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2813
 0518

**Making Hazardous
 Environments Work**

**TYPE AFA33A AIR FILLED ADAPTOR 500 Amp
 3.3kV.**

Certification number Sira 00ATEX1191U Ex I M2 Ex db I Mb

The ATEX certificate carries the ATEX group and category marking: - I M2
 Where: I signifies suitability for use in mining and M2 signifies suitability for use in mines
 where it must be de-energised in the presence of an explosive atmosphere.

Certification number Sira 21UKEX1021U Ex I M2 Ex db I Mb

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TYPICAL LABEL

INTRODUCTION:

The Type AFA33A air filled gunmetal adaptor has been designed to accommodate 3 flexible or stranded coil end mains leads and a optional pilot lead. Termination of the cable can be made directly into the contact tubes or into a plug in adaptor pin, which are either grub screwed or crimped and capable of accepting conductors up to 185mm². The pilot tube is crimped can accommodate conductors up to 10mm².

The Type AFA33A adaptor can be connected to any half coupler with interface's designed to BS3454, however if this adaptor is used with a half coupler of a lower rating in the same system the lowest current rating must be adhered to.

For India only – The adaptor has been designed in accordance with IS/IEC 60079-0:2004 and IS/IEC 60079-1:2007. Test report number CIMFR/TC/C/H328.

To note:

- The component may be used with flammable gases with apparatus group I.
- The parameters 3.3Kv or 500A

GENERAL:

This fully assembled unit should have been supplied with both of the FLP flange faces protected. Care should be taken at all times to ensure that these faces, as well as the external and internal diameters of the insulator and its mating parts are not damaged during the cable make off or assembly. To enable cable this unit may have to be partially dismantled. This can be done by using the following tooling and instructions.

- 4 A/F socket wrench,
- 1 set of feeler gauges,
- M8 & M10 tubular spanners.

To note

- Installation shall be carried out by suitably-trained personnel in accordance with applicable code of practice for region.
- Inspection and maintenance of this equipment shall be carried out by suitably trained personnel in accordance with the applicable code of practice e.g. EN60079-17.
- Repair and maintenance of this equipment shall be carried out by suitably trained personnel in accordance with the applicable code of practice EN 60079-19.
- The certification of this component relies upon the following materials used in its construction. Enclosure Body: Gunmetal. Insulator: Moulded Plastic.
- It is the end user responsibility to ensure the equipment and approval markings are suitable for the intended application.
- Refer to nameplate for certification markings.

PREPARING THE ADAPTOR:

1. Before commencing work ensure that the immediate area is free from any objects that may cause damage to any FLP faces. Using suitable spanners, remove the cable ties, 4 M8 hexagon head screws, nuts and the cardboard protection plates from both flanges.
2. Using a tubular key remove the 3 slotted retaining rings that hold the contact tubes into the insulator and remove them from the insulator. If using adaptor pins for cable termination the contact tubes do not have to be removed from the insulator assembly.
3. The insulator can be removed by unscrewing the 3 socket head shoulder screws using a socket wrench and carefully withdrawing the insulator from the adaptor body. If the insulator is fitted with a pilot tube this may be left in the insulator for cable termination at the final assembly stage.

SCHEDULE OF LIMITATIONS:

1. The component is only certified for use in ambient temperatures in the range -20°C to +40°C and should not be used outside this range.
2. The Type AFA33A Air Filled Straight Adaptor is to be secured to associated apparatus with FOUR, M8 x 1.25 x 50 lg hexagonal head fasteners. The fastener screws are of grade 8.8 MIN. and used in conjunction with grade 8.0 nuts.
3. All flameproof joints are not intended to be repaired

CABLE PREPARATION AND FITTING TO CONTACT TUBES/ADAPTOR PINS:

1. Remove 25mm of the insulating material from each of the 3 mains coil end leads and if fitted, 12mm from the pilot leads. The coil end leads can now be attached to either the contact tube or the adaptor pin depending on which adaptor has been supplied. This can be done by either crimping or by clamping using the four set screws. If crimping, the crimp should be made between the two radial bands. If the contact tubes are fitted with set screws, these should be positioned radially to allow easy access to the set screws when they are located into the insulator.
2. Please note the Indenter and Nest dies on the Powerteam SPX and BICC crimp tools are inter-changeable.
3. If a pilot tube is fitted, termination can be made by either crimping directly into the pilot contact tubes, alternatively by crimping the bullet connectors onto the cable ends at the final assembly stage.

