IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx CQM 26.0021X** Page 1 of 3 Certificate history:

Status: **Current** Issue No: 0

Date of Issue: 2026-07-13

Applicant: **MASCO EXPLOSION-PROOF APPLIANCES (SHANGHAI) CO., LTD.**
1st Floor, 1st Building, No.58 Dijie Road, Baoshan District,
Shanghai 201900
China

Equipment: **Explosion-proof appliance cabinet type E*-*/*/*/***

Optional accessory:

Type of Protection: **Flameproof enclosure "db", Intrinsic safety "i" and Dust ignition protection by enclosure "tb"**

Marking: For product type EJB-*/*/* and EDB-*/*/* :

Ex db IIB+H_2 T6/T5/T4 Gb

Ex tb IIIC T80°C/T95°C/T130°C Db

For product type ECP-*/*/* without I.S. modules:

Ex db IIB+H_2 T6/T5/T4 Gb

Ex tb IIIC T80°C/T95°C/T130°C Db

For product type EJB-*/*/*/C and ECP-*/*/* with I.S. modules:

Ex db ia IIB+H_2 T6/T5/T4 Gb

Ex db ia ib [ia Ga] IIB+H_2 T6/T5/T4 Gb

Ex db ib [ia Ga] IIB+H_2 T6/T5/T4 Gb

Ex tb IIIC T80°C/T95°C/T130°C Db

Approved for issue on behalf of the IECEx Certification Body: **Ji Xiaodong**

Position: **President**

Signature:
(for printed version)

Date:
(for printed version)

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Certificate issued by:

China Quality Mark Certification Group Co., Ltd.
No. 33 Zengguang Road, Haidian District
Beijing City, Postal code: 100048
China

China Quality Mark

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Certificate No.: **IECEx CQM 26.0021X**

Date of issue: 2026-07-13 Issue No: 0

Manufacturer: **MASCO EXPLOSION-PROOF APPLIANCES (SHANGHAI) CO., LTD.**
1st Floor, 1st Building, No.58 Dijie Road, Baoshan District,
Shanghai 201900
China

Manufacturing locations: **MASCO EXPLOSION-PROOF APPLIANCES (SHANGHAI) CO., LTD.**
5th Floor, Building 3, No.55 Zidong Road,
Minhang District
Shanghai 201111
China

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-31:2022 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

CN/CQM/ExTR26.0066/00

Quality Assessment Report:

CN/CQM/QAR26.0004/00

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The explosion-proof appliance cabinet are optionally to be used as junction box, communication box, distribution board or control panel. The equipment incorporates a separate certified flameproof enclosure. When the equipment is used as distribution board or control panel, there are separated certified flameproof components installed on the cover. There are optionally modules protected by intrinsic safety and other non explosion protection electrical apparatus are installed in the flameproof enclosure for communication box and control panel. The enclosure materials of products can be stainless steel 304, 316 or 316L, aluminum alloy or carbon steel Q235B. The flameproof joint between cover and body is flange joint. It is allowed to have rectangular or circular windows on the cover. It is optional to have threaded holes on the cover and body. The product fulfills the requirements of IP66 according to IEC 60529.

Refer to the attachment for details of nomenclature and technical parameters.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Ambient temperature range: -60℃~+40℃/60℃ for product without intrinsic safety module; -40℃~+40℃/60℃ for product with intrinsic safety module
2. Observe the warning "WARNING-DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT”, "WARNING-POTENTIAL ELECTROSTATIC CHARGING HAZARD-SEE INSTRUCTIONS”,"WARNING-DO NOT OPERATE UNDER LOAD", “WARNING – DO NOT OPEN WHEN ENERGIZED".
3. Use fasteners with yield strength≥450MPa.
4. Contact the original manufacturer for the information of dimension of flameproof joint.
5. Cable glands and blanking elements installed with the equipment shall be IECEx certified and suitable Equipment Protection Level (EPL) shall be achieved. The cable glands and blanking elements shall be at least EPL Gb/Db and rated at least IP66.
6. For the product installed with an ignition transformer, the output peak voltage of the ignition transformer is up to 24 kV.

