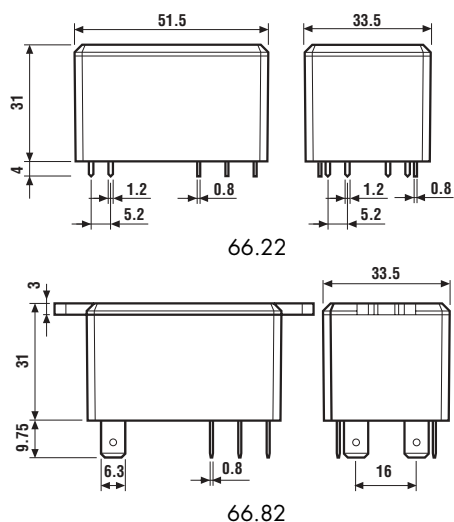
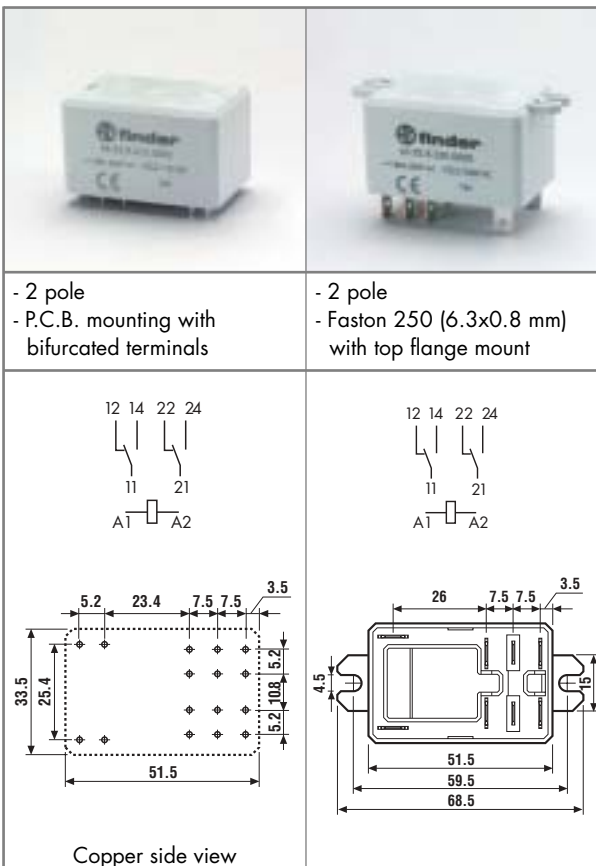


- P.C.B. or top flange mount with Faston 250
- AC or DC coil versions
- Double insulation between coil and contacts according to EN 60335-1 (VDE 0700), with safe separation and 8 mm clearance and creepage distance



