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

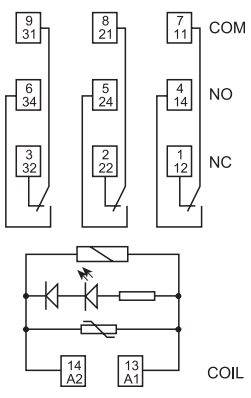
Type 58.P4
- 4 CO 7 A
- Push-in terminals

- 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

NEW **58.P3**

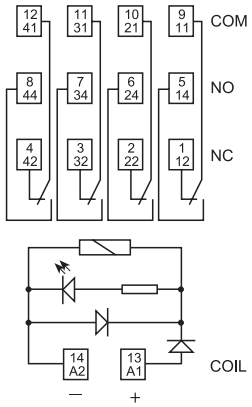
- 3 CO 10 A
- Push-in terminals



Example: AC

NEW **58.P4**

- 4 CO 7 A
- Push-in terminals



Example: DC

For outline drawing see page 7

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	$20 \cdot 10^6$ / $50 \cdot 10^6$	$20 \cdot 10^6$ / $50 \cdot 10^6$
Electrical life at rated load AC1	cycles	$200 \cdot 10^3$	$150 \cdot 10^3$
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)			

B

2, 3 & 4 CO relay interface modules, 27 mm wide with Screw terminals

Ideal interface for PLC and electronic systems

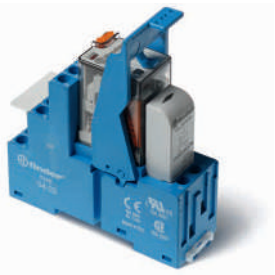
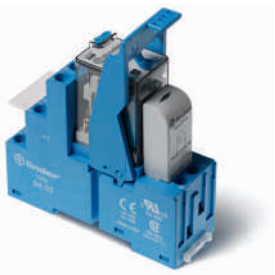
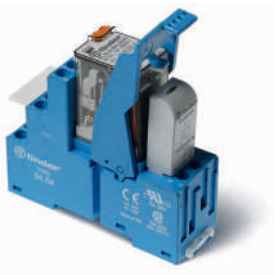
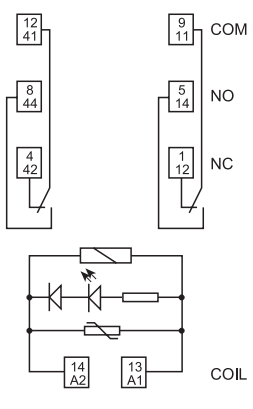
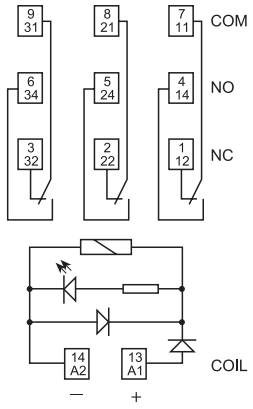
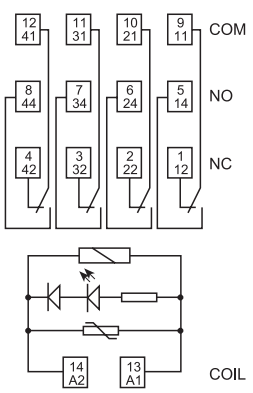
Type 58.32
- 2 CO 10 A
- Screw terminals

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

	58.32	58.33	58.34
			
	• 2 CO 10 A • Screw terminals	• 3 CO 10 A • Screw terminals	• 4 CO 7 A • Screw terminals
			
For outline drawing see page 7	Example: AC	Example: DC	Example: AC
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	$(0.8…1.1)U_N$	$(0.8…1.1)U_N$	$(0.8…1.1)U_N$
DC	$(0.8…1.1)U_N$	$(0.8…1.1)U_N$	$(0.8…1.1)U_N$
Holding voltage AC/DC	0.8 U_N / 0.5 U_N	0.8 U_N / 0.5 U_N	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 µs) kV	3.6	3.6	3.6
Dielectric strength between open contacts V AC	1000	1000	1000
Ambient temperature range °C	–40…+70	–40…+70	–40…+70
Protection category	IP 20	IP 20	IP 20
Approvals relay (according to type)	CE cULus VDE RINA		

