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[1] # TYPE EXAMINATION CERTIFICATE

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

[3] Certificate Number: **EPTI 17 ATEX 0303 U** **Issue 0**

[4] Component: **Interface modules**
Series: **39**

[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.04/54548.

[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; EN 60079-7:2015

[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 ec nC IIC Gc **-xx°C ≤ Ta ≤ +xx°C**

Turin, 2017-10-06

Dionisio Bucchieri
Directive Responsible

Paolo Trisoglio
Managing Director

This Certificate has 4 pages and it is reproducible only in its entirely. Conditions of validity are reported below.

[13] [14] **ANNEX**
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[15] **Component description**

Interface modules Series 39 are composed of a Relay Series 34 and a Socket Series 93.
They can be mounted in the multi-pole connector code. 093.68.14.1

The modules can be mounted with plastic separator code. 093.60.

The interface modules can be mounted with 16-way jumper link code. 093.16, 093.16.0 and 093.16.1.

The protection against explosion for the relay is the type of protection for sealed devices (Ex nC).

The protection against explosion for the socket is realized by an increased safety construction (Ex ec).

The type of protection against explosion for the multi-poles connector is realized by an increased safety construction (Ex ec).

Ambient temperature between:
-20°C and +50°C (for Interface modules codes 39.81 and 39.91);
-40°C and +70°C (for the other codes);

Ratings of the interface	**39.X1/ Relay 34**	**39.81 or 39.91/ Relay 34**
Rated current / Maximum peak current [A]	6/10	6/10
Rated voltage/Maximum switching voltage [V AC]	250/400	250/400
Rated load - Service AC1 [VA]	1500	1500
Rated load - service AC15 [VA]	300	300
Capacity for single phase motor (230 V AC) [kW]	0.185	0.185
Breaking capacity - Service DC1: 30/110/220 V [A]	6/0.2/0.12	6/0.2/0.12
Ratings of the coil	**39.X1**	**39.81 or 39.91**
Rated Voltage DC "Un" [V]	6, 12, 24	12, 24
Rated Voltage AC "Un" [V]	230..240	12, 24
Rated Voltage AC/DC "Un" [V]	6, 12, 24, 110…125, 24…240	12, 24
Operating range	(0.8…1.1) Un	(0.8…1.1) Un

When more interfaces are mounted face to face, they are subjected to a current derating:

Interface code	**Rated Voltage**	**More than one interface with 093.60 at 70°C (Except 39.81 and 39.91)**	**More than one interface at 40°C**	**More than one interface at 70°C (Except 39.81 and 39.91)**
39.X1.7.006.X073	6 V DC	6 A	6 A	5 A
39.X1.7.012.X073	12 V DC			
39.X1.7.024.X073	24 V DC			
39.X1.0.006.X073	6 V AC/DC	6 A	6 A	5 A
39.X1.0.012.X073	12 V AC/DC			
39.X1.0.024.X073	24 V AC/DC			
39.X1.0.125.X073	(110…125) V AC/DC	5 A	6 A	4 A
39.X1.8.230.X073	(230…240) V AC	6 A	6 A	5 A
39.X1.0.240.X073	(24…240) V AC/DC	6 A	6 A	5 A

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Codification

Relay code is 34.51.7.ZZZ.X000 where ZZZ are the voltage and X the contact material.

Interface for relays EMR and socket with screws				
Interface code	Rated Voltage	Socket code	Relay code	Note for relay codification
39.11.7.006.X073	6 V DC	93.61.7.024.7	34.51.7.005.X000	X = 0 contacts AgSnO2 X = 1 contacts AgNi X = 5 contacts AgSnO2+Au
39.11.7.012.X073	12 V DC	93.61.7.024.7	34.51.7.012.X000	
39.11.7.024.X073	24 V DC	93.61.7.024.7	34.51.7.024.X000	
39.11.0.006.X073	6 V AC/DC	93.61.0.024.7	34.51.7.005.X000	
39.11.0.012.X073	12 V AC/DC	93.61.0.024.7	34.51.7.012.X000	
39.11.0.024.X073	24 V AC/DC	93.61.0.024.7	34.51.7.024.X000	
39.11.0.125.X073	(110...125) V AC/DC	93.61.0.125.7	34.51.7.060.X000	
39.11.8.230.X073	(230...240) V AC	93.61.8.230.7	34.51.7.060.X000	
39.11.0.240.X073	(24...240) V AC/DC	93.61.0.240.7	34.51.7.024.X000	
39.81.0.012.X073	12 V AC/DC	93.68.0.0.024.7	34.51.7.012.X000	
39.81.0.024.X073	24 V AC/DC	93.68.0.0.024.7	34.51.7.024.X000	