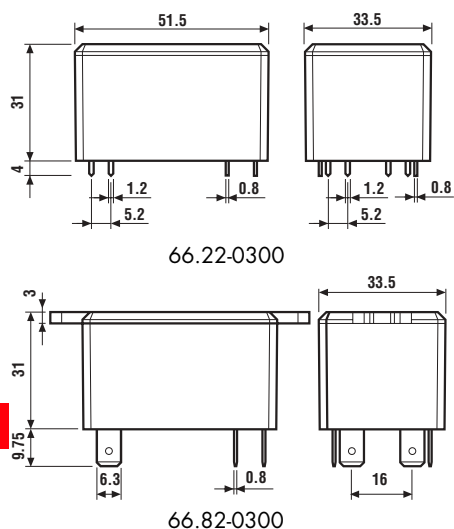
66.22

66.82



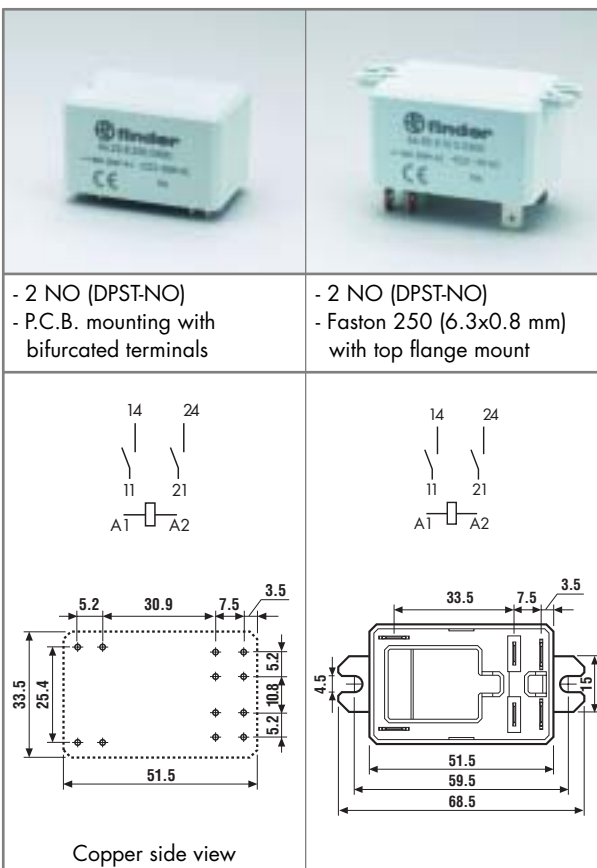
Contact specifications		66.22	66.82
Contact configuration		2 CO (DPDT)	2 CO (DPDT)
Rated current/Maximum peak current	A	30/50 (NO) - 10/20 (NC)	30/50 (NO) - 10/20 (NC)
Rated voltage/Maximum switching voltage V AC		250/440	250/440
Rated load in AC1	VA	7,500 (NO) - 2,500 (NC)	7,500 (NO) - 2,500 (NC)
Rated load in AC15 (230 V AC)	VA	1,200 (NO)	1,200 (NO)
Single phase motor rating (230 V AC)	kW	1.5 (NO)	1.5 (NO)
Breaking capacity in DC1: 30/110/220 V	A	25/0.7/0.3 (NO)	25/0.7/0.3 (NO)
Minimum switching load	mW (V/mA)	1,000 (10/10)	1,000 (10/10)
Standard contact material		AgCdO	AgCdO
Coil specifications		66.22	66.82
Nominal voltage (U _N)	V AC (50/60 Hz)	6 - 12 - 24 - 110/115 - 120/125 - 230 - 240	
	V DC	6 - 12 - 24 - 110 - 125	
Rated power AC/DC	VA (50 Hz)/W	3.6/1.7	3.6/1.7
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		66.22	66.82
Mechanical life AC/DC	cycles	10 · 10 ⁶	10 · 10 ⁶
Electrical life at rated load AC1	cycles	100 · 10 ³	100 · 10 ³
Operate/release time	ms	8/15	8/15
Insulation according to EN 61810-1 ed. 2		6 - 4 kV/3	6 - 4 kV/3
Insulation between coil and contacts (1.2/50 μs)	kV	6 (8 mm)	6 (8 mm)
Dielectric strength between open contacts	V AC	1,500	1,500
Ambient temperature range	°C	-40...+70	-40...+70
Environmental protection		RT II	RT II
Approvals (according to type):		CE	

- P.C.B. or top flange mount with Faston 250
- AC or DC coil versions
- Double insulation between coil and contacts according to EN 60335-1 (VDE 0700), with safe separation and 8 mm clearance and creepage distance



