



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.: IECEx UL 18.0106X

Issue No: 1

Certificate history:

Issue No. 1 (2019-09-26)

Issue No. 0 (2018-11-06)

Status: **Current**

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Date of Issue: **2019-09-26**

Applicant: **HOTSTART Inc., a Washington Company**
5723 East Alki Ave.
Spokane, WA 99212
United States of America

Equipment: **Heating Systems, OLA, CLA, OCLA, DOLA, OSA and CSA Series**

Optional accessory:

Type of Protection: **Flameproof "db"**

Marking:

Ex db IIA T3 Gb

-20°C to +40°C

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

Lucy Frieders

Position:

Staff Engineer

*Signature:
(for printed version)*

Date:

2019-09-26

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

UL LLC
333 Pfingsten Road
Northbrook IL 60062-2096
United States of America





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Manufacturer: **HOTSTART Inc., a Washington Company**
5723 East Alki Ave.
Spokane, WA 99212
United States of America

Additional Manufacturing location(s):

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 apparatus 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 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-1 : 2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

*This Certificate **does not** indicate compliance with electrical 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:

[US/UL/ExTR18.0121/01](#)

Quality Assessment Report:

[US/UL/QAR18.0007/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The OLA, CLA, OCLA, DOLA, OSA and CSA Heating system series are assemblies of Ex certified devices used for heating water, engine oil, and engine coolant. The various devices are interconnected with certified cable glands and suitable cables.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Flameproof joints are not intended to be repaired in the field. Do not attempt to repair any flameproof joints that become damaged.
- Warning: Wipe all operators and hoses with damp cloth to reduce potential for electro-static discharge.
- The enclosures utilize metric bolts that are Class 8.8 minimum and Class A4-70 with a minimum yield strength of 600 Mpa.

The following additional previous editions of Standards noted under the "Standards" section of the Certificate were applied to integral Components as

Weg Induction Motors of Frame Size 90 to 132 IEC 60079-1 Edition 2007

Siemens Motors IEC 60079-0 Edition 2009

Siemens Motors IEC 60079-1 Edition 2007

ABB M3JP Motors IEC 60079-0 Edition 2009

ABB M3JP Motors IEC 60079-1 Edition 2007

CMP Products Limited TMC2X Range of Cable Glands IEC 60079-1 Edition 2007

CMP Products Limited Cable Gland Types PX** IEC 60079-1 Edition 2007

Adalet/Scott Fetzer Co. XCEX Series Enclosures IEC 60079-0 Edition 2009

Adalet/Scott Fetzer Co. XCEX Series Enclosures IEC 60079-1 Edition 2007



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 1: Addition of alternate operators and motors to the OLA, CLA, OCLA, DOLA, OSA, and CSA Heating systems. Editorial changes were also made to the drawings.



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Additional information:

Annex:

[Annex to IECEX UL 18.0106X Issue 1.pdf](#)



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TYPE DESIGNATION

Nomenclature for type OLA, CLA, OCLA, DOLA, OSA and CSA Heating system series:

OLA	Phase	Wattage	Voltage	-	Motor	Pump	System Control	Other Options
I	II	III	IV	-	V	VI	VII	VIII

I -

OLA	Oil Large Ex IECEx/ATEX
CLA	Coolant Large Ex IECEx/ATEX

II -

1-	I Phase
3-	3 Phase

III -

025	2.5 kW	300	30 kW
060	6 kW	360	36 kW
090	9 kW	480	48 kW
110	11 kW	540	54 kW
120	12 kW	600	60 kW
170	17 kW	660	66 kW
180	18 kW	720	72 kW
240	24 kW		

IV -

1	120 V	60 Hz	A	400V	50 Hz
2	240 V	60 Hz	C	230V	50 Hz
3	380V	60 Hz	D	690V	50 Hz
4	480V	60 Hz	E	380V	50 Hz
5	600V	60 Hz			
6	690V	60 Hz			
7	277V	60 Hz			
8	208V	60 Hz			



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V –

1	1HP 1200 RPM	A	1HP 1000 RPM
2	1HP 1800 RPM	B	1HP 1500 RPM
3	2HP 1200 RPM	C	2HP 1000 RPM
4	2HP 1800 RPM	D	2HP 1500 RPM
5	3HP 1200 RPM	E	3HP 1000 RPM
6	3HP 1200 RPM	F	3HP 1500 RPM
7	5HP 1200 RPM	G	5HP 1000 RPM

VI –

OLA		CLA	
1	SG 1.6-2.8 GPM	3	30 GPM / 1 HP 40 GPM / 1.5 HP
2	GG 6-10 GPM	4	45 GPM / 1.5 HP 60 GPM / 2 HP

VII –

0	24V Relay
0	Pressure switch

VIII –

-	No other options
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OCLA	Phase	Coolant Wattage	Oil Wattage	Voltage	-	Coolant Pump/Motor	Oil Motor	Oil Pump	System Control
I	II	III	IV	V	-	VI	VII	VIII	IX

