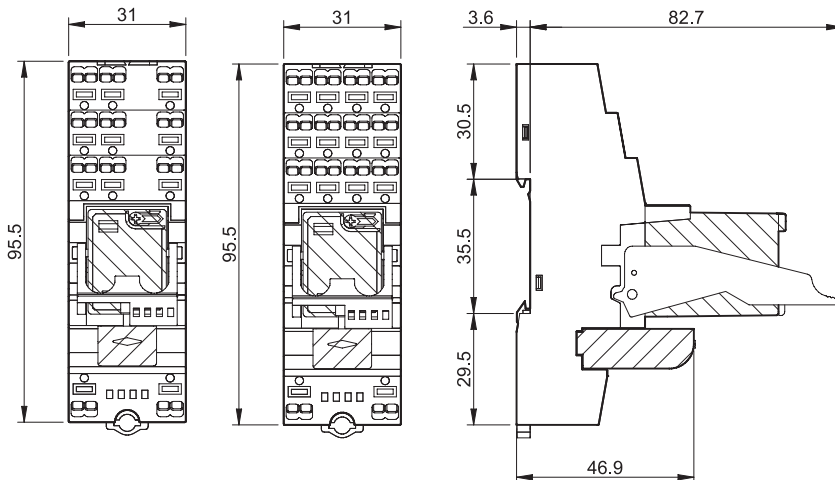
58.32
Screw terminals



58.33
Screw terminals



58.34
Screw terminals



58.P3
Push-in terminal

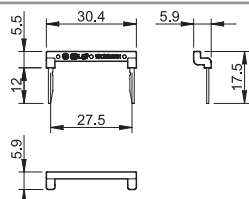


58.P4
Push-in terminal



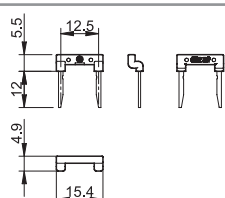
Accessories

2-way jumper link for type 58.P3 and 58.P4	094.52.1
Rated values	10 A - 250 V



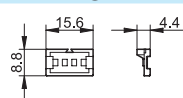
094.52.1

2-way jumper link for type 58.P3 and 58.P4	097.52
Rated values	10 A - 250 V



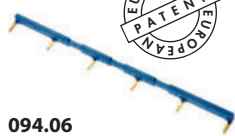
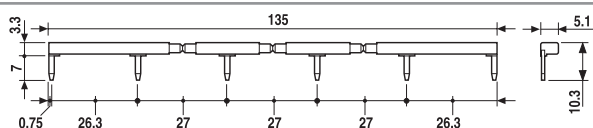
097.52

Marker tag holder for type 58.P3, 58.P4, 58.32, 58.33 and 58.34	097.00
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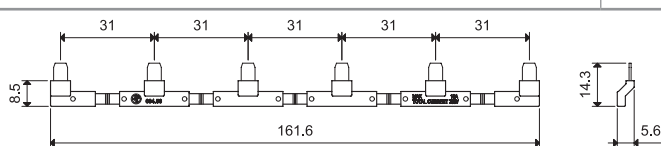
097.00

6-way jumper link for type 58.32, 58.33, 58.34	094.06 (blue)	094.06.0 (black)
Rated values	10 A - 250 V	



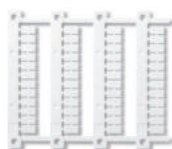
094.06

6-way jumper link for type 58.P3 and 58.P4	094.56 (blue)
Rated values	10 A - 250 V



094.56

Sheet of marker tags, plastic, 48 tags, 6 x 12 mm	060.48
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060.48

Packaging codes

How to code and identify retaining clip and packaging options for sockets.

Example:

5 8 . P 4 . 9 . 0 2 4 . 0 0 5 0 S P A

A Standard packaging
B Blister packaging

SP Plastic retaining clip
SM Metallic retaining clip
(58.32/33/34 - x0xx only)