2, 3 & 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 58.33 - x0xx
- 3 CO 9 A
- Screw terminals

Type 58.34 - x0xx
- 4 CO 6 A
- Screw terminals

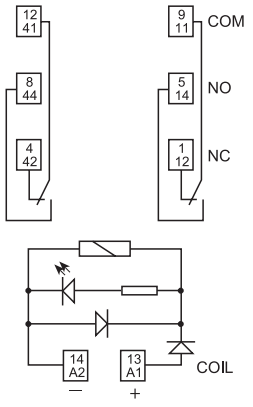
- AC coils or DC coils
- Supply status indication and EMC coil suppression module as standard
- Mechanical indicator - optional on 2 & 4 CO types
- Identification label
- Cadmium Free contacts
- UL Listed
- Complies with:
  - EN 60079-0:2012 and EN 60079-15:2010
  - 94/9/CE and 2014/34/UE
- 35 mm rail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

58.32 / 58.33 / 58.34 - x0xx
Screw terminals

For outline drawing see page 7

NEW **58.32 - x0xx**

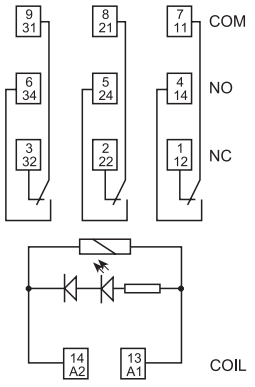
- 2 CO 10 A
- Screw terminals
- ATEX compliant



Example: DC

NEW **58.33 - x0xx**

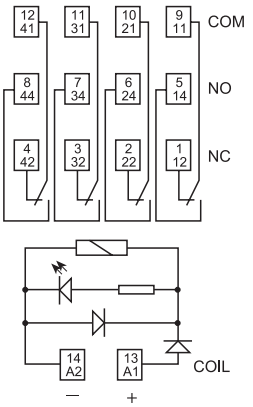
- 3 CO 9 A
- Screw terminals
- ATEX compliant



Example: AC

NEW **58.34 - x0xx**

- 4 CO 6 A
- Screw terminals
- ATEX compliant



Example: DC

Contact specification				
Contact configuration		2 CO (DPDT)	3 CO (3PDT)	4 CO (4PDT)
Rated current/Maximum peak current	A	10/20	9/20	6/15
Rated voltage/ Maximum switching voltage	V AC	250/400	250/400	250/250
Rated load AC1	VA	2500	2250	1500
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	9/0.25/0.12	6/0.25/0.12
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…1.1)U_N	(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	(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	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	$150 \cdot 10^3$	$150 \cdot 10^3$	$150 \cdot 10^3$
Operate/release time	ms	11/3 (AC) - 11/15 (DC)	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	3.6
Dielectric strength between open contacts	V AC	1000	1000	1000
Ambient temperature range	°C	–40…+70	–40…+70	–40…+70
Protection category		IP 20	IP 20	IP 20
Approvals relay (according to type)				

B

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.

										A	B	C	D		
5	8	.	P	4	.	9	.	0	2	4	.	0	0	5	0

Series

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)

D: Special versions
0 = Standard

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

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

										A	B	C	D		
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
3 = 3 pole, 9 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)

D: Special versions
8 = ATEX compliant (Ex nA nC) without mechanical indicator
9 = ATEX compliant (Ex nA nC) with mechanical indicator (2 & 4 CO only)

