



[1]

EU-TYPE EXAMINATION CERTIFICATE

[2] **Equipment intended for use in potentially explosive atmospheres Directive 2014/34/EU – Annex III**

[3] Certificate Number: **EPT 24 ATEX 5380 X** **issue 2**

[4] Equipment: **Industrial switch-disconnectors
CAMTAIS-EX & CAMALUPRES-EX**

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

[6] Address: **Via F. Palazzoli, 31 - 25128 Brescia - Italy**

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

[8] Eurofins Product Testing Italy S.r.l., Notified Body n. 0477 in accordance with Article 21 of the Directive 2014/34/EU of the European Parliament and of the Council of 26th February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment 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.25.REL.03/2513119

[9] Compliance with the essential health and safety requirements is assured through the verification of them and by compliance with the following harmonized standards:

EN IEC 60079-0:2018, EN IEC 60079-31:2014

further the conformity with requirements of **EN IEC 60079-31:2024** has been verified

[10] If the sign "X" is placed after the Certificate number, it indicates that the equipment is subject to the special conditions for safe use specified in the annex to this Certificate.

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

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

II 2 D Ex tb IIIC T65°C...T100°C Db

-40°C ≤ Ta ≤ +60°C

Extended ambient temperature range

The relationships between rated current values, ambient temperature ranges and temperature limits are reported in the equipment description.

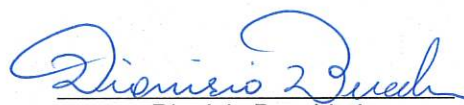
Place and date of issue:
(dd-mm-yyyy)

Torino, 10-04-2026



00054

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Dionisio Bucchieri
Directive Responsible


Paolo Trisoglio
Managing Director



*This Certificate is composed of 6 pages and it is integrally reproducible only.
Conditions of validity are reported below.*

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ANNEX
EU-TYPE EXAMINATION CERTIFICATE
N. EPT 24 ATEX 5380 X issue 2

[15] Equipment description

The industrial switch-disconnector of the CAMTAIS-EX and CAMALUPRES-EX series are designed to be used in presence of potentially explosive atmospheres requiring equipment with EPL Db.

The CAMTAIS-EX series features a main enclosure made of thermosetting material and the CAMALUPRES-EX series consists of a painted die-cast aluminium enclosure; the other parts defining the enclosure boundary (i.e. switch-disconnector operating handle and front plate) are made of dissipative polyamide material. Flat gaskets and O-rings are involved to maintain the IP degree of protection between the mating parts and to ensure the dust-tight properties according to the Ex tb type of protection.

The cover is kept closed by means of screws and an undercut mechanism additionally prevents the housing cover from opening when the industrial switch-disconnector is in "I" position. Both the CAMTAIS-EX and CAMALUPRES-EX are provided with two plain holes (one on each upper and lower short wall) suitable to accommodate cable entry devices having size M25 x 1.5 or M32 x 1.5 to be tightened with locknut. The field wiring of the equipment is provided by the termination facilities of the switch-disconnector installed inside the main enclosure. The industrial switch-disconnector can have a total number of poles ranging from 2 to 4, a maximum rated voltage of 690 V and a current rating up to 40 A when provided with the switch-disconnector model A32-EX and up to 100 A when provided with the switch-disconnector model A63-EX; details related to the utilization categories are detailed in the electrical parameters section. The internal earth connection is provided on all the versions and an external connection for the earth bonding is also available on the CAMALUPRES-EX series.

The equipment has an extended ambient temperature range of -40 °C ÷ +60 °C and a degree of protection IP66 according to the standards EN 60529 and EN IEC 60079-0.

