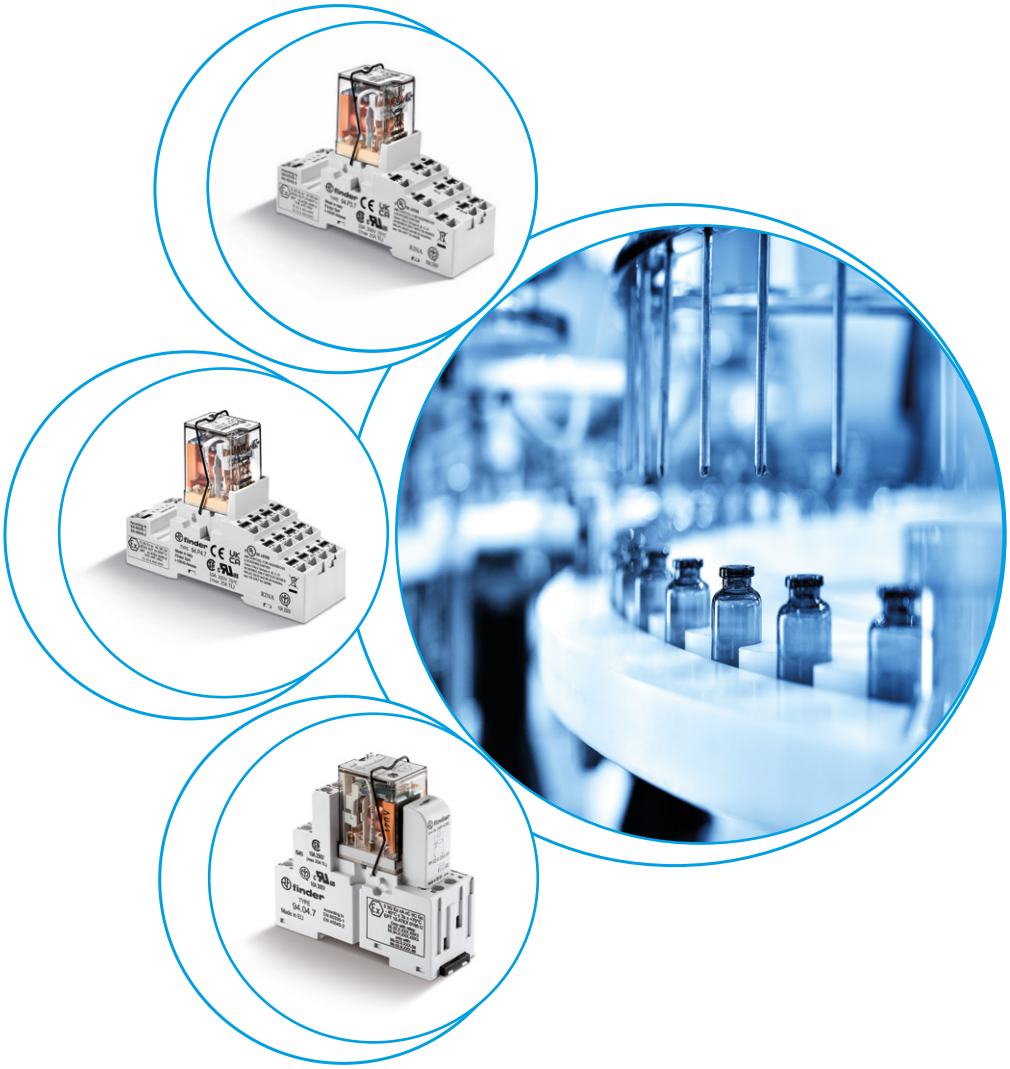
finder
RELAYING INNOVATION

58
SERIES

Relay interface modules 6 - 8.5 - 10 A IECEx - ATEX - HazLoc



Prices, features, specifications, capabilities, appearance and availability of our products and services are subject to change without notice.
FINDER assumes no responsibility for the presence of possible errors or insufficient information in this document.
In case of discrepancies between the printed and online versions, the latter prevails.

