



TYPE APPROVAL CERTIFICATE

N. ELE188915CS

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 40.52, 40.31, 40.51, 40.61
<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 August 12, 2015

This Certificate is valid until August 12, 2020

RINA Services S.p.A.

Francesco Sciacca

Genova, August 12, 2015

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NOMENCLATURE:

Model No.:	40	31	7	012	1	0	20	abc
	I	II	III	IV	V	VI	VII	VIII

I. Basic Electromagnetic Relay Series, NEW 40

II. Relay Designated Type

- 31 = Single-Pole, Single/Double-Throw, Relay type with PWB Soldering Single-Pin (3.5 mm pitch) terminals
- 51 = Single-Pole, Single/Double-Throw, Relay type with PWB Soldering Single-Pin (5.0 mm pitch) terminals
- 52 = Double-pole, Single/Double-Throw, Relay type with PWB Soldering Single-Pin (5.0 mm pitch) terminals
- 61 = Single-Pole, Single/Double-Throw, Relay type with PWB Soldering Double-Pin (5.0 mm pitch) terminals

III. Coil Supply Designated Type

- 7 = DC - 500 mW
- 8 = AC - 1.2 VA
- 9 = DC - 650 mW

IV. Coil Supply Designated Rated Voltage (for example)

- DC - 005, 006, 007, 009, 012, 014, 018, 021, 024, 028, 036, 048, 060, 090, 110, 125 Vdc
- AC - 006, 012, 024, 048, 060, 110, 120, 230, 240 Vac

V. Relay Contact Material

- 0 = May be used to indicate AgNi for 40.31, 40.51 and 40.52 or AgCdO for 40.61.
- 1 = Silver alloy - AgNi
- 2 = Silver alloy - AgCdO (only for relay Mod.No. 40.61)
- 4 = Silver alloy - AgSnO₂ (except relay Mod.No. 40.52)
- 5 = Silver alloy - AgNi+Au

VI. Relay Contact Circuits

- 0 = Single-Pole, Double-Throw, Change-Over (CO) - SPDT-CO
- 3 = Single-Pole, Single-Throw, Normally-Open (NO) - SPST-NO

VII. Relay Options and Special Version of End-use Installation

- 00 = "Production-Line" Relay - PIN 5 mm Long
- 01 = "Production-Line" Relay - PIN 5mm long "wash-tight" version.
- 20 = "Production-Line" Relay - PIN 3.5 mm Long
- 21 = "Production-Line" Relay - PIN 3.5 mm Long "Wash-tight" version
- 03 - 23 = Matt cover

VIII. Relay Optionals codes related to packaging

Note:

V.-VI.-VII. Equivalent Generic Codes" for "Specific Customer Request"

- 9xxx = "Equivalent Generic Codes" related to end-use customization of the Relay "Series 40". All the constructional characteristics about the "Relay Contact Materials" and the "Relay Contact Circuits" shall be kept the same as indicated in the above "Specific Codes".

Each field may be separated by dot (Ex: 40.31.7.024.0000 XXX).

Genova, August 12, 2015

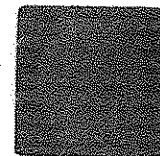
RINA Services S.p.A.
Via Corsica, 12 - 16128 Genova

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40.52.x.xxx.xxxx

Contacts rated voltage	250 Vac
Contacts rated current	8A resistive load
Number of poles /contacts	2 CO or 2 NO (DPDT)
Coil rated power	1.2 VA (AC) +/- 10%; 500 / 650 mW (DC) +/- 10%
Thermal class of the coil wire	F (155 °C)
Operating ambient temperature	-40°C to +85°C
Electric endurance	100.000 N.C ; 100.000 N.A.
Insulation material group	IIIa
Pollution degree	3
Contact material	AgNi +Au; AgNi

40.31.x.xxx.xxxx ; 40.51.x.xxx.xxxx

Contacts rated voltage	250 Vac
Contacts rated current	12A resistive load
Number of poles /contacts	1 CO or 1 NO
Coil rated power	1.2 VA (AC) +/- 10%; 500 / 650 mW (DC) +/- 10%
Thermal class of the coil wire	F (155 °C)
Operating ambient temperature	-40°C to +85°C
Electric endurance	100.000 N.C ; 100.000 N.A.
Insulation material group	IIIa
Pollution degree	3
Contact material	AgNi +Au ; AgNi ; AgSnO2

40.61.x.xxx.xxxx

Contacts rated voltage	250 Vac
Contacts rated current	16A resistive load
Number of poles /contacts	1 CO or 1 NO
Coil rated power	1.2 VA (AC) +/- 10%; 500 mW (DC) +/- 10%
Thermal class of the coil wire	F (155 °C)
Operating ambient temperature	-40°C to +85°C
Electric endurance	100.000 N.C ; 100.000 N.A.
Insulation material group	IIIa
Pollution degree	3
Contact material	AgNi +Au; AgNi ; AgCdO ; AgSnO2

Test reports

IMQ M114A0340129-01(2015-04-09) ; IMQ M114A0340129-01/1(2015-04-09) ; IMQ M114A0340129-01/2(2015-04-09)
IMQ Notification of test Results: NTR /30812/IMQ (2015-04-29)

Technical specification:

FINDER data sheet n. VI – 2015 : 40 Series – Miniature PCB / Plug-in relays 8-10-12-16

Genova, August 12, 2015

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