

# **RE 3000 SERIES**

**USER SECTORS** 

















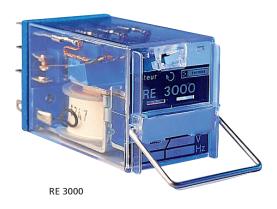












## PRODUCT ADVANTAGES \_

- EDF certification for 48 Vdc and 125 Vdc
- Complies with the HM-2A/03/111/A standard
- Numerous AC and DC power supply voltages
- · Breaking capacity suitable for inductive loads

### DESCRIPTION

RE 3000 relays have 4 x 10 A contacts, with high reliability for intensive use in harsh conditions. The relays in the RE 3000 Series are intended for all automation applications.

Designed to operate in a harsh climatic and electrical environment, as well as in zones with high seismic constraints.

Their production quality gives them a very long life expectancy.

The total transparency and polished finish of the cover leave the condition of the contacts constantly visible.

The RE 3000N benefits from more a stringent manufacturing process, notably in terms of the tests performed on cleaning and measurement of the contacts' resistances.

Models **Number of contacts** RE 3000 4

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# SEE THE "ORDERING SCHEME" TABLE

Coil specifications	RE 3000 RE 3000 S / RE 3000 N	
Nominal voltages Un (1)	DC: 12, 24, 30, 48, 60, 100, 110, 125, 200, AC: 12, 24, 48, 100/√3, 60, 110/√3, 110, 125, 220, 250 AC: 12, 24, 48, 100/√3, 380	
Max. consumption at Un (DC/AC)	< 3 W	
Operating range	80 to 110%	
Type of duty	Continuous	
Drop-out voltage (2)	<sup>(2)</sup> > 15% > 10%	

<sup>1.</sup> For the RE 3000 N, only nominal voltages 48 and 125 are available.

 $<sup>2. \</sup> Limit \ value \ for \ supply \ voltage, \ expressed \ as \ \% \ of the \ nominal \ value, beneath \ which \ the \ relay \ is \ certain \ to \ be \ de-energized.$ 

Contact specifications	RE 3000 - RE 30	00 S - RE 3000 N
Number and type	4 CO, I	Form C
Current Nominal (1) Maximum pulse (30 ms) (2)		A or 30 ms
Minimum load Standard contacts Gold-plated contact		
Maximum breaking voltage	250	Vdc
Contact material	Sil	ver
Contact closure pressure	≥ 0.	2 N
Contact opening pressure	≥ 0.	2 N
Contact closure time	DC	≤ 45 ms
Contact closure time	AC	≤ 30 ms
Contact anoning time	DC	≤ 25 ms
Contact opening time	AC	≤ 65 ms

Insulation	
Insulation resistance (at 500 Vdc) between the independent circuits and the ground between open contact parts	> 1,000 M $\Omega$ > 1,000 M $\Omega$
Withstand voltage at industrial frequency between the independent circuits and the ground between open contact parts	2 kV (1 min) 1 kV (1 min)
Impulse withstand voltage (1.2/50 µs - 0.5 J)  between the independent circuits and the ground  between open contact parts	5 kV 5 kV

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ŀ	Mechanical specifications		
	Mecha	nical life expectancy	20x10 <sup>6</sup> operations
	Maximum switching rate	Mechanical	3, 600 operations / hour
	Degree of protection (with relay mounted)		IP20
		Dimensions (mm)	45x40x103 <sup>(1)</sup>
		Weight (g)	200

<sup>1.</sup> Excluding the output terminals

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Environmental specifications		
Operating temperature	Standard	-10 ÷ +55°C
Storage and shipping temperatu	ıre	-25 ÷ +70°C
Relative humidity		Standard: 65%

# Standards and reference values Resistance to vibrations (as per EN 61810) EDF specifications EDF specifications EDF application certification

# EDF certification (K3/SEPTEN)



### **Ordering scheme**

Coded products			
RE 3000		RE 3000	
12 Vdc	RE3A 4126	24 Vac	RE3A 4107
24 Vdc	RE3A 4127	48 Vac	RE3A 4111
48 Vdc	RE3A 4131	110 Vac	RE3A 4113
110 Vdc	RE3A 4133	127 Vac	RE3A 4115
127 Vdc	RE3A 4135	220 Vac	RE3A 4116
220 Vdc	RE3A 4136	380 Vac	RE3A 4117

Qualified products		
RE 3000 N		
48 Vdc	RE3A4121-CFG	
48 Vdc + Diode	RE3A4122-CFG	
125 Vdc	RE3A4125-CFG	

At 48 Vdc and 125 Vdc for RE 3000 N model

Sockets and retaining clips		RE 3000 / N	Retaining clip
Type of installation	Type of outputs	Model	Retaining clip
For wall mounting	Single faston	EVL 3100	ACCA 4162
	Screw	EVV 3100	ACCA 4162
For flush mounting	Screw	EVR 3100	ACCA 4162
	Single blade	ERL 310	ACCA 4162
	Double blade	ERL 320	ACCA 4162

### **Mounting tips**

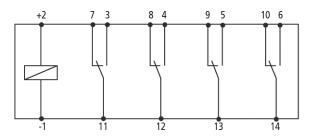
The preferred mounting position is on the wall, with the relay positioned horizontally in the reading direction on the nameplate. For correct use of the relays, they should be spaced apart by at least 5 mm in the horizontal direction and 20 mm in the vertical direction. This is to allow correct upward dissipation of the heat generated by the coil. Set these distances according to the socket used. Distances

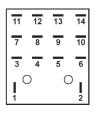
can be reduced depending on the environmental application conditions and on the relay duty cycle.

For safe and secure operation, it is advisable to use retaining clips.

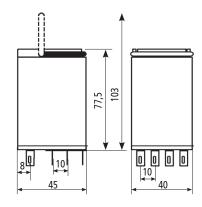
No special maintenance is required.

Condensation can form inside the relay when powered up and the outside ambient temperature is cold; this is quite normal and does not affect the operation of the relay. The plastic materials of the relay do not possess hygroscopic properties.

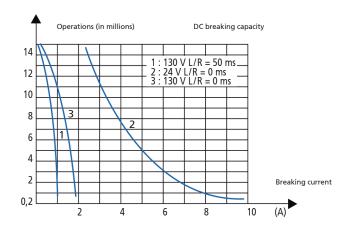


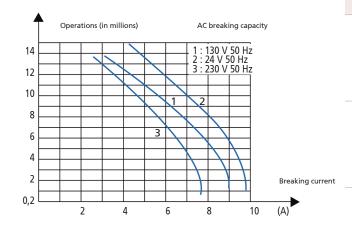


## **Dimensions**



## **Electrical life expectancy**





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