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

X-2016, www.findernet.com

B

Technical data

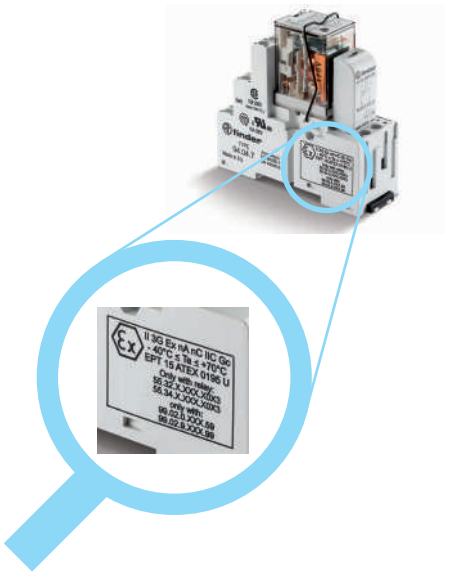
Insulation						
Insulation according to EN 61810-1	insulation rated voltage	V	400 (2-3 pole)		250 (4 pole)	
	rated impulse withstand voltage	kV	3.6 (2-3 pole)		2.5 (4 pole)	
	pollution degree		2		2	
	overvoltage category		III		II	
Insulation between coil and contacts (1.2/50 µs)		kV	3.6			
Dielectric 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			EN 61000-4-4		level 4 (4 kV)	
Surge (1.2/50 µs) on A1 - A2 (differential mode)			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		8	
Screw torque		Nm	0.5		—	
Max. wire size			solid cable	stranded cable	solid cable	stranded cable
		mm²	1 x 6 / 2 x 2.5	1 x 4 / 2 x 2.5	2 x (0.5…1.5)	2 x (0.5…1.5)
		AWG	1 x 10 / 2 x 14	1 x 12 / 2 x 14	2 x (21…14)	2 x (21…14)

Other data ATEX versions

Max current @ 70 °C		Single piece mount	> 1 piece mount
Type 58.32	A	10	7
Type 58.33	A	9	6
Type 58.34	A	6	5
Terminal			
Wire strip length	mm	8	
Screw torque	Nm	0.5	
Wire size		solid cable	stranded cable
	mm²	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

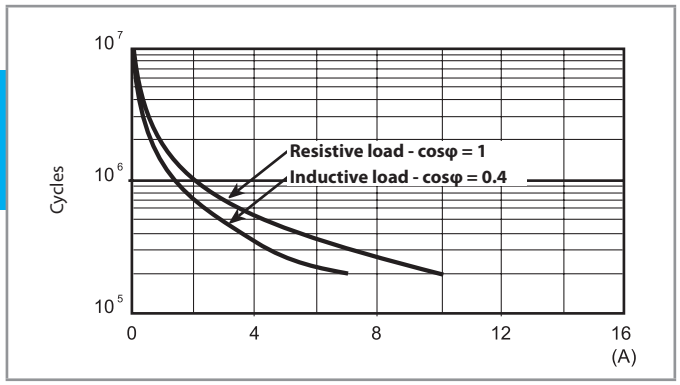
MARKING	
Ex Specific marking of explosion protection	
II Component for surface plant (different from mines)	
3 Category 3: normal level of protection	
GAS	**G** Explosive atmosphere due to presence of combustible gas vapour or mist
	Ex nA Non-sparking equipment
	Ex nC Sealed device (type of protection 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	