2, 3 or 4 CO relay interface modules IECEx, 31 mm wide with Push-in terminals
IECEx - ATEX certification: II 3G Ex ec nC IIC Gc
HazLoc certification: Class I Div. 2
Groups A, B, C, D - T5*

Type 58.P2 - x00x
- 2 CO 10 A
- Push-in terminals sockets

Type 58.P3 - x00x
- 3 CO 8.5 A
- Push-in terminals sockets

Type 58.P4 - x00x
- 4 CO 6 A
- Push-in terminals sockets

- AC coils or DC coils
- Mechanical indicator - optional on 2 & 4 CO types
- Identification label
- Cadmium Free contacts
- Complies with:
  EN IEC 60079-0:2018;
  EN IEC 60079-7:2015+A1:2018;
  EN 60079-15:2010;
  EN IEC 60079-15:2019
- 35 mm rail (EN 60715) mounting

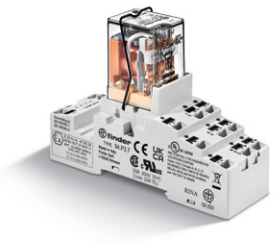
58.P3/58.P4
Push-in terminals



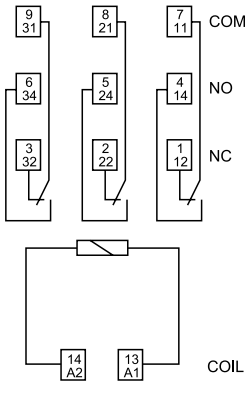
* Characteristics page 6, 7

For outline drawing see page 9

58.P3



- 3 CO 8.5 A
- IECEx, ATEX, Hazardous Location compliant
- Push-in terminals

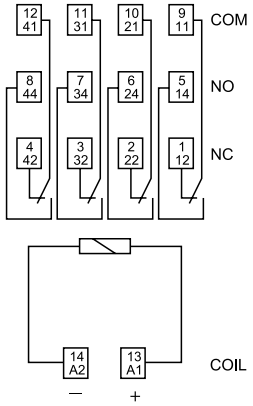


Example: AC

58.P4



- 4 CO 6 A
- IECEx, ATEX, Hazardous Location compliant
- Push-in terminals



Example: DC

Contact specification			
Contact configuration		3 CO (3PDT)	4 CO (4PDT)
Rated current/Maximum peak current	A	8.5/20	6/15
Rated voltage/ Maximum switching voltage	V AC	250/400	250/250
Rated load AC1	VA	2125	1500
Rated load AC15 (230 V AC)	VA	500	350
Single phase motor rating (230 V AC)	kW	0.55	0.24
Breaking capacity DC1: 24/110/220 V	A	8.5/0.5/0.25	6/0.5/0.25
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 (according to type)		CE Ex IECEx HazLoc	

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58 SERIES
Relay interface modules 10 - 8.5 - 6 A - IECEx - ATEX - HazLoc

2, 3 or 4 CO relay interface modules IECEx, 27 mm wide with Box clamp

IECEx - ATEX certification: II 3G Ex ec nC IIC Gc
HazLoc certification: Class I Div. 2
Groups A, B, C, D - T5*

Type 58.32 - x0xx
- 2 CO 10 A
- Box clamp

Type 58.33 - x0xx
- 3 CO 8.5 A
- Box clamp

Type 58.34 - x0xx
- 4 CO 6 A
- Box clamp

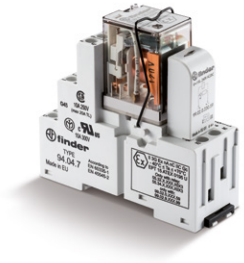
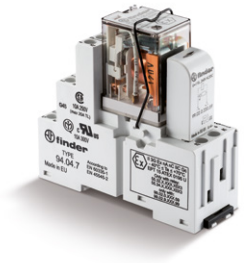
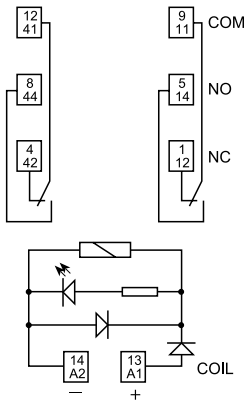
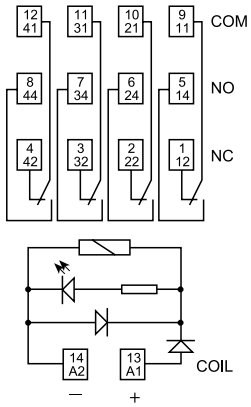
- AC coils or DC coils
- Supply status indication and EMC coil suppression module as standard
- Mechanical indicator - optional on 2 & 4 CO types
- Identification label
- Cadmium Free contacts
- Complies with:
  EN IEC 60079-0:2018;
  EN IEC 60079-7:2015+A1:2018;
  EN 60079-15:2010;
  EN IEC 60079-15:2019
- 35 mm rail (EN 60715) mounting

