

**TYPE APPROVAL CERTIFICATE**  
**N. ELE002013CS001**

This is to certify that the product below is found to be in compliance with the applicable requirements of the RINA type approval system.

<i>Description</i>	Electrical relay All-or-Nothing
<i>Type</i>	Series 41
<i>Applicant</i>	FINDER SpA Via Drubiaglio 14 10040 Almese (TO) Italy
<i>Manufacturer</i>	FINDER SpA Via Drubiaglio 14 10040 Almese (TO) Italy
<i>Testing Standards</i>	RINA Rules for the Classification of Ships

Issued in Genova on February 14, 2013

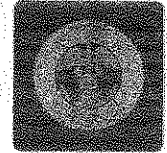
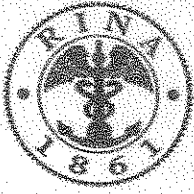
This Certificate is valid until February 14, 2018

RINA

*Valerio Bonanni*

Genova, February 14, 2013

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### Main features:

1 & 2 Pole Low profile electrical relays type:

41.31.9.xxx.x(0;4;5)01x(0;1) 41.52.9.xxx.x(0;4;5)01x(0;1) 41.61.9.xxx.x(0;4;5)01x(0;1)

Contacts rated voltage	250 ; 400 Vac
Contacts rated current	16A (1P 41.61); 12A (1P 41.31); 8 A (2P 41.52) resistive load
Coil rated voltage	5; 6; 9; 12; 24; 48; 60; 110 Vdc
Coil rated power	0,4 W + -10%
Thermal class of the coil wire	F - (H only for the 110 Vac coil).
Ambient temperature	-40 to +70 (AC).
Duty factor	5 sec. on ; 5 sec. off.
Type of contacts	Normally Open or Normally Closed or Change over
Mechanical life AC/DC	5 *10 <sup>6</sup> cycles
Electrical life at rated AC1	60000 cycles (41.31 / 41.52); 50000 cycles (41.61)
Contact material	AgNi (+Au) ; AgSnO2(+Au)

Relay Socket type 93.02 and 93.52

### Reference documents

VDE doc. n. B362 (12 September 2005)

FINDER test-report no. 017/07 (24 March 2007)

IMQ document no. CA02.03192 (09 November 2007)

FINDER catalogue VI- 2012.

Genova, February 14, 2013

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