3 & 4 Pole relay interface modules, 31 mm wide.

Ideal interface for PLC and electronic systems

58.33 - 3 Pole 10 A (Push-in terminals)
58.34 - 4 Pole   7 A (Push-in terminals)

- AC coils and DC coils
- Supply status indication and 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 pole, 10 A
- Push-in terminals
- 35 mm rail (EN 60715) mounting
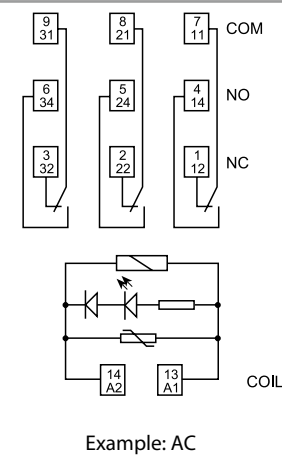
NEW 58.P4

- 4 pole, 7 A
- Push-in terminals
- 35 mm rail (EN 60715) mounting

Example: AC

Example: DC

For outline drawing see page 7

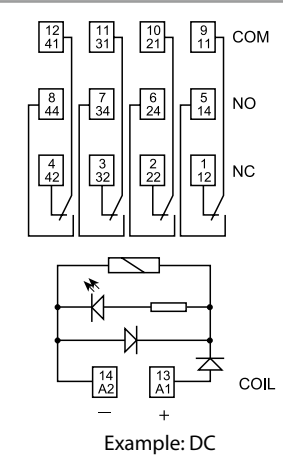| Contact specification		58.P3	58.P4
Contact configuration		3 CO (3PDT)	4 CO (4PDT)
Rated current/Maximum peak current	A	10/20	7/15
Rated voltage/ Maximum switching voltage	V AC	250/400	250/250
Rated load AC1	VA	2500	1750
Rated load AC15 (230 V AC)	VA	500	350
Single phase motor rating (230 V AC)	kW	0.37	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)			

CE ⊕ EAC РС ⊕ Lloyd's Register RINA cULus D'E

Ordering information

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

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

B

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

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)		1550 (58.34, 58.54)
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)

Contact specification

B

F 58 - Electrical life (AC) v contact current
2 & 3 pole relays
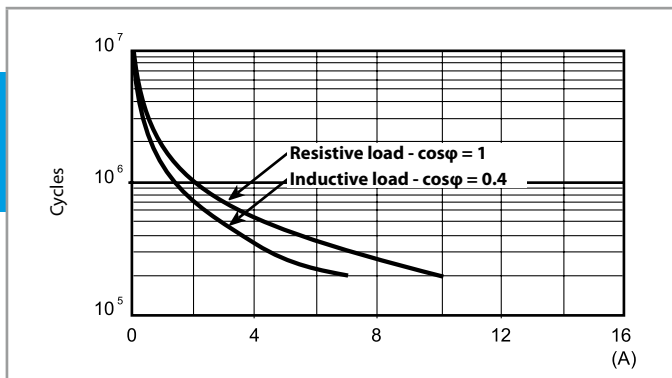
F 58 - Electrical life (AC) v contact current
4 pole relay
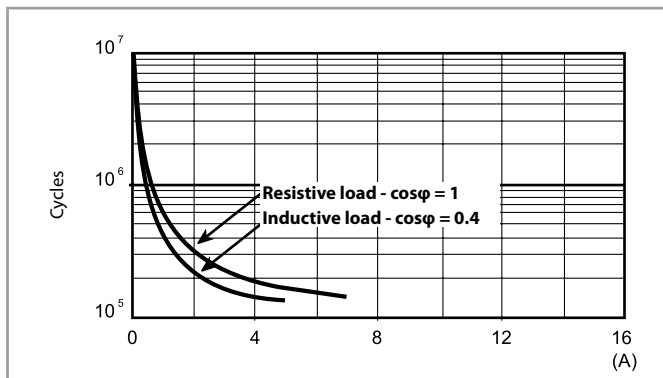
H 58 - Maximum DC1 breaking capacity
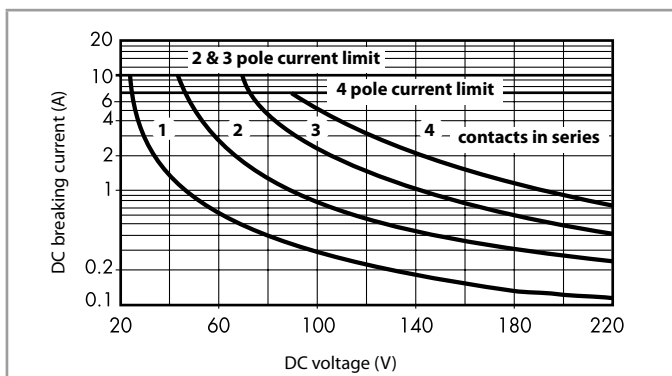
- When switching a resistive load (DC1) having voltage and current values under the curve, an electrical life of $\geq 100 \cdot 10^3$ can be expected.
- In the case of DC13 loads, the connection of a diode in parallel with the load will permit a similar electrical life as for a DC1 load.
 Note: the release time for the load will be increased.