58.32/58.34 - x0xx
Box clamp



* Characteristics page 6, 7

For outline drawing see page 9

		58.32 - x0xx	58.34 - x0xx
			
		• 2 CO 10 A • Box clamp • IECEx, ATEX, Hazardous Location compliant	• 4 CO 6 A • Box clamp • IECEx, ATEX, Hazardous Location compliant
			
		Example: DC	Example: DC
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	0.55	0.24
Breaking capacity DC1: 24/110/220 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	$20 \cdot 10^6$ / $50 \cdot 10^6$	$20 \cdot 10^6$ / $50 \cdot 10^6$
Electrical life at rated load AC1	cycles	$150 \cdot 10^3$	$150 \cdot 10^3$
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 (according to type)			

** See page 6 for details of rated current and ambient temperature approval characteristic

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Ordering information IECEx, ATEX and Hazardous Location versions

Example: 58 series, 35 mm rail (EN 60715), Box clamp terminal interface module, 4 CO, 120 V AC, green LED, mechanical indicator, ATEX and HazLoc Version.

								A		B	C	D	
5	8	.	3	4	.	8	.	1	2	0	.	0	0	4	9

Series

Type
3 = Box clamp
35 mm rail (EN 60715) mounting
P = Push-in terminals
35 mm rail (EN 60715) mounting

No. of poles
2 = 2 pole, 10 A
3 = 3 pole, 8.5 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
5 = AgNi + Au

B: Contact circuit
0 = CO (nPDT)

D: Special versions
8 = IECEx, ATEX (Ex ec nC) and HazLoc Class I Div. 2 compliant without mechanical indicator
9 = IECEx, ATEX (Ex ec nC) and HazLoc Class I Div. 2 compliant with mechanical indicator (only for 58.x2 and 58.x4)

C: Options (Not for 58.Px version)
0 = Without module (only for 58.Px)
4 = Module 99 LED (AC/DC)
5 = Module 99 LED + Diode (DC)
6 = Module 99 LED + Varistor (AC/DC)
8 = Timer 86.30 (12 - 24 V AC/DC)

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

Type	Coil version	A	B	C	D
58.3x	AC/DC	0 - 5	0	4 - 5 - 6 - 8	8 - 9
58.33	AC/DC	0 - 5	0	4 - 5 - 6 - 8	8
58.Px	AC/DC	0 - 5	0	0	8 - 9
58.P3	AC/DC	0 - 5	0	0	8

Technical data

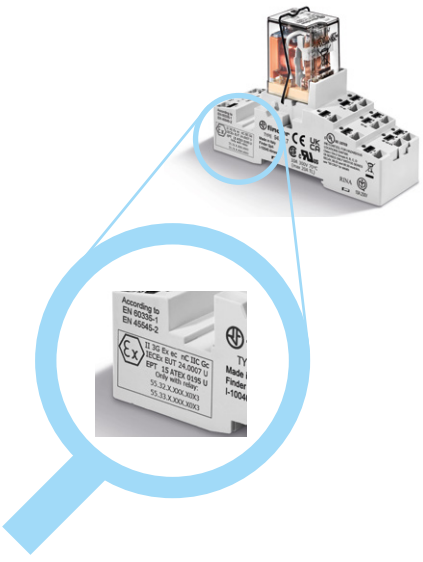
Insulation						
Insulation according to EN 61810-1	insulation rated voltage	V	400 (2-3 pole)		250 (4 pole)	
	rated impulse withstand voltage	kV	3.6 (2-3 pole)		2.5 (4 pole)	
	pollution degree		2		2	
	overvoltage category		III		II	
Insulation between coil and contacts (1.2/50 µs)		kV	3.6			
Dielectric strength between open contacts		V AC	1000			
Dielectric strength between adjacent contacts		V AC	2000 (58.32, 58.P3)		1550 (58.34, 58.P4)	
Insulation between coil terminals						
Rated impulse voltage (according to EN 61180)		kV (1.2/50 µs)	4			
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)	
			58.32/33/34 (Box clamp)		**58.P2/P3/P4 (Push-in terminals)**	
Wire strip length		mm	8		8	
Screw torque		Nm	0.5		—	
Min. wire size			solid cable	stranded cable	solid cable	stranded cable
		mm^2	0.5	0.5	0.5	0.5
		AWG	21	21	21	21
Max. wire size			solid cable	stranded cable	solid cable	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	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	2 x 16 / 1 x 14