Code designation:

Each industrial switch-disconnector is identified on the label by an article code as explained by the coding scheme visible below:

SaaabbcEXddd-eee			
Coding legend			
S	Prefix for non-standard products	Void =	Standard configuration
		S =	Non-standard configuration
aaa	Product family	270 =	CAMALUPRES-EX series
		290 =	CAMTAIS-EX series
bb	Rated maximum current	16 =	16 A
		25 =	25 A
		32 =	32 A
		40 =	40 A
		63 =	63 A
		10 =	100 A
c	Number of poles	2 =	2
		3 =	3
		4 =	4



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EX	Version	EX=	ATEX execution
ddd^(*)	Type of cable glands	MNS =	Metallic for non-armoured cables - Small size
		MNL =	Metallic for non-armoured cables - Large size
		MAS =	Metallic for armoured cables - Small size
		MAL =	Metallic for armoured cables - Large size
		Void =	Plastic for non-armoured cables (Standard version)
eee^(**)	Custom characteristics	eee =	Unique identification number, see note (**)
		Void =	Standard version

Examples:
270634EX →

Switch-disconnector **CAMALUPRES-EX** series, 63 A, 4 Poles, Plastic cable glands.

S290323EX-MAL →

Switch-disconnector **CAMTAIS-EX** series, 32 A, 3 Poles, Metallic cable glands for armoured cables - Large size.

(*): Cable glands are not included in the scope of this document and are covered by separate type certificates.

(**): If the "eee" field is used, the article code is associated with a specific drawing deposited in Palazzoli which exactly describes the non-standard configuration, for example for different cable glands (number, position, type and dimensions) or use of internal earth continuity plate, in accordance with the technical file. A copy of the specific drawing is supplied with each product.

Electrical ratings

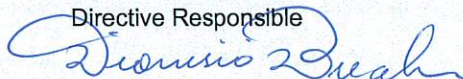
Maximum rated currents								
Rated current of the switch			16 A	25 A	32 A	40 A	63 A	100 A
Maximum conventional enclosed thermal current (I _{th})			16 A	25 A	32 A	40 A	63 A	100 A
Maximum conventional free air thermal current (I _{th})			16 A	25 A	32 A	40 A	63 A	100 A
Maximum rated current (I _e)	AC-21A	max 690 V	16 A	25 A	32 A	40 A	63 A	100 A
	AC-22A	max 690 V	16 A	25 A	32 A	40 A	63 A	100 A
	AC-23A	max 690 V	16 A	25 A	32 A	32 A	63 A	63 A
	DC-21A	max 300 V	16 A	25 A	32 A	32 A	63 A	63 A
Rated conditional short-circuit current with protection by fuses type gG (I _{cc})			10 kA (16 A fuses)	10 kA (25 A fuses)	10 kA (32 A fuses)	10 kA (32 A fuses) 5 kA (40 A fuses)	10 kA (63 A fuses)	10 kA (63 A fuses) 5 kA (100 A fuses)



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ANNEX

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Temperature limitation chart and rated nominal current:

The relationships between rated current values, ambient temperature ranges and temperature limits are reported in the table below:

Temperature classifications			
CAMTAIS-EX			
In	t _{amb} range	T _{surf} (Dust)	Delay time for enclosures opening
16 A	-40 °C ... +55 °C	T70°C	10 min
	-40 °C ... +60 °C	T75°C	
25 A	-40 °C ... +50 °C	T75°C	10 min
	-40 °C ... +60 °C	T85°C	
32 A	-40 °C ... +45 °C	T70°C	10 min
	-40 °C ... +60 °C	T85°C	
40 A	-40 °C ... +45 °C	T70°C	10 min
	-40 °C ... +60 °C	T85°C	
63 A	-40 °C ... +30 °C	T70°C	10 min
	-40 °C ... +60 °C	T100°C	
100 A	-40 °C ... +45 °C	T85°C	10 min
	-40 °C ... +55 °C	T95°C	
CAMALUPRES-EX			
In	t _{amb} range	T _{surf} (Dust)	Delay time for enclosures opening
16 A	-40 °C ... +55 °C	T70°C	10 min
	-40 °C ... +60 °C	T75°C	
25 A	-40 °C ... +50 °C	T75°C	10 min
	-40 °C ... +60 °C	T85°C	
32 A	-40 °C ... +45 °C	T70°C	10 min
	-40 °C ... +60 °C	T85°C	
40 A	-40 °C ... +45 °C	T70°C	10 min
	-40 °C ... +60 °C	T85°C	
63 A	-40 °C ... +35 °C	T70°C	10 min
	-40 °C ... +60 °C	T95°C	
100 A	-40 °C ... +30 °C	T65°C	10 min
	-40 °C ... +60 °C	T95°C	

