

# TECHNICAL DATA SHEET Special customized relay RF-5248

## Current monitoring relay



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## 1. INTRODUCTION

This relay belongs to special customized references relays and is especially designed for applications where is necessary the control by current, like lamps, heating control or motor. The coil this relay has been developed to connect in series with the load. So, if the current fault or is interrupted, the relay don't work.

This reference offers 2 CO contacts for general application.

The high quality material we use to manufacture this type of relay is the same that the rest of the Releco's products.

Special requirements:

Nominal coil current 2.33A (AC 50Hz). The relay must be released between 0.5-0.7A.

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 Technical specification subject to be changed  
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## 2. ORDERING DESIGNATION

### Relay

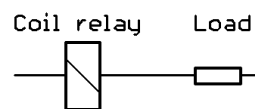
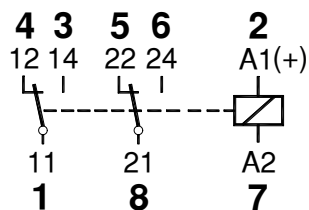
RF-5248

Accessories, socket S2-B, S2-S, S2-L, S2-PO

## 3. TECHNICAL DATA

### 3.1 Circuit diagram

The coil must be **connected in series** with the load



### 3.2 General data

Poles	2 CO (form C)
Protection class (IP code)	IP40
Pollution degree	3
Material	
Cover	Polycarbonate
Base	PBT
Mech. status indication	POM
Weight	90 g
Temperature range	
Operating / storage	-40°C (no ice) to 60°C / 80°C
Insulation	
Dielectric strength (Vrms, 1min).	
Contact - coil	2500V
Between poles	2500V
Contacts same pole	1000V (open contact)
Insulation resistance	> 1GΩ (500V)
Connection	8 round pin terminal, (according to IEC 67-1-18a)
Operation time (Un)	16 ms (bounce ON ≤ 3 ms, OFF ≤ 1 ms)
Release time without free wheeling	8 ms

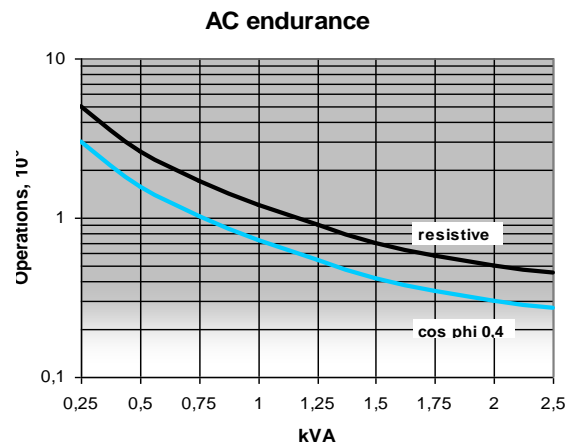
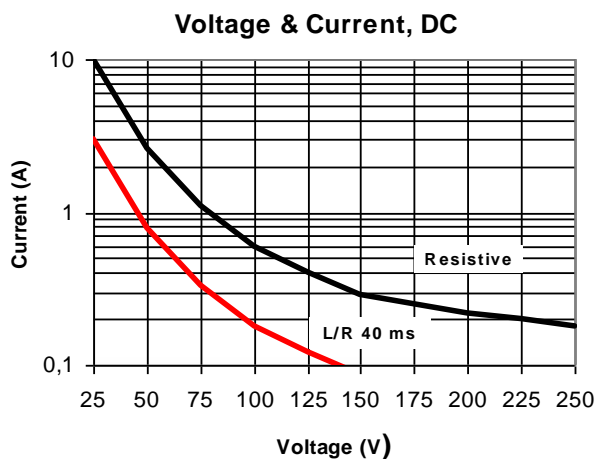
### 3.3 Coil

Nominal current	2.33A
Resistance	150 mΩ
Drop voltage in the coil	1V ± 0.5V
Drop-out current	0.5 – 0.7 A
Power consumption	2.2 VA
Limiting voltage values	0.8 – 1.1xUn

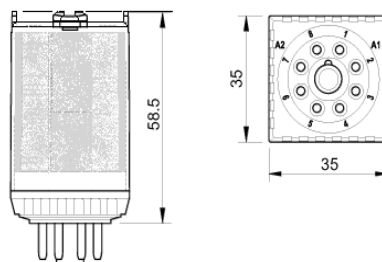
### 3.4 Contacts

Max switching current	10A
Max switching voltage	250V
Max power	2500VA
Inrush current (20 ms)	30A
Contact material	AgNi <sub>10</sub>
Contact rivet dimension	Ø 3.8 mm
Contact resistance	typical 20 mΩ /1A@10V
Contact pressure	NC typ. 25g & NO typ 30-35g
Contact gap	0.45 ± 0.05mm
Recommended min. switching load	10mA /10V
Mechanical life	≥10x10 <sup>6</sup> op
Limit load DC	see diagram (for10 <sup>5</sup> op)
Electrical endurance AC	see diagram

### 3.5 Contacts limit and endurance



## 4. DIMENSIONS



All dimensions in mm