IECEx, ATEX and HazLoc - Electrical characteristics

Max current @ 70 °C (max temperature IECEx, ATEX applications)		Single piece mount	> 1 piece mount of 5 interfaces
Type 58.x2	A	10	7
Type 58.x3	A	8.5	6
Type 58.x4	A	6	4
Max current @ 40 °C (max temperature Hazloc applications)		Single piece mount	> 1 piece mount of 5 interfaces
Type 58.x2	A	9	9
Type 58.x3	A	7	7
Type 58.x4	A	5	5
Terminals			
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	1 x 2.5 / 2 x 1.5
	AWG	1 x 12 / 2 x 16	1 x 12 / 2 x 16

Markings - IECEx, ATEX versions - II 3G Ex ec 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 ec Increased Safety
	Ex nC Sealed device (type of protection for category 3G)
	IIC Gas group
	Gc Equipment Protection Level



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Markings - Hazardous Location Class I Div. 2 Goups A, B, C, D - T5 and other data

HazLoc Class I Div. 2 Group A, B, C, D - T5		Meaning
Class I		Areas in which flammable gases and vapours may be present
Div. 2		Low probability to find ignitable hazardous concentration because it is typically present in closed system from which can escape through breakdown or accidental rupture
Group A, B, C, D		Kind of combustible, flammable gases and vapours can be in the atmosphere
Permissible Surface temperature		
T5	100 °C	212 °F

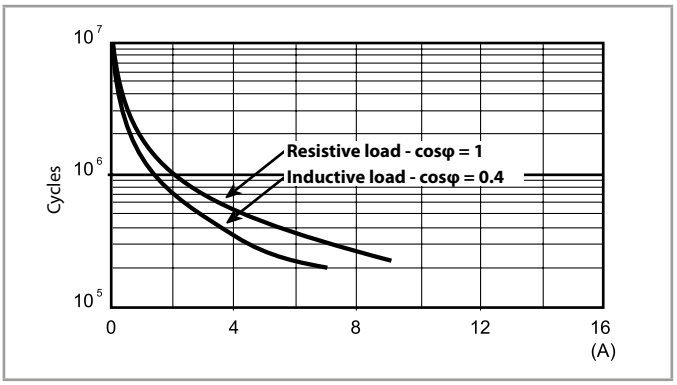
IECEx, ATEX and HazLoc - Electrical characteristics and ambient temperature of work

Interface Code	IECEx-ATEX current [A] rating –40…+70 °C (Service Temperature 115°C)		HazLoc current [A] rating –25…+40 °C group mounting	
	Single mounting	Group mounting	24 V DC	230 V AC
58.32.x.xxx	10	7	9	9
58.33.x.xxx	8.5	6	5	7
58.34.x.xxx	6	4	5	5
58.P2.x.xxx	10	7	9	9
58.P3.x.xxx	8.5	6	5	7
58.P4.x.xxx	6	4	5	5

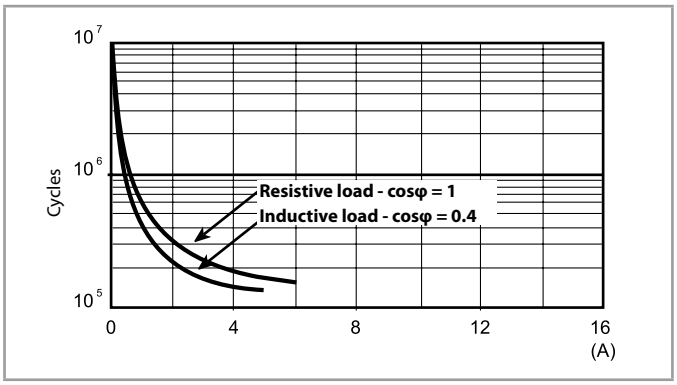
If used with 86 modular timer, the ambient temperature range is –20…+50 °C