Warning label

- Do not open when energized.
- Refer to instructions for cables characteristics.
- After de-energizing, delay 10 min. before opening.
- Potential electrostatic charging hazard - see instructions.

Routine tests

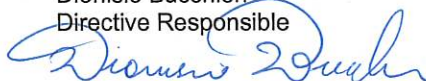
None



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EU-TYPE EXAMINATION CERTIFICATE
N. EPT 24 ATEX 5380 X issue 2

[16] Assessment Report n° EPT.25.REL.03/2513119

This EU-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 the Notified Body Eurofins Product Testing Italy S.r.l., and reported in the Assessment Report above cited.

[17] Special condition for a safe use

- The CAMTAIS-EX series is intended for installation in areas of low mechanical risk, see manual for further details.
- Potential electrostatic charging hazard, see instructions.

[18] Essential Health and Safety Requirements

Assured by compliance with harmonized standards.

[19] Descriptive documents

The equipment object of this Certificate are described by the following documents that are scheduled documents and therefore they cannot be modified without the explicit authorization of the Notified Body.

Type of document	Document identification	Rev.	Date
*Technical note	432	2	20-01-2026
Assembly and detail drawings	Annex 03 TF Doc. N. 432	1	27-09-2024
Marking details	Annex 04 TF Doc. N. 432	1	26-09-2024
*Safety, use and maintenance instructions	C010340	2	20-01-2026

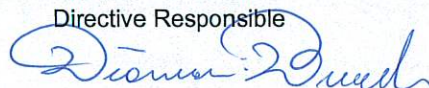
* New or revised document



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[20] Terms and validity 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/EC.

The following conditions may render this certificate invalid:

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

[21] History

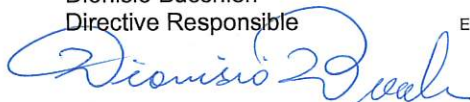
Issue	Description	Date
0	First Emission.	21-02-2024
1	Addition of model 100A	28-11-2024
2	Verified conformity to requirements of EN IEC 60079-31:2024	10-04-2026



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End of Certificate

10-04-2026

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[1]

TYPE EXAMINATION CERTIFICATE

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

[3] Certificate Number: **EPTI 24 ATEX 0440 X** **issue 1**

[4] Equipment: **Industrial switch-disconnectors**
Model: **CAMTAIS-EX & CAMALUPRES-EX**

[5] Manufacturer: **PALAZZOLI S.P.A.**

[6] Address: **Via F. Palazzoli, 31 - 25128 Brescia - Italy**

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

[8] Eurofins Product Testing Italy S.r.l. certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment 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.24.REL.04/2413105.

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

EN IEC 60079-0:2018, EN IEC 60079-7:2015+A1:2018, EN 60079-15:2010

Furthermore, the equipment has been evaluated according to the requirements of the following standard: **EN IEC 60079-15:2019**

[10] If the sign "X" is placed after the Certificate number the equipment is subjected to special conditions for safe use specified in the annex to this Certificate.

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

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

II 3 G

Ex ec nC IIC T6...T4 Gc

The relationships between rated current values, ambient temperature ranges and temperature limits are reported in the equipment description.