66.22-0300

66.82-0300



Contact specifications		66.22-0300	66.82-0300
Contact configuration		2 NO (DPST-NO)	2 NO (DPST-NO)
Rated current/Maximum peak current	A	30/50	30/50
Rated voltage/Maximum switching voltage V AC		250/440	250/440
Rated load in AC1	VA	7,500	7,500
Rated load in AC15 (230 V AC)	VA	1,200	1,200
Single phase motor rating (230 V AC)	kW	1.5	1.5
Breaking capacity in DC1: 30/110/220 V A		25/0.7/0.3	25/0.7/0.3
Minimum switching load	mW (V/mA)	1,000 (10/10)	1,000 (10/10)
Standard contact material		AgCdO	AgCdO
Coil specifications		66.22-0300	66.82-0300
Nominal voltage (U _N)	V AC (50/60 Hz)	6 - 12 - 24 - 110/115 - 120/125 - 230 - 240	
	V DC	6 - 12 - 24 - 110 - 125	
Rated power AC/DC	VA (50 Hz)/W	3.6/1.7	3.6/1.7
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		66.22-0300	66.82-0300
Mechanical life AC/DC	cycles	10 · 10 ⁶	10 · 10 ⁶
Electrical life at rated load AC1	cycles	100 · 10 ³	100 · 10 ³
Operate/release time	ms	8/10	8/10
Insulation according to EN 61810-1 ed. 2		6 - 4 kV/3	6 - 4 kV/3
Insulation between coil and contacts (1.2/50 μs)	kV	6 (8 mm)	6 (8 mm)
Dielectric strength between open contacts	V AC	1,500	1,500
Ambient temperature range	°C	-40...+70	-40...+70
Environmental protection		RT II	RT II
Approvals (according to type):		CE	

ORDERING INFORMATION

Example: a 66 series relay, Faston 250 (6.3x0.8mm) with top flange mount, 2 CO (DPDT) contacts 30 A, with a 24 V DC coil.

6 6 . 8 2 . 9 . 0 2 4 . 0 0 0 0

Series

Type

2 = P.C.B.

8 = Faston 250 (6.3x0.8 mm)
with top flange mount

No. of poles

2 = 2 CO (DPDT) 30 A

Coil version

8 = AC (50/60 Hz)

9 = DC

Coil voltage

see coil specifications

A: Contact material

0 = Standard AgCdO

B: Contact circuit

0 = CO (nPDT)

3 = NO (nPST)

D: Special versions

0 = Standard

1 = Wash tight (RT III)

7 = Top 35 mm rail (EN 50022) mount

C: Options

0 = None

Only combinations in the same row are possible

Preferred versions

	coil version	A	B	C	D
62.22	AC-DC	0	0	0	1
62.82	AC-DC	0	0	0	0

All versions

	coil version	A	B	C	D
62.22	AC-DC	0	0 - 3	0	1
62.82	AC-DC	0	0 - 3	0	0 - 7

66

TECHNICAL DATA

INSULATION

Insulation according to EN 61810-1 ed. 2	insulation rated voltage	V	440
	rated impulse withstand voltage	kV	4
	pollution degree		3
	overvoltage category		III
Dielectric strength between adjacent contacts	V AC	2,500	

CONDUCTED DISTURBANCE IMMUNITY

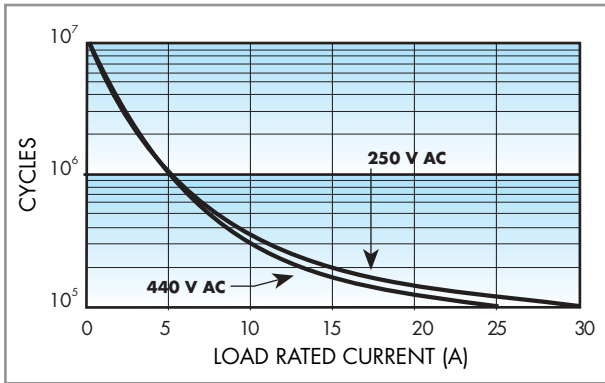
Burst (5...50)ns, 5 kHz, on A1 - A2	EN 61000-4-4	level 4 (4 kV)
Surge (1.2/50 µs) on A1 - A2 (differential mode)	EN 61000-4-5	level 4 (4 kV)

OTHER DATA

Bounce time: NO/NC		ms	7/10
Power lost to the environment	without contact current	W	2.3
	with rated current	W	5
Recommended distance between relays mounted on P.C.B.s		mm	20

