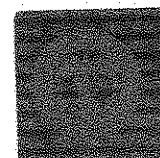




TYPE APPROVAL CERTIFICATE
N. ELE002013CS002



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 34.51
<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

1/2



TYPE APPROVAL CERTIFICATE N. ELE002013CS002

Main features:

- Ultra Slim Electrical relays, - 1 Pole - Printed circuit mount:
 34.51.7.xxx.40.xx (10;19) 34.51.7.xxx.43.xx (10;19) 34.51.7.xxx.44.xx (10;19) ;
 34.51.7.xxx..x(0;5)0xx(10;19) 34.51.7.xxx..x(0;5)3xx(10;19) 34.51.7.xxx..x(0;5)4xx(10;19)

Coil rated voltage	5; 6; 9; 12; 15; 18; 24; 48; 60
Coil rated power	0,17 W +/-15% .
Contacts rated voltage	250 VAC
Contacts rated current	6 A (resistive load)
Ambient temperature	- 40 ; +85 °C.
Number of poles	1 Normally Open or Normally Closed or Change over
Electrical operating cycles	30.000
Mechanical operating cycles	1.000.000
Duty factor	5,1 sec. on ; 5,1sec. off
Thermal class of coil wire	F
Contact material	AgSnO2 ; AgNi or gold plated
Mounting position	any position

- Ultra Slim Electrical relays - 1 Pole - Printed circuit mount:
 34.51.7.xxx.x(0;5)0.xx (10;19) 34.51.7.xxx.x(0;5)3.xx (10;19) 34.51.7.xxx.x(0;5)4.xx (10;19)
 34.51.7.xxx.40.xx (10;19) 34.51.7.xxx.43.xx (10;19) 34.51.7.xxx.44.xx (10;19)

Mechanical endurance	1.000.000 switching cycles
Switching cycles	18.000 cycles/h
Rated insulation voltage	250 Vac
Dielectric strenght between open contact	1000 Vac
Overvoltage category	III
Rated impulse voltage	6000 Vac (1.2/50us)
Pollution degree	3 (250Vac)
Mounting position	any position

Relay socket type: 93.01; 93.51; 93.61; 93.62; 93.63, 93.64;

Reference documents

- VDE doc. n. 128214 (22 October 2004)
- FINDER test-report no. 016/07 (23 March 2007).
- IMQ test report n. CA02.03193 (09 November 2007)
- IMQ test report n. CA02.03193 (23 January 2013)
- FINDER catalogue VI-2012 .

Genova, February 14, 2013

RINA
Via Corsica, 12 - 16128 Genova