

[1] **EU - TYPE EXAMINATION CERTIFICATE**
[2] **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres**
Directive 2014/34/EU Annex III, Module B

- [3] EU – Type Examination Certificate Number ACE25ATEX045X Rev00
- [4] Product Explosion-proof electrical apparatus Model: HLDP32-
//*
- [5] Manufacturer Helon Explosion-proof Electric Co., Ltd.
- [6] Address No.477 Jingqi Road, Yueqing Economic Development
Zone, Zhejiang Province 325600 China
- [7] This equipment or protective system and any acceptable variation there to are specified in the schedule to this certificate and the documents therein referred to.
- [8] Advanced Consulting and Engineering Iberia SL (A.C.&E. Iberia S.L.), Notified body Accreditation nº: NB3024 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive
The examination and test results are recorded in confidential Report nº. EX_EXD026_25_25-1706, EX_EXI007_25_25-1706, EX_EXT014_25_25-1706
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0:2018 : Explosive atmospheres — Part 0: Equipment — General requirements
EN 60079-1:2014: Explosive atmospheres — Part 1: Equipment protection by flameproof enclosures ‘d’
EN 60079-11:2012: Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
EN 60079-31:2014: Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure ‘t’
- [10] If the sign “X” is placed after the certificate number, it indicates that the product is subject to the Special Conditions for Use specified in the point 17 of This certificate.
- [11] This EU – Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

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[12] The marking of the equipment or protective system shall include the following:

Without safety barriers:



II 2G Ex db IIC T6...T4 Gb;

II 2DEx tb IIIC T80°C/T95°C/T130°C Db;

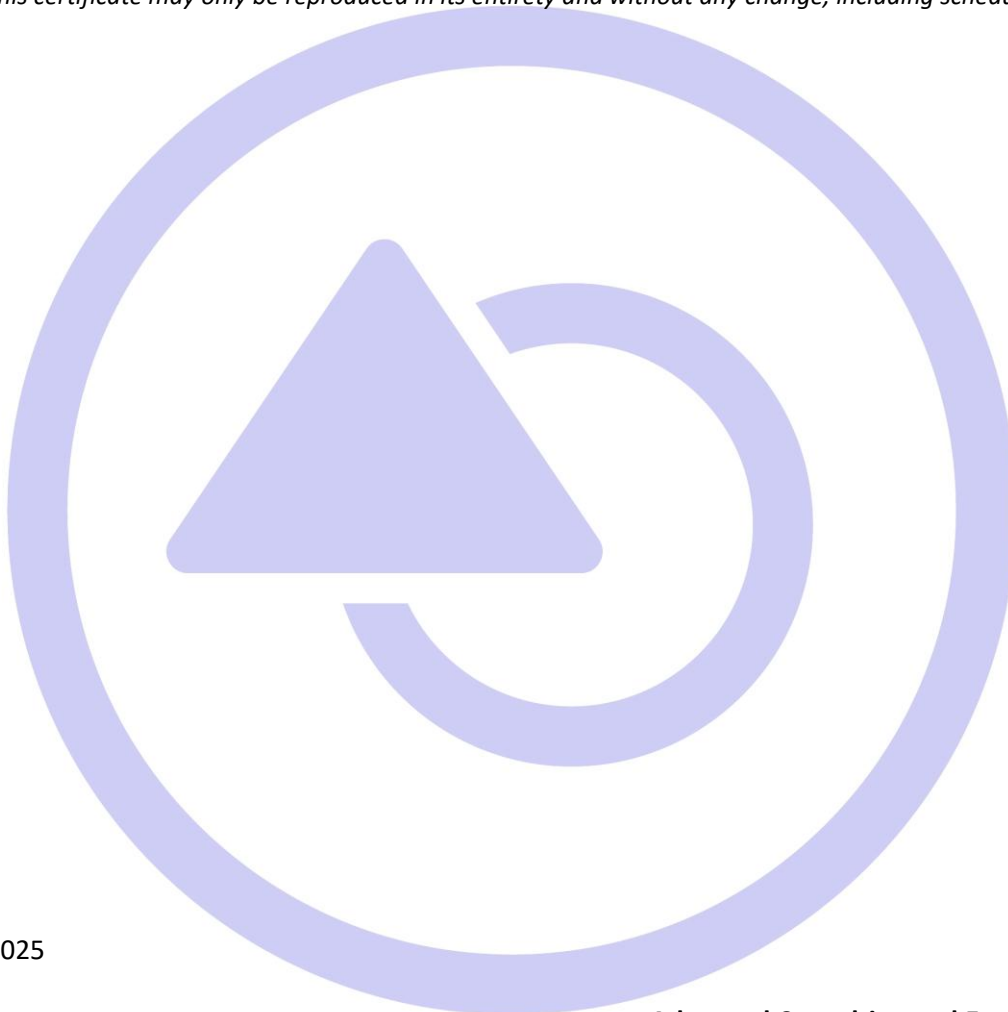
With safety barriers:



II 2G Ex db [ia Ga] IIC T6...T4 Gb;

II 2DEx tb [ia Da] IIIC T80°C/T95°C/T130°C Db

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Date: 31/10/2025



Advanced Consulting and Engineering

Iberia SL

Notified Body No NB3024

Matteo Marconi, CEO

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[13]

SCHEDULE

[14]

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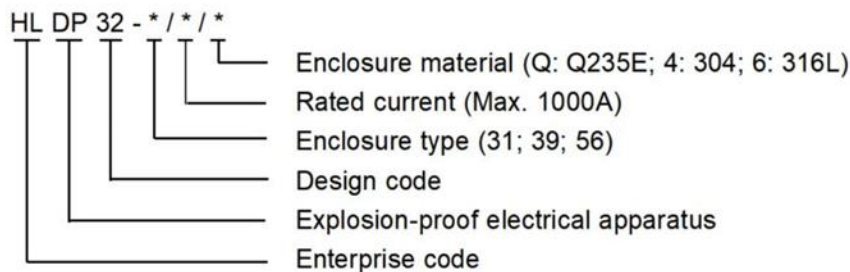
[15]

Description of equipment

HLDP32-*/*/* series Explosion-proof electrical apparatus are widely used in the explosive environments of the petroleum, chemical and pharmaceutical industries for distribution of high and low voltage grids, in the hazardous areas designated as zone 1, zone 2, or as zone 21, zone 22 (also compatible with dust ignition proof design).

Each electrical apparatus adopts a similar explosion-proof design: an explosion-proof metallic enclosure designed as type of protection “d” and “t” for built-in functional electrical elements. Optionally, it employs additional Ex components, such as Ex switch button, Ex signal lamp, Ex safety barrier, etc.

Nomenclature:



Electrical and environmental data:

Table 1 Relation between type, Ex marking and ambient temperature

Type	Size	Ex marking	Ambient temperature
HLDP32-31/*/*	450×450×300	Without safety barriers: II 2 G Ex db IIC T6...T4	1) Enclosure material is Q235E: $-40 \leq Ta \leq +40/60^\circ\text{C}$ 2) Enclosure material is 304/316L, with Ex switch button, Ex signal lamp, safety barriers: $-40 \leq Ta \leq +40/60^\circ\text{C}$ 3) Enclosure material is 304/316L, without Ex switch button, Ex signal lamp, safety barriers: $-60 \leq Ta \leq +40/60^\circ\text{C}$
HLDP32-39/*/*	550×550×350	Gb;	
HLDP32-56/*/*	650×650×400	II 2 D Ex tb IIIC T80°C/T95°C/T130°C Db; With safety barriers II 2(1) G Ex db [ia Ga] IIC T6...T4 Gb; II 2(1) D Ex tb [ia Da] IIIC T80°C/T95°C/T130°C Db	

Table 2 Relation between temperature class and dissipated power

For terminals connected to non I.S. side of safety barrier, U_m : 250V AC. For terminals which are not connected to safety barrier, the electrical parameters are as following:

Rated Voltage	Type	IP code	Temperature class and dissipated power (W) T_a 40°C			Temperature class and dissipated power (W) T_a 60°C		
			T6/ T80°C	T5/ T95°C	T4/ T130°C	T6/ T80°C	T5/ T95°C	T4/ T130°C