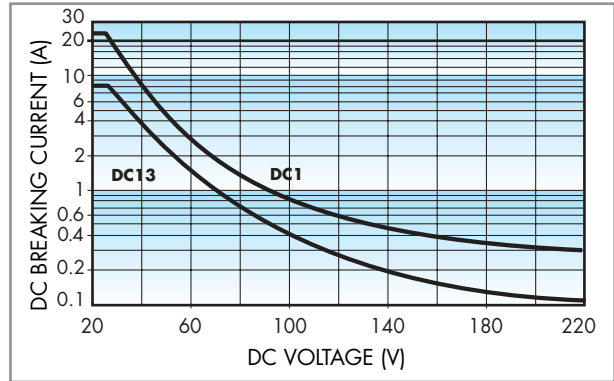
CONTACT SPECIFICATIONS

F 66



Electrical life vs AC1 load.

H 66



Breaking capacity for DC1 load and DC13 (L/R=100ms).

- When switching a resistive load (DC1) having voltage and current values under the curve the expected electrical life is $\geq 100 \cdot 10^3$ cycles.
- In case of DC13 loads the connection of a diode in parallel with the load will permit the same electrical life as for a DC1 load.

Note: the release time of load will be increase.

66

COIL SPECIFICATIONS

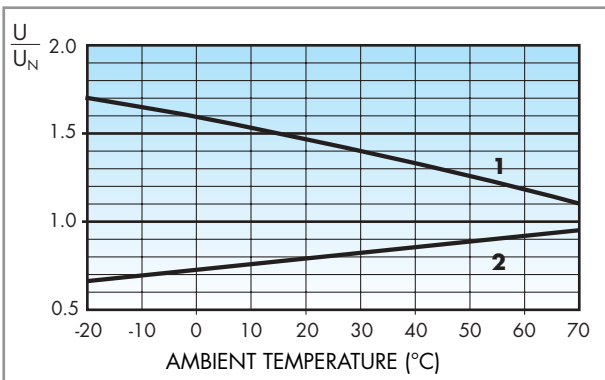
DC VERSION DATA

Nominal voltage U_N	Coil code	Operating range		Resistance	Rated coil consumption
V		U_{min} V	U_{max} V	R Ω	I at U_N mA
6	9.006	4.8	6.6	21	283
12	9.012	9.6	13.2	85	141
24	9.024	19.2	26.4	340	70.5
110	9.110	88	121	7,000	15.7
125	9.125	100	137.5	9,200	13.6

AC VERSION DATA

Nominal voltage U_N	Coil code	Operating range		Resistance	Rated coil consumption
V		U_{min} V	U_{max} V	R Ω	I at U_N (50Hz) mA
6	8.006	4.8	6.6	3	600
12	8.012	9.6	13.2	11	300
24	8.024	19.2	26.4	50	150
110/115	8.110	88	126	930	32.6
120/125	8.120	96	137	1,050	30
230	8.230	184	253	4,000	15.7
240	8.240	192	264	5,500	15

R 66 DC

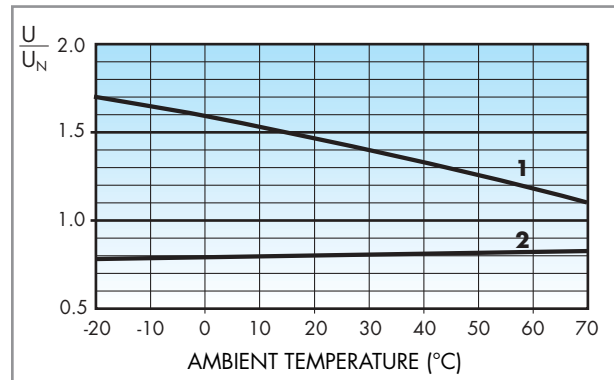


Operating range (DC type) vs ambient temperature.

1 - Max coil voltage permitted.

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

R 66 AC



Operating range (AC type) vs ambient temperature.

1 - Max coil voltage permitted.

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