-40°C ≤ Ta ≤ +60°C

Extended ambient temperature range

Place and date of issue:
(DD-MM-YYYY)

Torino, 28-11-2024



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Head of the Directive



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ANNEX
TYPE EXAMINATION CERTIFICATE
N. EPTI 24 ATEX 0440 X issue 0

[15] Equipment description

The industrial switch-disconnector of the CAMTAIS-EX and CAMALUPRES-EX series are designed to be used in presence of potentially explosive atmospheres requiring equipment with EPL Gc.

The CAMTAIS-EX series features a main enclosure made of thermosetting material and the CAMALUPRES-EX series consists of a painted die-cast aluminium enclosure; the other parts defining the enclosure boundary (i.e. switch-disconnector operating handle and front plate) are made of dissipative polyamide material. Flat gaskets and O-rings are involved to maintain the IP degree of protection between the mating parts.

The cover is kept closed by means of screws and an undercut mechanism additionally prevents the housing cover from opening when the industrial switch-disconnector is in "I" position. Both the CAMTAIS-EX and CAMALUPRES-EX are provided with two plain holes (one on each upper and lower short wall) suitable to accommodate cable entry devices having size M25 x 1.5 or M32 x 1.5 to be tightened with locknut. The field wiring of the equipment is provided by the termination facilities of the switch-disconnector installed inside the main enclosure; this part consists of an Ex component and meets the requirements of the types of protection "ec" and "nC". The industrial switch-disconnector can have a total number of poles ranging from 2 to 4, a maximum rated voltage of 690 V and a current rating up to 40 A when provided with the switch-disconnector model A32-EX and up to 100 A when provided with the switch-disconnector model A63-EX; details related to the utilization categories are detailed in the electrical parameters section. The internal earth connection is provided on all the versions and an external connection for the earth bonding is also available on the CAMALUPRES-EX series.

The equipment has an extended ambient temperature range of -40 °C ÷ +60 °C and a degree of protection IP66 according to the standards EN 60529 and EN IEC 60079-0.

Code designation:

Each industrial switch-disconnector is identified on the label by an article code as explained by the coding scheme visible below:

SaaabbcEXddd-eee			
Coding legend			
S	Prefix for non-standard products	Void =	Standard configuration
		S =	Non-standard configuration
aaa	Product family	270 =	CAMALUPRES-EX series
		290 =	CAMTAIS-EX series
bb	Rated maximum current	16 =	16 A
		25 =	25 A
		32 =	32 A
		40 =	40 A
		63 =	63 A
		10 =	100 A
c	Number of poles	2 =	2
		3 =	3
		4 =	4
EX	Version	EX =	ATEX execution
ddd(*)	Type of cable glands	MNS =	Metallic for non-armoured cables - Small size
		MNL =	Metallic for non-armoured cables - Large size
		MAS =	Metallic for armoured cables - Small size
		MAL =	Metallic for armoured cables - Large size

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		Void =	Plastic for non-armoured cables (Standard version)
eee ^(**)	Custom characteristics	eee =	Unique identification number, see note ^(**)
		Void =	Standard version
Examples: 270634EX → Switch-disconnector CAMALUPRES-EX series, 63 A, 4 Poles, Plastic cable glands. S290323EX-MAL → Switch-disconnector CAMTAIS-EX series, 32 A, 3 Poles, Metallic cable glands for armoured cables - Large size.			

(*): Cable glands are not included in the scope of this document and are covered by separate type certificates.

(**): If the "eee" field is used, the article code is associated with a specific drawing deposited in Palazzoli which exactly describes the non-standard configuration, for example for different cable glands (number, position, type and dimensions) or use of internal earth continuity plate, in accordance with the technical file. A copy of the specific drawing is supplied with each product.