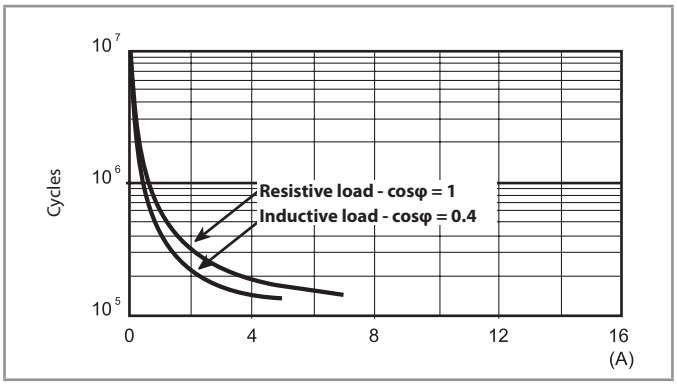
B

Contact specification

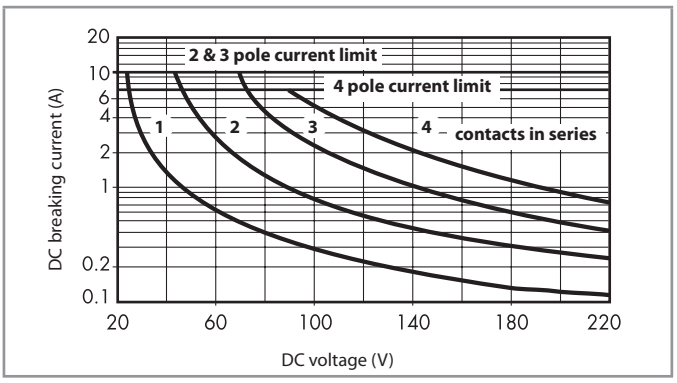
F 58 - Electrical life (AC) v contact current
2 & 3 pole relays



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 ≥ 100 · 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

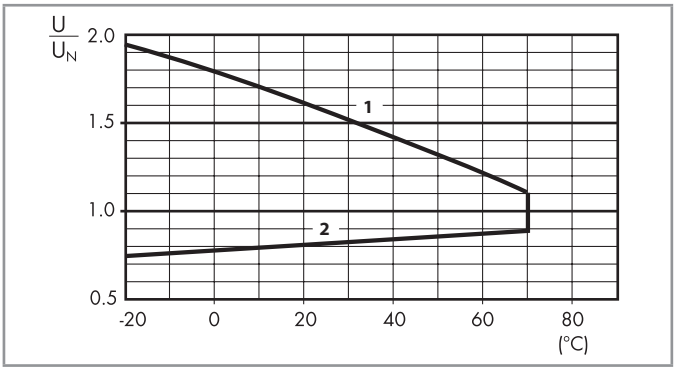
DC coil data

Nominal voltage	Coil code	Operating range		Resistance	Rated coil absorption
U_N		U_{min}	U_{max}	R	I at U_N
V		V	V	Ω	mA
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

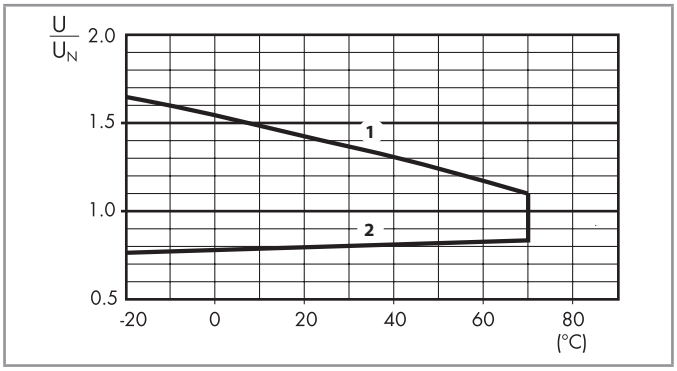
Nominal voltage	Coil code	Operating range		Resistance	Rated coil absorption
U_N		U_{min}	U_{max}	R	I at U_N (50 Hz)
V		V	V	Ω	mA
12	**8**.012	9.6	13.2	50	97
24	**8**.024	19.2	26.4	190	53
48	**8**.048	38.4	52.8	770	25
110	**8**.110	88	121	4000	12.5
120	**8**.120	96	132	4700	12
230	**8**.230	184	253	17000	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.

