



# 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](http://www.iecex.com)

Certificate No.: IECEX ITS 16.0043X Issue No: 2 Certificate history:  
Status: **Current** Issue No. 2 (2018-08-20)  
Date of Issue: **2018-08-20** Page 1 of 4 Issue No. 1 (2018-02-01)  
Applicant: **Bifold Fluidpower Ltd** Issue No. 0 (2016-06-21)  
Broadgate, Oldham Broadway Business Park, Broadway Business Park, Chadderton,  
Greater Manchester, OL9 9XA,  
**United Kingdom**  
Equipment: **BPS-30W, BPS-30W-RELAY, BPS-RELAY, BPS PH25W and BPS PH25W-Contactor**  
*Optional accessory:*  
Type of Protection: **Flameproof enclosures "Ex db"**  
Marking: Ex db IIB T6 Gb  
-40°C ≤ Tamb ≤ +60°C  
IECEX ITS 16.0043X

Approved for issue on behalf of the IECEX  
Certification Body:

A M Smart

Position:

Certification Officer

Signature:  
(for printed version)

Date:

2018/08/20

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:

**Intertek Testing & Certification Limited**  
ITS House, Cleeve Road,  
Leatherhead,  
Surrey, KT22 7SA  
United Kingdom





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Manufacturer: **Bifold Fluidpower Ltd**  
Broadgate, Oldham Broadway Business Park, Broadway Business Park, Chadderton, Greater Manchester,  
OL9 9XA, UK  
**United Kingdom**

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:

[GB/ITS/ExTR16.0044/00](#)

[GB/ITS/ExTR16.0044/01](#)

[GB/ITS/ExTR16.0044/02](#)

### Quality Assessment Report:

[GB/BAS/QAR07.0038/06](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The BPS-30W, BPS-30W-RELAY and BPS-RELAY comprises of an flameproof (Ex d) component certified cylindrical metallic enclosure (Certificate numbers: IECEX FTZU 10.0010U or IECEX FTZU 12.0017U.) The enclosure, incorporating a threaded lid, contains an electronic assembly. There are two electronic boards that can be arranged in three options: 1- BPS-30W– 110-240VAC to 24VDC 30W. PSU Board Only 2- BPS-30W-RELAY - 110-240VAC to 24VDC 30W. PSU Board and Relay Control Board 3- BPS-RELAY – Relay Control Board Only

BPS-3PH25W and BPS-3PH25W-Contactor comprises of a larger flameproof enclosure (Ex d) component certified cylindrical metallic enclosure (Certificate numbers: IECEX FTZU 11.0012U or IECEX KDB 13.0006U). The enclosure, incorporating a threaded lid, contains a rectifier PCB, terminal blocks, contactor and thermal overload relay and a transformer.

The flameproof enclosure is then either close coupled via a suitably certified cable gland / conduit stopper box to a sheet steel increased safety (Ex e) enclosure containing terminals for field and customer connections or supplied with a suitably certified cable gland/ conduit stopper box for remote customer termination (not covered by this certificate).

### SPECIFIC CONDITIONS OF USE: YES as shown below:

- Equipment certified Ex de IIB Gb or better entry devices shall be utilized when equipment is connected to the respective increased safety (Ex e) enclosure, as per description.
- The integral cables, when fitted, must be protected against impact and be terminated in a suitably certified enclosure.
- Equipment may contain fuses – Caution required when opening the equipment whilst energized.



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

### Issue 2

Temperature rise test carried out on BPS-3PH25W-contactor to award a T-Class of T6 instead of T5.

Change in Model number BPS-3PH30W-CONTACTOR models to BPS-3PH25W-CONTACTOR model to represent the wattage.

“Specific Conditions of Use” regarding branching point removed, following new temperature rise test data, amended choice of entry device and added one relating to integral cables.

Updated label, description, drawings and manual

### Issue 1

The new alternate model BPS-3PH30W-Contactor has a transformer, 3 phase contactor and AC/DC converter located inside the flameproof enclosure.

The use of a larger flameproof enclosure covered by Certificate numbers: IECEx FTZU 11.0012U or IECEx KDB 13.0006U.

### Annex:

[IECEX ITS IECEx ITS16.0043X Issue 2 20-Aug-18.pdf](#)

**Schedule for Certificate: IEC Ex ITS IECEX ITS16.0043X Issue 2**

**Manufacturer**

Bifold Fluidpower Ltd  
Broadgate, Oldham Broadway Business Park,  
Chadderton,  
Oldham,  
Greater Manchester,  
OL9 9XA, UK.

<b>Technical Documents</b>			
Title:	Drawing No.:	Rev. Level:	Date:
*BPS-3PH25W LABEL	0-SL0055/02	4	04.07.18
*BPS-3PH25W LABEL - WIDE	0-SL0055-78/02	1	05.07.18
General Arrangement	0-SC0030	0	03.11.17
*Bifold Power Supply (BPS) 30W and 3PH25W Operation, Installation and Maintenance Manual	ORM0018	5	20/08/2018
BPS-30W General Arrangement	0-SC0025	1	27.05.16
BPS-30W-RELAY General Arrangement	0-SC0022	1	27.05.16
BPS-RELAY General Arrangement	0-SC0024	1	27.05.16
Bifold Power Supply BPS- 30W-RELAY LABEL	0-SL0049/02	2	03.06.16

*Note: An \* is included before the title of documents that are new or revised.*