Interface for relays EMR and socket Push in				
Interface code	Rated Voltage	Socket code	Relay code	Note for relay codification
39.01.7.006.X073	6 V DC	93.60.7.024.7	34.51.7.005.X000	X = 0 contacts AgSnO2 X = 1 contacts AgNi X = 5 contacts AgSnO2+Au
39.01.7.012.X073	12 V DC	93.60.7.024.7	34.51.7.012.X000	
39.01.7.024.X073	24 V DC	93.60.7.024.7	34.51.7.024.X000	
39.01.0.006.X073	6 V AC/DC	93.60.0.024.7	34.51.7.005.X000	
39.01.0.012.X073	12 V AC/DC	93.60.0.024.7	34.51.7.012.X000	
39.01.0.024.X073	24 V AC/DC	93.60.0.024.7	34.51.7.024.X000	
39.01.0.125.X073	(110...125) V AC/DC	93.60.0.125.7	34.51.7.060.X000	
39.01.8.230.X073	(230...240) V AC	93.60.8.230.7	34.51.7.060.X000	
39.01.0.240.X073	(24...240) V AC/DC	93.60.0.240.7	34.51.7.024.X000	
39.91.0.012.X073	12 V AC/DC	93.69.0.0.024.7	34.51.7.012.X000	
39.91.0.024.X073	24 V AC/DC	93.69.0.0.024.7	34.51.7.024.X000	

Warning label

Not present.

Routine test

In compliance with clause 7.1 of EN 60079-7, the manufacturer has to perform the dielectric strength test between galvanically isolated parts with a minimum voltage of:

- (2*U+1000) V r.m.s. for 60 s, where "U" is the working voltage (when "U" is > 90 V); or
- 500 V r.m.s. for 60 s, (when "U" is ≤ 90 V)

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2017/10/06

[13] [14] **ANNEX**
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[16] **Assessment Report n° EPT.17.REL.04/54548**

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**

- The operating temperature, in the point of installation of the component, must not exceed the maximum ambient temperature reported on the marking label;
- The cross section of conductors connected to the terminals, must be at least 2.5 mm^2.
- The components have to be installed in an enclosure already ATEX Certified that provides a minimum ingress protection of IP 54 in accordance with EN 60079-0.
- Electrical connections have to be done in compliance with clause 4.2.2 of EN 60079-7.
- See safety instruction for information regarding the maximum surface temperature reached by the component.

In addition, only for socket with operating voltage below 90 V:

- The component shall be used in an area of at least pollution degree 2, as defined in IEC 60664-1.
- Transient protection shall be provided that is set a level not exceeding 140% of the peak rated voltage value at the supply terminals to the component.

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

Assured by compliance with harmonized standard.

[19] **Descriptive documents**

The Component is described by the following documents:

Document	Name	Rev.	Date
Safety instructions – Interface modules	IB3911VXX	-	10/2017
Safety instructions – Temporized interface modules	IB3981_91	-	10/2017
Laboratory test report	002/15 ATEX	-	06/02/2015
	003/15 ATEX	-	04/02/2015
	004/15 ATEX	-	11/02/2015
	005/15 ATEX	-	11/02/2015
	006/15 ATEX	-	12/02/2015
	002/16 ATEX	-	01/12/2016
Instruction for resin	IT 077	0	07/05/2015

[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 15 ATEX 0194U. It is issued as a result of standard updates and addition of temporized interface modules.

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End of Certificate