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<p>Low voltage: Max.1250V AC/DC, 50/60Hz High voltage: Max.15kV AC,50/60Hz Rated current: 1000A</p>	HLDP32-31/*/* with Ex switch button, Ex signal lamp	IP66	255	275	-	110	156	-
	HLDP32-31/*/* without Ex switch button, Ex signal lamp	IP66/IP67	255	360	380	110	220	275
	HLDP32-39/*/* with Ex switch button, Ex signal lamp	IP66	360	-	-	165	215	-
	HLDP32-39/*/* without Ex switch button, Ex signal lamp	IP66/IP67	410	530	-	165	360	-
	HLDP32-56/*/* with Ex switch button, Ex signal lamp	IP66	460	526	-	200	310	-
	HLDP32-56/*/* without Ex switch button, Ex signal lamp	IP66/IP67	460	650	750	200	380	526

List of certified Ex components.

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No.1	Ex components	ATEX Certificate
1	HL0105-series Ex switch button	CNEX 18 ATEX 0014 U II 2G Ex db IIC Gb II 2D Ex tb IIIC Db
2	HL0107-series Ex signal lamp	CNEX 18 ATEX 0015 U II 2G Ex db eb IIC Gb II 2D Ex tb IIIC Db
3	Safety barriers	CSANe 21 ATEX 2247X I (M1) [Ex ia Ma] I II (1) GD [Ex ia Ga] IIC [Ex ia Da] IIIC II 3(1) G Ex ec [ia Ga] IIC T4 Gc
4	Safety barriers	Baseefa 06 ATEX 0092X II 3 (1) G Ex ec nC [ia Ga] IIC T4 Gc II (1) D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I
5	Explosion-proof cable glands	TSP 21 ATEX 003086 0010 X II 2/3 GD Ex db IIC Gb Ex eb IIC Gb Ex nR IIC Gc Ex tb IIIC Db
6	Ex stopping plug	Presafe 18 ATEX 13604 U II 2 G Ex db IIC Gb or Ex eb IIC Gb II 1 D Ex ta IIIC Da

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[13]

SCHEDULE

[14]

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Test documents are listed in the test report nº
EX_EXD026_25_25-1706, EX_EXI007_25_25-1706, EX_EXT014_25_25-1706

[17]

Special conditions for safe use

1. Rated ambient temperature range:

Type	Ambient temperature
HLDP32-31/*/*	1) Enclosure material is Q235E: $-40 \leq Ta \leq +40/60^{\circ}\text{C}$ 2) Enclosure material is 304/316L, with Ex switch button, Ex signal lamp, safety barriers: $-40 \leq Ta \leq +40/60^{\circ}\text{C}$ 3) Enclosure material is 304/316L, without Ex switch button, Ex signal lamp, safety barriers: $-60 \leq$ $Ta \leq +40/60^{\circ}\text{C}$
HLDP32-39/*/*	
HLDP32-56/*/*	

2. The equipment shall not be installed in a location where the dust can accumulate, and shall not be installed in a location where the external conditions are conducive to the buildup of electrostatic charge on such surfaces. In addition, only should be cleaned with a damp cloth.

3. As the multiple options, related notices described in the instruction shall be followed. Refer to certificates and user manual of safety barrier for the information of I.S. parameters.

4. Repairs of the flameproof joints shall contact the manufacturer for detailed data and shall be made in compliance with the data provided by the manufacturer.

5. The fasteners used for fixing covers shall be at least A2-70.

6. Only high temperature-resistant cable can be used and shall not be less than 100°C (T6) or 130°C (T5/T4).

7. Separated certified cable glands or blanking elements, type of d and t, with minimum Group IIC and IIIC, EPL Gb and Db, corresponding IP code and cable service temperature, shall be used during the operation.

8. When the equipment is used in dust explosive atmospheres and install electrical modules (such as circuit breakers, contactors, thermal relay, etc.) which are intended for mains connection and intended to interrupt fault current, the allowed fault current shall not be more than 10kA.

9. Observe the warning:

“WARNING- DO NOT OPEN WHEN ENERGIZED!”