Annex:

IECEx CQM 26.0021X attachment v1.0_1.pdf

Manufacturer:

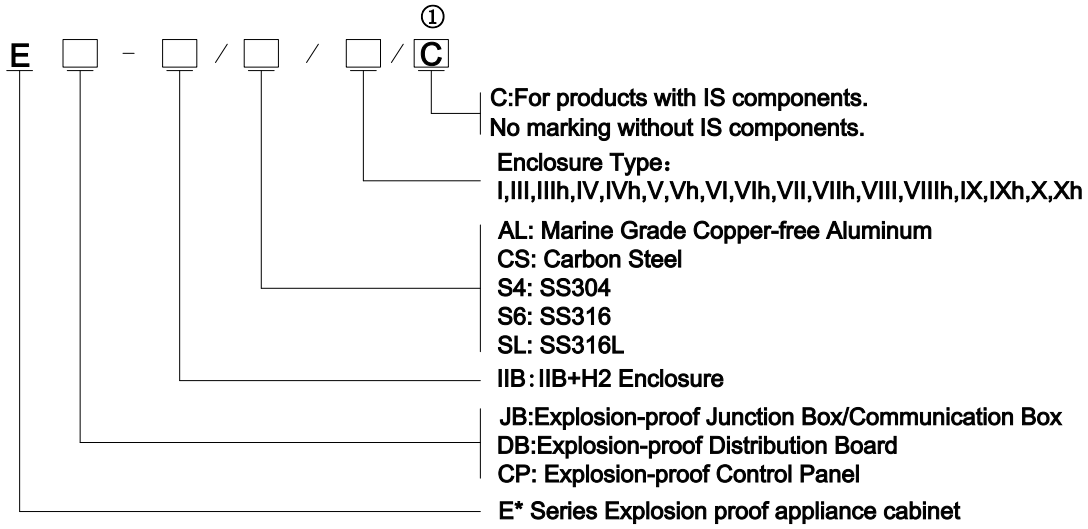
MASCO EXPLOSION-PROOF APPLIANCES (SHANGHAI) CO., LTD.

Address：1st Floor, 1st Building, No.58 Dijie Road, Baoshan District, Shanghai 201900, China

Electrical equipment:

Explosion-proof appliance cabinet type E*-*/*/*/*

Nomenclature:



Note ①: Only for products with type EJB-*/*/* series Explosion-proof Junction Box and EJB-*/*/*/C Communication Box.

Ratings:

Rated Voltage:Max.1000VAC; Max.1500VDC

Rated Current:Max.1000A

Refer to the CoC of Ex equipment installed inside for details of intrinsic safety parameters.

The enclosure and power consumption are shown in table 1 and table 2

Table 1 (SS304, SS316, SS316L, carbon steel)

No.	Code	Max power dissipation Ta=+40°C			Max power dissipation Ta=+60°C		
		T4/T130°C	T5/T95°C	T6/T80°C	T4/T130°C	T5/T95°C	T6/T80°C
1	I	135.3	82.8	50.8	104.6	54.5	24.8
2	III	204.6	115	69.8	152.7	77.8	34.1

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No.	Code	Max power dissipation Ta=+40°C			Max power dissipation Ta=+60°C		
		T4/T130°C	T5/T95°C	T6/T80°C	T4/T130°C	T5/T95°C	T6/T80°C
3	IIIh	233.2	147	97.3	183.8	92.3	43.7
4	IV	241.5	153	102.9	187.9	99.5	47.6
5	IVh	252.6	162	119.5	192.8	101.3	49.8
6	V	258.6	169	121.3	194.1	103.2	51.5
7	Vh	312.7	194.1	143.6	243.7	126.6	59.8
8	VI	350.5	218.6	150.2	277.5	132.3	53.9
9	VIh	364.7	227.2	159.3	287.3	141.2	62.1
10	VII	385.5	242.3	172.4	295.8	150.8	71.9
11	VIIh	391.2	243.9	174.7	297.2	151.3	72.8
12	VIII	890.4	536.5	370.6	710.3	356.3	174.5
13	VIIIh	894.7	539.2	372.8	711.8	359.4	175.9
14	IX	995.8	636.5	450.6	820.3	415.8	213.4
15	IXh	997.9	638.8	452.7	823.5	417.8	214.6
16	X	1275.7	833.5	523.9	995.5	510.5	243.6
17	Xh	1278.9	836.3	525.2	997.8	513.8	246.1

Table 2 (Aluminum alloy)

No.	Code	Max power dissipation Ta=+40°C			Max power dissipation Ta=+60°C		
		T4/T130°C	T5/T95°C	T6/T80°C	T4/T130°C	T5/T95°C	T6/T80°C
1	I	247.2	161.3	93.7	201.6	83.03	41.9
2	III	374.5	223.2	148.7	308.1	143.8	69.1
3	IIIh	446.6	247.2	199.5	363.2	152.8	82.9
4	IV	567.3	324.1	216.4	432.6	197.2	108.1
5	IVh	669.2	347.3	231.9	525.5	224.1	113.2
6	V	720.5	425.5	283.2	530.1	240.5	128.6
7	Vh	723.5	430.5	285.2	535.1	243.5	130.6
8	VI	728.1	433.7	287.2	539.1	247.5	132.6
9	VIh	990.5	585.5	400.3	695.5	323.2	170.7