Coil specifications

DC coil data

Nominal voltage U_N	Coil code	Operating range		Resistance R	Rated coil absorption I at U_N
		U_{min}	U_{max}		
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 U_N	Coil code	Operating range		Resistance R	Rated coil absorption I at U_N (50 Hz)
		U_{min}	U_{max}		
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
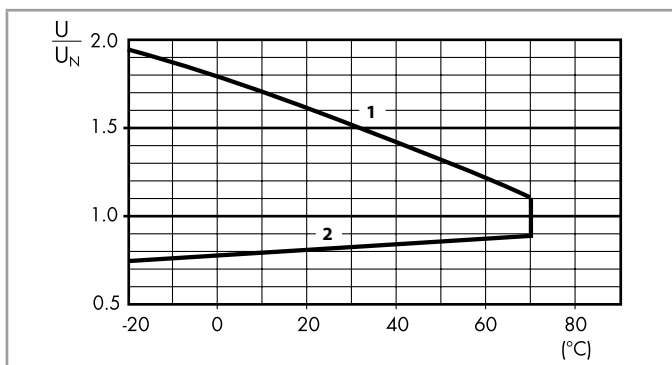
R 58 - AC coil operating range v ambient temperature
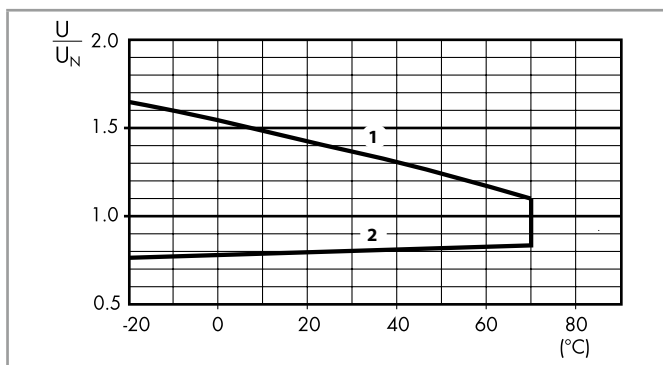
1 - Max. permitted coil voltage.
2 - Min. pick-up voltage with coil at ambient temperature.

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

Combinations

⊂(UL)ᴜₛ Certain relay/socket combinations

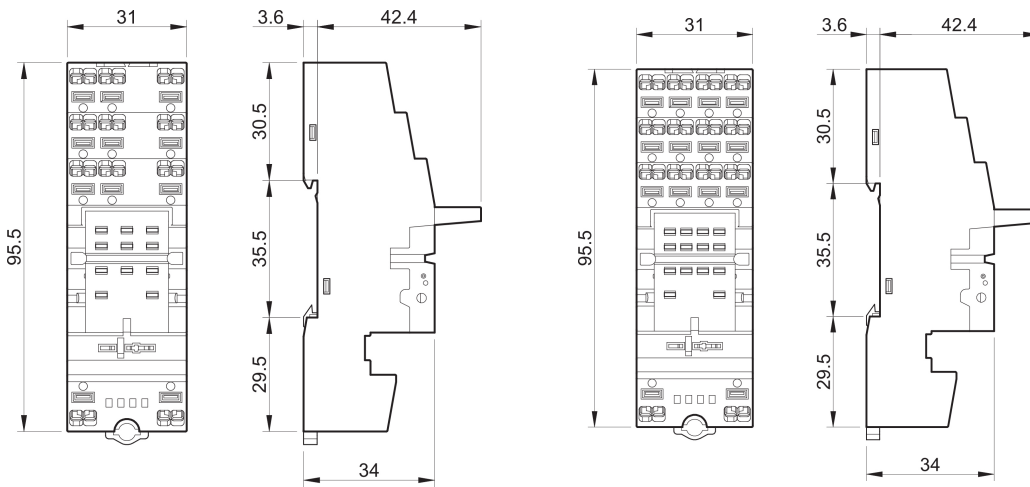| Code	Type of socket	Type of relay	Module	Retaining clip
58.P3	94.P3	55.33	99.02	094.91.3
58.P4	94.P4	55.34	99.02	094.91.3
58.32	94.02	55.32	99.02	094.91.3
58.33	94.03	55.33	99.02	094.91.3
58.34	94.04	55.34	99.02	094.91.3

Outline drawing
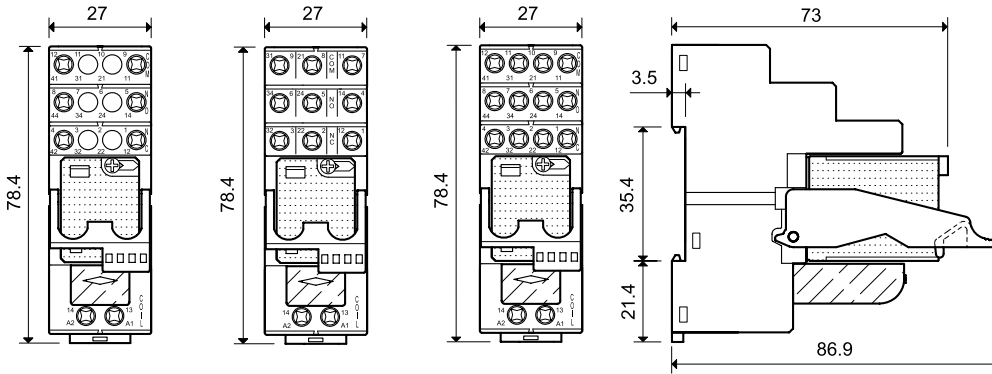
58.32
Screw terminals

58.33
Screw terminals

58.34
Screw terminals

58.P3
Push-in terminal

58.P4
Push-in terminal