“WARNING- DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT!”

“WARNING- POTENTIAL ELECTROSTATIC CHARGING HAZARD- SEE INSTRUCTIONS!”

(only for Ex t) “CAUTION- USE FASTENERS WITH Property class A2-70!”

[18]

Essential Health and Safety Requirements
Are fulfilled by the harmonized standard

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[19] Documents and technical datasheets:

Title	Object	Revision	Date
HLDP32-31, 39, 56/*/* Explosion-proof electrical apparatus	DP32-00.1~00.9	Version 1.0	2024.12.03
Nameplate	DP32-00.1-1	Version 1.0	2024.12.03
Inner hexangular venting screw	DP32-00.1-4	Version 1.0	2024.12.03
Signboard	DP32-00.1-5	Version 1.0	2024.12.03
Cover	DP32-00.1-3	Version 1.0	2024.12.03
Cover	DP32-00.2-1	Version 1.0	2024.12.03
Cover	DP32-00.3-1	Version 1.0	2024.12.03
Cover	DP32-00.4-2	Version 1.0	2024.12.03
Cover	DP32-00.5-1	Version 1.0	2024.12.03
Cover	DP32-00.6-1	Version 1.0	2024.12.03
Cover	DP32-00.7-2	Version 1.0	2024.12.03
Cover	DP32-00.8-1	Version 1.0	2024.12.03
Cover	DP32-00.9-1	Version 1.0	2024.12.03
Shell	DP32-00.1-2	Version 1.0	2024.12.03
Shell	DP32-00.4-1	Version 1.0	2024.12.03
Shell	DP32-00.7-1	Version 1.0	2024.12.03
Welding entry	TJ-350~369	Version 1.0	2024.12.03
Sealing strip	TM-106	Version 1.0	2024.12.03
Earthing plate	TP-003	Version 1.0	2024.12.03
Earthing plate	TP-004	Version 1.0	2024.12.03
Ex scutcheon	TP-008	Version 1.0	2024.12.03
HL0107 Ex signal lamp	TZD-01	Version 1.0	2024.12.03
Control button	TZD-02	Version 1.0	2024.12.03
Moulded case circuit breaker handle	TZD-06	Version 1.0	2024.12.03
LHLC01-17 Ex operating mechanism	LC0112-00-8	Version 1.0	2024.12.03
Flameproof shaft	LC0117-01-1	Version 1.0	2024.12.03
Moulded case mechanism	LC0112-00-8-1	Version 1.0	2024.12.03
S3002 Handle	TZS-25	Version 1.0	2024.12.03
Instrument with key glass window	TZD-10	Version 1.0	2024.12.03
Glass	TZD-010-1	Version 1.0	2024.12.03
Instrument operating button	TZZ-03	Version 1.0	2024.12.03
Instrument lever	TJ-104	Version 1.0	2024.12.03