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No.	Code	Max power dissipation Ta=+40°C			Max power dissipation Ta=+60°C		
		T4/T130°C	T5/T95°C	T6/T80°C	T4/T130°C	T5/T95°C	T6/T80°C
10	VII	996.7	588.4	402.3	697.5	325.2	174.7
11	VIIh	1124.5	826.4	493.6	732.3	478.8	234.2
12	VIII	1185.5	870.5	520.5	930.1	522.4	275.3
13	VIIIh	1189.4	874.9	523.5	932.1	524.4	279.3

Relation between type of intrinsic safety module, enclosure code and ambient temperature (Only suitable for Ta=-40°C～+60°C)

Internal component		**For product type EJB-*/*/*/C and ECP-*/*/* with I.S. modules**				
NO.	Type	Ex Marking String	Ta=40°C		Ta=60°C	
			Carbon Steel/SS304/ SS316/SS316L	Aluminum alloy	Carbon Steel/SS304/ SS316/SS316 L	Aluminum alloy
1	TMT142, TMT162	Ex db ia IIB+H_2 T6 Gb Ex tb IIIC T80℃ Db	III, V, Vh, VI, VIh, VIII, VIIIh, IX, IXh	IV, Vh	IIIh, IVh, V, Vh, VI, VIh, VII, VIIh, VIII, VIIIh, IX, IXh	IV, V, Vh
3	330180,330780,330980,330850,330878,144181, 18745,330880, 330881	Ex db ia IIB+H_2 T6 Gb Ex tb IIIC T80℃ Db	I, III, IIIh, IV, IVh, V, Vh, VI, VIh, VII, VIIh, VIII, VIIIh, IX, IXh, Xh	I, IIII, IV, V, Vh, VI, VIh,VII, VIIh,VIII	I, III, IIIh, IV, IVh, V, Vh, VI, VIh, VII, VIIh, VIII, VIIIh, IX, IXh, X, Xh	I, III, IV, IVh, V, Vh, VI, VIh, VII, VIIh, VIII, VIIIh
4	TMT82	Ex db ia IIB+H_2 T6 Gb Ex db ib [ia Ga] IIB+H2 T6 Gb Ex tb IIIC T80°C Db	III, V, Vh, VI, VIh, VIII, VIIIh, IX, IXh	IV, Vh	IIIh, IVh, V, Vh, VI, VIh, VII, VIIh, VIII, VIIIh, IX, IXh	IV, V, Vh
5	TMT84, OTMT84, TMT85, OTMT85	Ex db ia IIB+H_2 T6 Gb Ex tb IIIC T80°C Db				

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Separately Certified Equipment/Components Included in Test Item Description:

Part Type	Manufacturer	Model/Type	Certificate No.	Ex Marking String	Standard(s) and date(s)/edition(s)
Flameproof Components	MASCO EXPLOSION-PROOF APPLIANCES (SHANGHAI) CO., LTD.	Cd*-*	IECEx CQM 26.0011U	Ex db IIC Gb Ex tb IIIC Db	IEC 60079-0:2017 Edition:7.0 IEC 60079-1:2014-06 Edition:7.0 IEC 60079-31:2022 Edition:3
Explosion proof Empty Enclosure	MASCO EXPLOSION-PROOF APPLIANCES (SHANGHAI) CO., LTD.	EEB-*/*/*	IECEx CQM 26.0022U	Ex db IIB+H_2 Gb Ex tb IIIC Db	IEC 60079-0:2017 Edition:7.0 IEC 60079-1:2014-06 Edition:7.0 IEC 60079-31:2022 Edition:3
Temperature Field Transmitter	Endress+Hauser Wetzer GmbH + Co. KG	TMT142, TMT162	IECEx EPS 17.0077X	Ex ia IIC T4 Ga	IEC 60079-0:2017 Edition:7.0 IEC 60079-11:2011 Edition:6.0
Proximity System	Bently Nevada LLC	330180, 330780, 330980, 330850, 330878, 144181, 18745, 330880, 330881	IECEx CSA 16.0042X	Ex ia IIC T4 Ga	IEC 60079-0:2017 Edition:7.0 IEC 60079-11:2011 Edition:6.0
Temperature transmitter	Endress+Hauser Wetzer GmbH & Co. KG	TMT82	IECEx EPS 17.0039X	Ex ia IIC T4 Ga Ex ia IIC T4 Gb Ex ib [ia Ga] IIC T4 Gb	IEC 60079-0:2017 Edition:7.0 IEC 60079-11:2011 Edition:6.0
Head-type temperature transmitter	Endress + Hauser Wetzer GmbH + Co. KG	TMT84, OTMT84, TMT85, OTMT85	IECEx PTB 08.0001X	Ex ia IIC T4 Ga Ex ia IIC T4 Gb	IEC 60079-0:2017 Edition:7.0 IEC 60079-11:2011 Edition:6.0

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