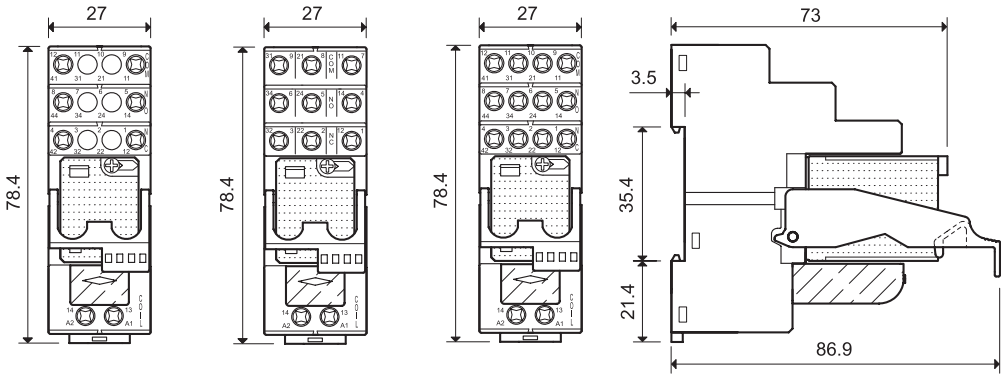
Combinations

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

B

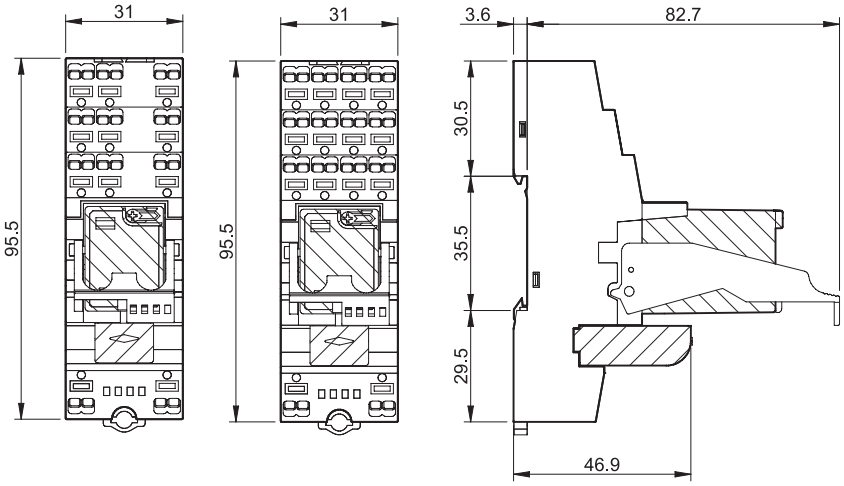
Outline drawing



58.32
Screw terminals

58.33
Screw terminals

58.34
Screw terminals



58.P3
Push-in terminal

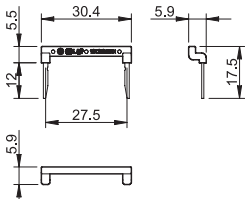
58.P4
Push-in terminal

B

Accessories

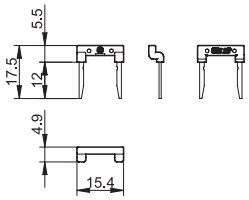
094.52.1

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



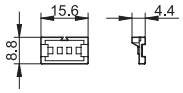
097.52

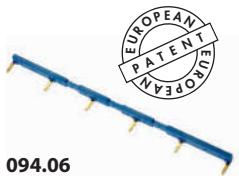
2-way jumper link for type 58.P3 and 58.P4	097.52
Rated values	10 A - 250 V



097.00

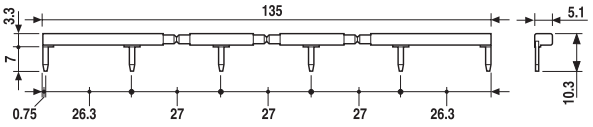
Marker tag holder for type 58.P3, 58.P4, 58.32, 58.33 and 58.34	097.00

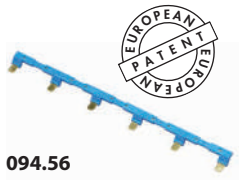




094.06

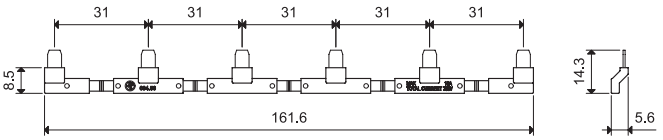
6-way jumper link for type 58.32, 58.33, 58.34	094.06 (blue)	094.06.0 (black)
Rated values	10 A - 250 V	

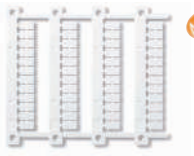




094.56

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





060.48

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

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