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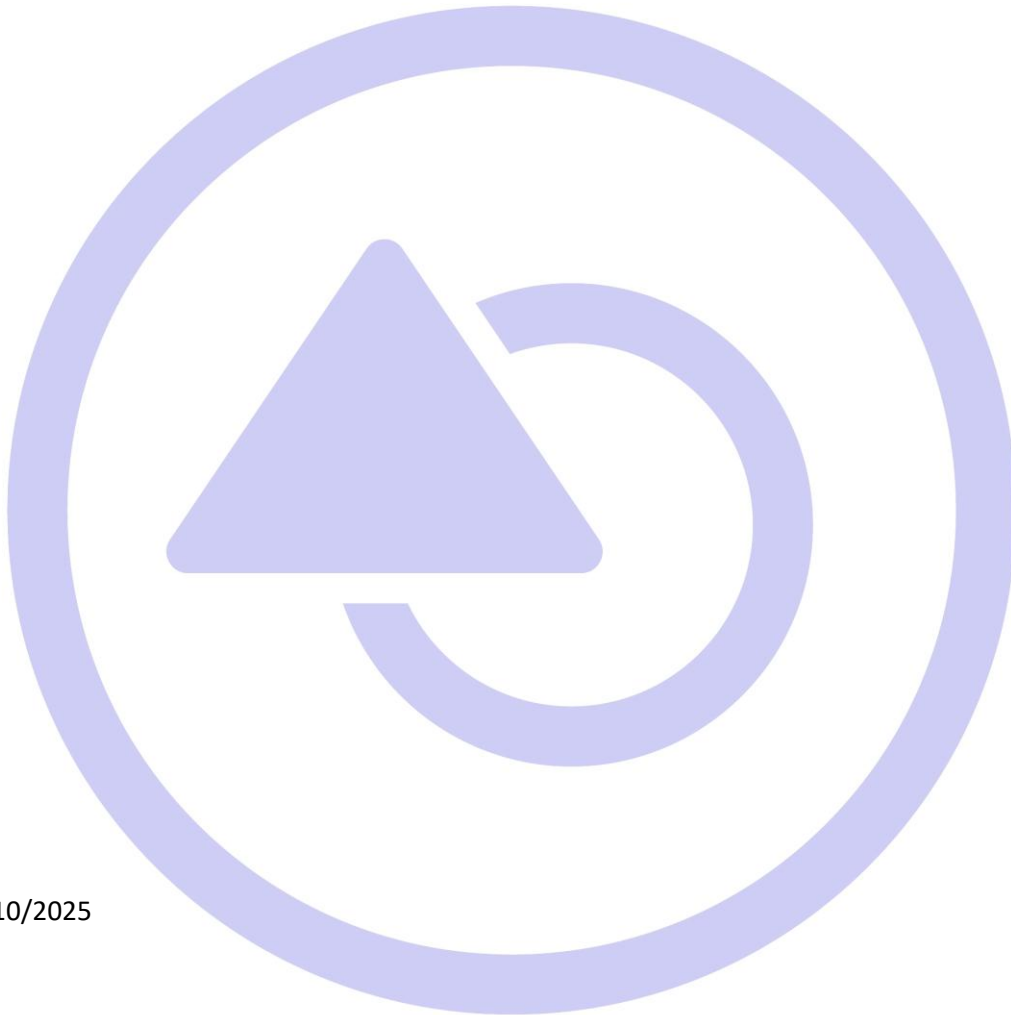
Instrument operating sleeve	TJ-010	Version 1.0	2024.12.03
Glass clamp	TJ-117-1	Version 1.0	2024.12.03
Miniature circuit breaker handle	TZD-15	Version 1.0	2024.12.03
LHLC01-12 Ex operating mechanism	LC0112-00-6	Version 1.0	2024.12.03
Flameproof shaft	LC0112-00-2-1	Version 1.0	2024.12.03
Flameproof shaft	TJ-102	Version 1.0	2024.12.03
Copper bushing	TJ-002	Version 1.0	2024.12.03
U-plate	LC0110-00-1A	Version 1.0	2024.12.03
U-plate	LC0110-00-1B	Version 1.0	2024.12.03
Shift fork module	LC0112-00-6-1	Version 1.0	2024.12.03
Instruction	SHL.511.059	Version 1.0	2024.12.03
Explosion-proof cable glands-ATEX Certificate	-	00	2021.4.28
Explosion-proof switch button-ATEX Certificate	-	1	2024.8.15
Explosion-proof signal lamp-ATEX Certificate	-	1	2024.8.20
Ex stopping plug-ATEX Certificate	-	0	2019.6.12
Safety barriers-ATEX Certificate	-	3	2022.4.14
Switch Amplifier-ATEX Certificate	-	4	2020.3.01
IECEX test report	IECEX Test report number: CN/CQM/ExTR25.0003/00 Testing Laboratory: Jiamusi Explosion-Proof Electric Machine Institute Co., Ltd. (JExM)	00	2025.6.6

The above-mentioned documents are strictly confidential and they are of only use of authorities.
A copy of the documents is saved by A.C.&E. Iberia S.L.

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[20] Certificate History

Certificate Number	Rev.	Comments	Date
ACE25ATEX045X	00	First emission	31/10/2025



Date: 31/10/2025



**Advanced Consulting and Engineering
Iberia SL**
Notified Body No NB3024

Matteo Marconi, CEO

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