Electrical ratings

Maximum rated currents								
Rated current of the switch			16 A	25 A	32 A	40 A	63 A	100 A
Maximum conventional enclosed thermal current (I_{th})			16 A	25 A	32 A	40 A	63 A	100 A
Maximum conventional free air thermal current (I_{th})			16 A	25 A	32 A	40 A	63 A	100 A
Maximum rated current (I_e)	AC-21A	max 690 V	16 A	25 A	32 A	40 A	63 A	100 A
	AC-22A	max 690 V	16 A	25 A	32 A	40 A	63 A	100 A
	AC-23A	max 690 V	16 A	25 A	32 A	32 A	63 A	63 A
	DC-21A	max 300 V	16 A	25 A	32 A	32 A	63 A	63 A
Rated conditional short-circuit current with protection by fuses type gG (I_{cc})			10 kA (16 A fuses)	10 kA (25 A fuses)	10 kA (32 A fuses)	10 kA (32 A fuses) 5 kA (40 A fuses)	10 kA (63 A fuses)	10 kA (63 A fuses) 5 kA (100 A fuses)

Temperature limitation chart and rated nominal current:

The relationships between rated current values, ambient temperature ranges and temperature limits are reported in the table below:

Temperature classifications			
CAMTAIS-EX			
In	t _{amb} range	T _{class} (Gas)	Delay time for enclosures opening
16 A	-40 °C ... +55 °C	T6	10 min
	-40 °C ... +60 °C	T5	
25 A	-40 °C ... +50 °C	T5	10 min
	-40 °C ... +60 °C	T4	
32 A	-40 °C ... +45 °C	T5	10 min
	-40 °C ... +60 °C	T4	
40 A	-40 °C ... +45 °C	T5	10 min
	-40 °C ... +60 °C	T4	

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63 A	-40 °C ... +30 °C	T5	10 min
	-40 °C ... +60 °C	T4	
100 A	-40 °C ... +45 °C	T4	10 min
	-40 °C ... +55 °C	T4	
CAMALUPRES-EX			
In	t _{amb} range	T _{class} (Gas)	Delay time for enclosures opening
16 A	-40 °C ... +55 °C	T6	10 min
	-40 °C ... +60 °C	T5	
25 A	-40 °C ... +50 °C	T5	10 min
	-40 °C ... +60 °C	T4	
32 A	-40 °C ... +45 °C	T5	10 min
	-40 °C ... +60 °C	T4	
40 A	-40 °C ... +45 °C	T5	10 min
	-40 °C ... +60 °C	T4	
63 A	-40 °C ... +35 °C	T5	10 min
	-40 °C ... +60 °C	T4	
100 A	-40 °C ... +30 °C	T5	10 min
	-40 °C ... +60 °C	T4	

Warning label

- Do not open when energized.
- Refer to instructions for cables characteristics.
- After de-energizing, delay 10 min. before opening.
- Potential electrostatic charging hazard - see instructions.

Routine tests

None.

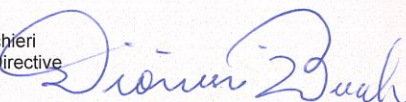
[16] Assessment Report n° EPT.24.REL.04/2413105

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

[17] Special conditions for a safe use

- The CAMTAIS-EX series is intended for installation in areas of low mechanical risk, see manual for further details.
- Potential electrostatic charging hazard, see instructions.

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Head of the Directive



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**ANNEX
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N. EPTI 24 ATEX 0440 X issue 0**

[18] Essential Health and Safety Requirements

Assured by compliance with harmonized standard.

[19] Descriptive documents

The equipment objects of this Certificate is described by the following documents

Type of document	Document identification	Rev.	Date
Technical note	432	1	30-09-2024
Assembly and detail drawings	Annex 03 TF Doc. N. 432	1	27-09-2024
Marking details	Annex 04 TF Doc. N. 432	1	26-09-2024
Safety, use and maintenance instructions	C010340	1	25-09-2024

[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

Issue	Description	Date
0	First Emission	21-02-2024
1	Addition of model 100A	28-11-2024

Dionisio Bucchieri
Head of the Directorate

End of Certificate

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