eurofins | Product Testing

[1] # TYPE EXAMINATION CERTIFICATE

[2] **Component intended for use in potentially explosive atmospheres**
Directive 2014/34/EU

[3] Certificate Number: **EPTI 17 ATEX 0299 U** **Issue 0**

[4] Component: **Relay**
Series: **66**

[5] Manufacturer: **FINDER S.p.A.**

[6] Address: Via Drubiaglio n. 14 – 10040 Almese (TO)

[7] This component and its accepted variations are specified in the annex to this Certificate.

[8] Eurofins Product Testing Italy S.r.l., certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of component intended for use in potentially explosive atmospheres given in Annex II of the Directive.
The examination and test results are recorded in the confidential Report N° EPT.17.REL.02/54548.

[9] Compliance with the essential health and safety is assured through the verification of them and by compliance with the standard:

EN 60079-0:2012+A11:2013; EN 60079-15:2010;

[10] The symbol "U" placed after the certificate's number indicates that this certificate must not be understood as a certificate for equipment or protective systems.
This certificate may be used as a basis for a certificate for the equipment or protective system.

[11] This TYPE EXAMINATION CERTIFICATE relates only to the design, the exam and the tests of the component specified.
Further requirements of the Directive 2014/34/EU apply to the manufacture and supply of this component. These requirements are not object of this Certificate.

[12] The component shall include the sign Ex and the following string:

II 3G Ex nC IIC Gc **-40°C ≤ Ta ≤ +70°C**

Turin, 2017-09-20

Dionisio Bucchieri
Directive Responsible

Paolo Trisoglio
Managing Director

This Certificate has 3 pages and it is reproducible only in its entirely. Conditions of validity are reported below.

[13] [14] **ANNEX**
TYPE EXAMINATION CERTIFICATE N. EPTI 17 ATEX 0299 U issue 0

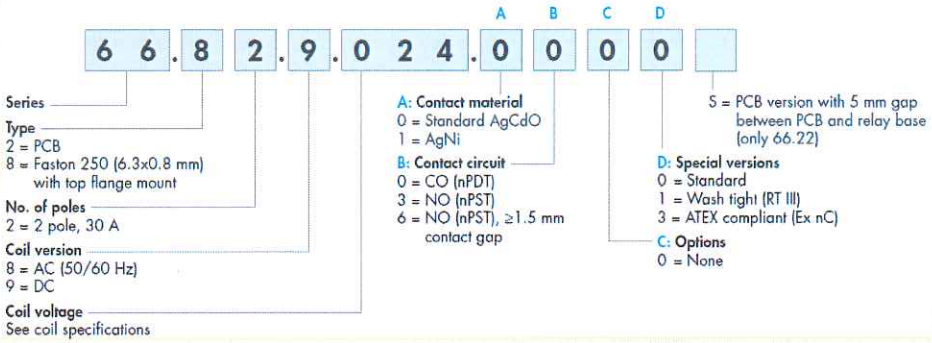
[15] **Component description**

The component is a relay.
The type of protection against explosion is realized through the use of a sealed device (Ex nC).

Range of ambient temperature: from -40 °C to +70 °C

Characteristics of terminals	
Rated current / maximum peak current[A]	25/50 (NO) 10/20 (NC)
Rated voltage / Maximum switching voltage [V AC]	250/440
Rated load - Service AC1 [VA]	6250 (NO) 2500 (NC)
Rated load - Service AC15 [VA]	1200 (NO)
Capacity for single phase motor (230 V AC) [kW]	1.5 (NO)
Breaking capacity - Service DC1: 30/110/220 V [A]	25/0.7/0.3 (NO)
Characteristics of Coil	
Rated Voltage AC (50/60 Hz) "Un" [V]	6,12,24,110/115, 120/125, 230, 240
Rated Voltage DC "Un" [V]	6,12,24,110,125
Operating range	(0.8...1.1) Un

Codification:



Features and options: only combinations on the same row are possible

Type	Coil version	A	B	C	D
66.22....S	DC	0 – 1	0 – 3 – 6	0	3
66.82	AC - DC	0 – 1	0 – 3	0	3
	DC	0 – 1	6	0	3

Warning label

Not present.

Routine test

In compliance with clause 23.2.1 of EN 60079-15, the manufacturer has to perform the dielectric strength test between galvanically isolated parts with a minimum voltage of 1880 V r.m.s. for 60 s. As an alternative, the test can also be conducted at 1880x1.2 V r.m.s. for t>0.1 s

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2017/09/20

[13] [14] **ANNEX**
TYPE EXAMINATION CERTIFICATE N. EPTI 17 ATEX 0299 U **issue 0**

[16] **Assessment Report n° EPT.17.REL.02/54548**

This Type Examination Certificate is released after the positive result of the conformity assessment of the Council Directive 2014/34/EU and to harmonized technical standards listed in this Certificate; performed by Eurofins Product Testing Italy S.r.l., and reported in the Assessment Report cited above.

[17] **Schedule of limitations**

Maximum temperature recorded on the surface of the component (obtained under the following test conditions: V_{coil}= 253V; $I_{terminal}$=25A; T_{amb}=70°C) did not exceed 120°C.
The cross-section of conductors connected to the terminals, must be at least 4 mm^2 for the Type 66.82.
The minimum cross-section of the tracks of the printed circuit board must be 0.58 mm^2, while the width must be at least 4.01 mm for Type "66.22….S".
The component must be placed inside an enclosure that meets the general requirements for enclosures which are reported as per clause 6.3 of EN 60079-15.
The connections must be made in compliance with the requirements of clause 7.2.4 or 7.2.5 of EN 60079-15.

[18] **Essential Health and Safety Requirements**

Assured by compliance with harmonized standard.

[19] **Descriptive documents**

The component object of this Certificate is described by the following documents.

Document	Name	Date	Rev.
Laboratory test report	001/13 ATEX	2013-12-13	-
Instruction for resin	Processo di resinatura 66.X2-XX03	2014-02-14	0
Safety instructions	IB6622001	2017-09-04	1

[20] **Terms and conditions**

The product liability rests with the Manufacturer, his representative or, in the absence of a representative, with the importer, in accordance with the General Product Safety Directive 2001/95/CE.

The following conditions may render this Certificate invalid:

- changes in the design or construction of the product;
- changes or amendments to the Directive 2014/34/EU
- changes or amendments in the standards which form the basis for documenting compliance with the essential requirements of the 2014/34/EU Directive.

[21] **Certificate History**

This Certificate is at its first issue and replace the TYPE EXAMINATION CERTIFICATE n. EUT 14 ATEX 0150U.
It is issued as a result of standard updates and code 66.22 deleted.

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Directive Responsible

2017/09/20

End of Certificate