Contact specification

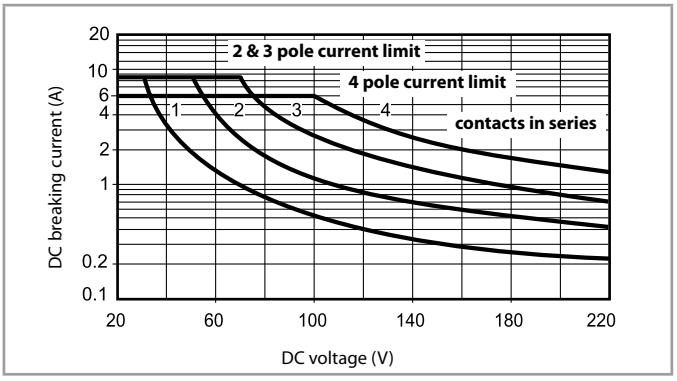
F 58 - Electrical life (AC) v contact current
3 pole relays



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

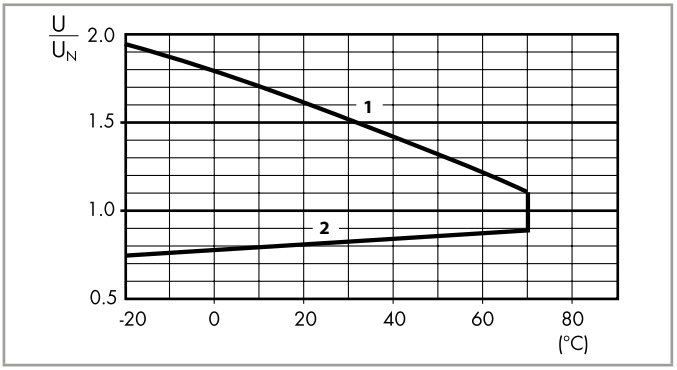
DC coil data

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

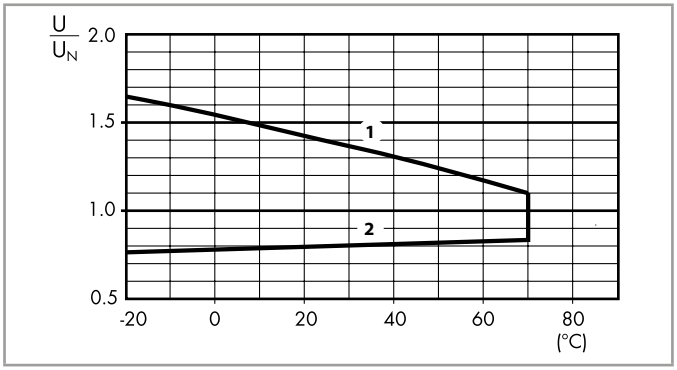
Nominal voltage	Coil code	Operating range		Resistance	Rated coil absorption
U_N		U_{min}	U_{max}	R	I at U_N (50 Hz)
V		V	V	Ω	mA
12	**8**.012	9.6	13.2	50	97
24	**8**.024	19.2	26.4	190	53
48	**8**.048	38.4	52.8	770	25
110	**8**.110	88	121	4000	12.5
120	**8**.120	96	132	4700	12
230	**8**.230	184	253	17000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

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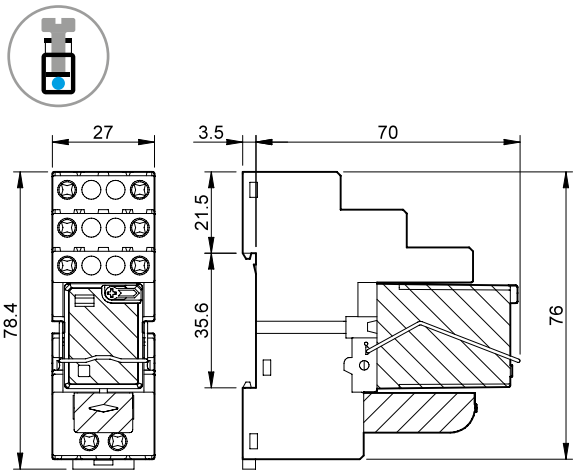
Combinations