I –

OCLA	Oil and Coolant Ex IECEX/ATEX
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II –

1-	I Phase
3-	3 Phase

III –

060	6 kW	180	18 kW
090	9 kW	240	24 kW
110	11 kW	300	30 kW
120	12 kW	360	36 kW
170	17 kW		



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IV –

025	2.5 kW
060	6 kW
090	9 kW
120	12 kW

V –

1	120V	A	400V
2	240V	C	230V
3	380V	D	690V
4	480V	E	380V
5	600V		
6	690V		
7	277V		
8	208V		

VI –

1	15 GPM / WILO
2	20 GPM / 0.75 HP
3	40 GPM / 1 HP - 1.5 HP
4	60 GPM / 1.5 HP

VII –

1	1HP 1200 RPM	A	1HP 1000 RPM
2	1HP 1800 RPM	B	1HP 1500 RPM
3	2HP 1200 RPM	C	2HP 1000 RPM
4	2HP 1800 RPM	D	2HP 1500 RPM
5	3HP 1200 RPM	E	3HP 1000 RPM
6	3HP 1800 RPM	F	3HP 1500 RPM

VIII –

1	SG 1.6-2.8 GPM
2	GG 6-10 GPM
3	HJ 12-20 GPM
4	HL 18-30 GPM

IX –

0	24V Relay
1	Pressure switch
2	Dual 24VDC



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DOLA	Phase	Oil 1 Wattage	Oil 2 Wattage	Voltage	-	Oil 1 Motor	Oil 1 Pump	Oil 2 Motor	Oil Pump	System Control
I	II	III	IV	V	-	VI	VII	VIII	IX	X

I –

DOLA	Two Separate Oil Circuit Heating Systems IECEx/ATEX
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II –

1-	I Phase
3-	3 Phase

III –

025	2.5 kW
060	6 kW
090	9 kW
120	12 kW

IV –

025	2.5 kW
060	6 kW
090	9 kW
120	12 kW

V –

1	120V	7	277V
2	240V	8	208V
3	380V	A	400V
4	480V	C	230V
5	600V	D	690V
6	690V	E	380V

VI –

1	1HP 1200 RPM	A	1HP 1000 RPM
2	1HP 1800 RPM	B	1HP 1500 RPM
3	2HP 1200 RPM	C	2HP 1000 RPM
4	2HP 1800 RPM	D	2HP 1500 RPM
5	3HP 1200 RPM	E	3HP 1000 RPM
6	3HP 1800 RPM	F	3HP 1500 RPM

VII –

1	SG 1.6-2.8 GPM
2	GG 6-10 GPM



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VIII –

1	1HP 1200 RPM	A	1HP 1000 RPM
2	1HP 1800 RPM	B	1HP 1500 RPM
3	2HP 1200 RPM	C	2HP 1000 RPM
4	2HP 1800 RPM	D	2HP 1500 RPM
5	3HP 1200 RPM	E	3HP 1000 RPM
6	3HP 1800 RPM	F	3HP 1500 RPM

IX -

1	SG 1.6-2.8 GPM
2	GG 6-10 GPM
3	HJ 12-20 GPM
4	HL 18-30 GPM

X –

0	24V Relay
1	Pressure switch
2	Dual 24VDC

OSA	Phase	Wattage	Voltage	-	Motor	Pump	System Control	Area Classification
I	II	III	IV	-	V	VI	VII	VIII

I –

OSA	Oil Small Ex IECEX/ATEX
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II –

1-	I Phase
3-	3 Phase

III –

015	1.5 kW
025	2.5 kW
040	4.0 kW

IV –

2	240V
4	480V
8	208V
A	400V
C	230V



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V –

1	3/4 hp, 1200R (6P)	A	3/4 hp, 1000R (6P)
2	3/4-1 hp, 1800R (4P)	B	3/4 hp, 1500R (4P)
3	2 hp, 1200R (6P)	C	2 hp, 1000R (6P)
4	2 hp, 1800R (4P)	D	2 hp, 1500R (4P)

VI –

1	1.6-2.9 GPM
2	3.1-5.7 GPM
3	6.1-11 GPM

VII –

0	24 V Relay
1	Pressure Switch

CSA	Phase	Wattage	Voltage	-	Pump/Motor		System Control	Area Classification
I	II	III	IV	-	V	VI	VII	

I –

CSA	Coolant Small Ex IECEx/ATEX
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II –

1-	I Phase
3-	3 Phase

III –

030	3 kW
060	6 kW
090	9 kW
120	12 kW

IV –

2	240V
4	480V
A	400V
C	230V

V –

0	SG-0528 1HP 4P
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VI –

0	24V Relay
1	Pressure switch



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MARKING

Marking has to be readable and indelible; it has to include the following indications:

HOTSTART SPOKANE, WA. 99212 U.S.A.		REF. SERIAL NUMBER WHEN ORDERING REPLACEMENT PARTS U.S. PATENT 9,784,470	<input type="checkbox"/>
MODEL _____	HERTZ _____	IECEX UL 18.0106X	
VOLTS _____	PHASE _____	Ex db IIA T3 Gb	
AMPS _____		DEMKO 18 ATEX 2107X	
CONTROL CIRCUIT VOLTS _____		CE 0539 © II 2 G Ex db IIA T3 Gb	
SERIAL NUMBER _____			
YEAR OF MFG _____			
<small>CAUTION: TO REDUCE RISK OF IGNITION OF HAZARDOUS ATMOSPHERES, DISCONNECT FROM SUPPLY CIRCUIT BEFORE OPENING ENCLOSURE. KEEP TIGHTLY CLOSED WHEN IN OPERATION. WARNING: DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT. SEE INSTALLATION INSTRUCTIONS. WARNING: WIPE ALL OPERATORS AND HOSES WITH DAMP CLOTH TO REMOVE POTENTIAL FOR ELECTRO-STATIC DISCHARGE.</small>			
<input type="checkbox"/>			

ROUTINE EXAMINATIONS AND TESTS

Each piece of equipment defined above has to have successfully passed; before delivery:

Routine overpressure testing is required on the RTD Element welded joint in accordance with Clause 16.3 of IEC 60079-1. The test shall be conducted at a pressure of 3000 kPa for 10 seconds. The pressure shall be applied from the lead side of the RTD.

Per ExTAG DS 2015/001A, the specific Clauses of IEC 60079-14 Ed. 5 that have been satisfied along with a schedule of Equipment including all IECEx Certified items that comprise the equipment assembly are to be included in the Annex. For a complete assessment of how each Clause was considered, see below.

The following Clauses from IEC 60079-14 Ed. 5 were verified as part of the Ex equipment assembly: 4.1,4.4.1.1, 4.4.1.2, 4.4.2, 6.1, 6.2, 6.3, 6.3.1, 6.5.1, 6.5.2, 8.1, 9.1, 9.3.1, 9.3.2, 9.3.3, 9.3.8, 9.3.9, 9.5, 9.6.2, , 9.6.3, 10.1, 10.2, 10.3, 10.5, 10.6.1, 10.6.2, 11.1, 13.1, 13.2, 13.4, 13.5,14.1, 14.2, 14.3.

The following Clauses from IEC 60079-14 Ed. 5 were considered not applicable: 4.4.3, 5.12, 5.14, 5.15 , 5.16, 6.3.7 , 6.4.1, 6.4.2 , 6.5.3, 6.7, 6.7.1, 6.7.2, 6.8, 6.9, 9.2, 9.3.4, 9.3.5, 9.4, 10.4, 10.7, 10.8, 11.2.1, 11.2.2, 11.3, 11.4, 11.5, 11.6, 12, 14.4, 15, 16, 17, 18, 19, 20, 21, 22, 23, Annex H.

The following Clauses from IEC 60079-14 Ed. 5 need to be verified on site: 4.2, 4.3, 4.5, 5.1, 5.2, 5.3, 5.4.1, 5.4.2, 5.4.3, 5.4.4, 5.4.5, 5.5, 5.6.1, 5.6.2, 5.6.3, 5.7, 5.8,5.9, 5.10, 5.11, 5.13, 6.3.2, 6.3.3, 6.3.4, 6.3.4, 6.3.5, 6.3.6, 6.6, 7, 8.2, 8.3, 9.3.6, 9.3.7, 9.6.1, 9.6.4, 9.6.5, 9.6.6, Annex A, Annex C, Annex G, Annex K.



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LIST OF CERTIFIED COMPONENTS

Type	Certificate
Adalet Ex "d" flameproof enclosure 141406 N4 and 122406	IECEX UL 16.0081U
Hotstart E-Series Heating Elements	IECEX UL 18.0071X
ELPROM Ex "d" motors Frame O-M Series	IECEX EUT 14.001X
WEG Ex 'd' Motors Frame Size 90 to 132	IECEX BAS 13.0045X
ABB Ex 'd' Motors M3K_80 and M3K_80 Series	IECEX LCI 04.0029X
Siemens Ex 'd' Series D***-112**-* ^{***} , 1PS*11*-* ^{****} -* ^{***} , 1MD*11*-* ^{****} -* ^{****}	IECEX CNEX 17.0004X
Killark Ex 'd' RE-EX Series	IECEX SIR 13.0073U
Pyromation Ex 'd' Outlet Bodies 93 Series	IECEX SIR 15.01094
Adalet Ex 'd' selector switches, XHSS	IECEX UL 15.0123U
Adalet Ex 'd' reset operators, XRBL	IECEX UL 15.0123U
Adalet Ex 'd' pushbutton, XHPB	IECEX UL 15.0123U
Killark Ex 'd' blanking elements, Ex Series	IECEX SIR 13.0073U
CMP, Ex 'd' cable glands, TMC2X Series	IECEX SIR 09.0069X
CMP Ex 'd' cable glands, PXSS2KREX Series	IECEX SIR 13.0027X
Killark, Ex 'd' elbows, Ex Series	IECEX QPS 16.0012