Certain relay/socket combinations

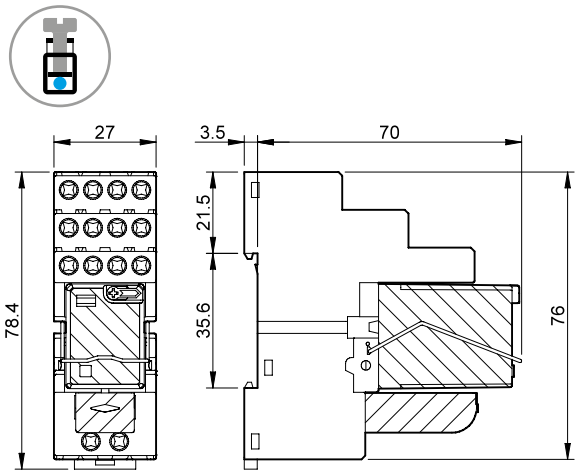
Code	Type of socket	Type of relay	Module	Retaining clip
58.P2	94.P3.7	55.32	—	094.71
58.P3	94.P3.7	55.33	—	094.71
58.P4	94.P4.7	55.34	—	094.71
58.32	94.02.7	55.32	99.02	094.71
58.33	94.03.7	55.33	99.02	094.71
58.34	94.04.7	55.34	99.02	094.71

Outline drawings

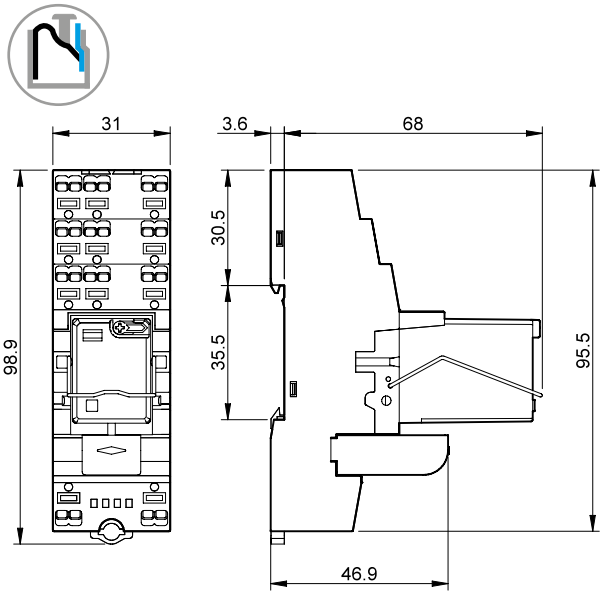
Type 58.32
Box clamp



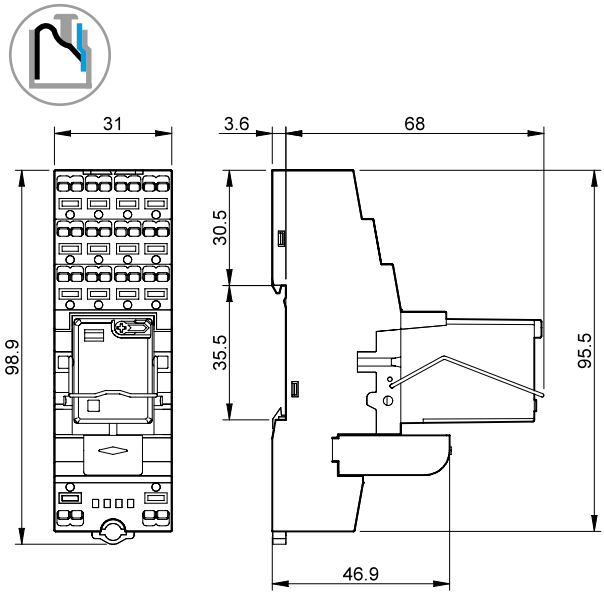
Type 58.34
Box clamp



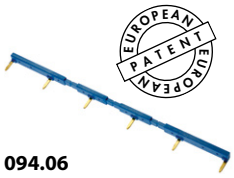
Type 58.P3
Push-in terminals



Type 58.P4
Push-in terminals

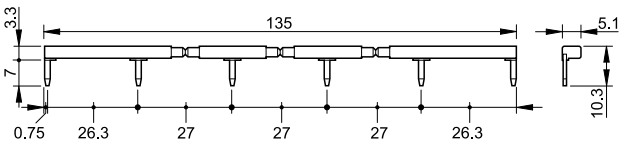


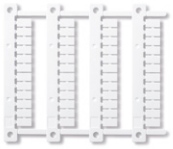
Accessories



094.06

6-way jumper link for type 58.32, 58.34	094.06 (blue)	094.06.0 (black)
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	0	8	S	M	A

A Standard packaging
B Blister packaging

SM Metallic retaining clip

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