Conductor Size	PRYSMIAN Crimp Tool – G10		Powerteam SPX Crimp Tool - CT12-HHT-B		Klauke Crimp Tool K09 Hex. Die No.	Cembre Crimp Tool HT45-E Hex. Die Set
	Indenter Die	Nest Die	Indenter Die	Nest Die		
16mm ²	Up 35-70 CP1-U10AD-1	UN70C	PA24-C	ME14-C	50	ME14
25mm ²	"	"	PA24-C	ME14-C	50	ME14
35mm ²	"	"	PA24-C	ME14-C	50	ME14
50mm ²	Up 75-300 CP1-U10AD-1	UN150C	PA48-C	ME30-C		
70mm ²	"	"	PA48-C	ME30-C		
95mm ²	"	"	PA48-C	ME30-C		
120mm ²	"	"	PA48-C	ME30-C		
150mm ²	"	"	PA48-C	ME30-C		
185mm ²	"	UN185C	PA48-C	ME37-C		

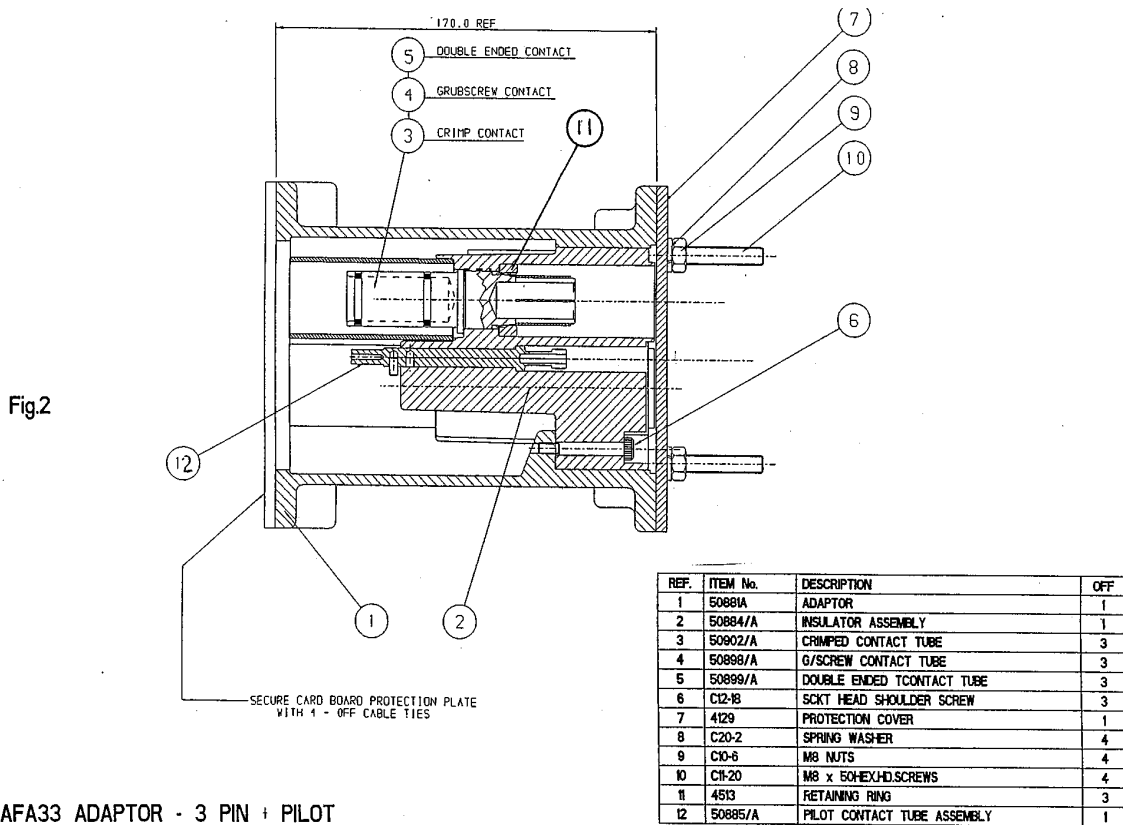
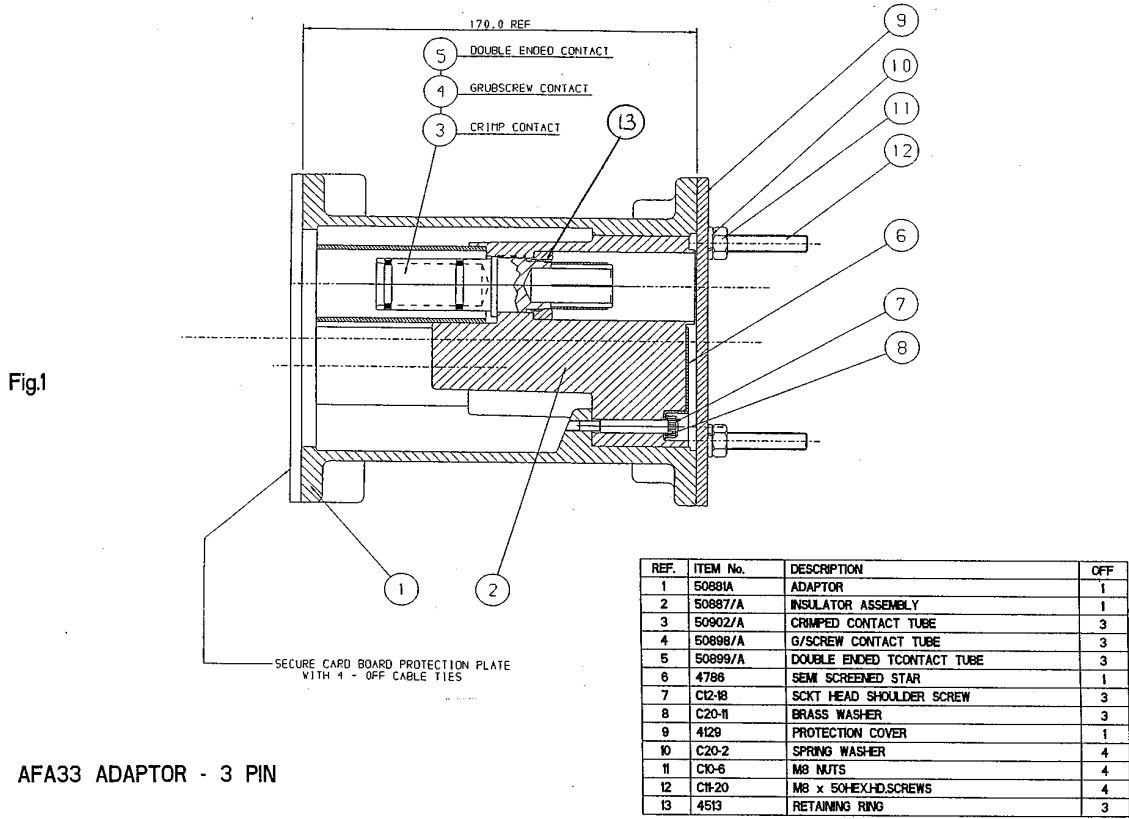
ASSEMBLY:

During assembly it is extremely important that all FLP faces on the adaptor, insulator and contact tubes are free from any objects that may damage them during the final assembly stage and invalidate the flame-proofness of this unit.

1. The contact tubes with attached leads, along with the pilot lead, if fitted, should be passed through the rear of the adaptor body.
2. The adaptor body can now be attached to its mating flange by tightening the 4 – M8 hexagon head screws using a suitable spanner.
3. The contact tubes can now be assembled into the insulator ensuring that the flat on the contact tube aligns with the flat on the insulator bores.
4. The contact tubes can now be fastened into the insulator using the retaining rings.
5. If a pilot tube is fitted, termination of the cable can be made either by, crimping directly into the pilot tube or into the bullet connectors. These bullet connectors are a push fit into the back of the pilot tube.
6. The insulator assembly can now be located into the adaptor body and fastened into position using the 3 socket head shoulder screws.
7. If using adaptor pins these can be plugged directly into the fully assembled adaptor.

MAINTENANCE

All parts of the AFA33A adaptor range are available as spares. These can be ordered using the parts list shown in Fig 1 and 2. The adaptor pin Ref No. 50900, which is used on the plug in style can be supplied either pilot bored or pre-drilled to suit cable requirements.



HEALTH AND SAFETY AT WORK etc. ACT 1974

In the United Kingdom all equipment must be installed, operated and disposed of (as required) within the legislative requirements of the Health and Safety at Work etc. Act 1974. Leaflet No. HSS L1 refers to the Company's obligation and is available on request.

It is the responsibility of the user to select, install, operate and maintain the equipment in accordance with the relevant legislation and appropriate code of practice.



EU Only

Prices and design are subject to alteration without notice. All products are sold subject to our conditions of sale, copies of which are available on request.

We reserve the right to change characteristics of our products. All data is for guidance only

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UK Attestation of Conformity




Victor®
Victor Products Ltd
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United Kingdom

TYPE AFA33A AIR FILLED ADAPTOR 500 Amp 3.3kV.

Certification number Sira 21UKEX1021U  I M2 Ex db I Mb

Victor Products Ltd

Hereby declare our sole responsibility that the product which is the subject of this attestation is in conformity with the following standards or normative documents.

Number and date of standard	UK Legislation
EN IEC 60079-0:2018+AC:2020 EN60079-1:2014	Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres Regulations 2016
EN50082 (1992) EN55015 (1993) EN 60555-2 (1987)	89/336 EEC: Electromagnetic Compatability
Notified Body: Sira Certification Services CSA Group Deeside CH5 3US Notified Body No. 0518	 P. Devlin Operations Manager January 2024

SERIAL NUMBER

Attestation of Conformity

Attestation de Conformité
Konformitätsbescheinigung



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Erklären in alleiniger Verantwortung, daß das Product auf das sich diese Bescheinigung bezieht, mit der/den folgenden Norm(en) oder normativen Dokumenten Ubereinstimmt.

Déclarons de notre seule responsabilité, que le produit auquel cette attestation se rapporte, est conforme aux norme(s) ou aux documents normatifs suivants.

Number and date of standard Nr. Sowie Ausgabedatum der Norm No. Ainsi que date d'émission des normes.	Directive description Bestimmungen der Richtlinie Prescription de la directive
EN IEC 60079-0:2018+AC:2020 EN60079-1:2014	Equipment and protective systems intended for use in potentially explosive atmospheres. This Attestation is valid for directive 2014/34/EU. Geräte und Schutzsysteme zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen. Diese Bescheinigung gilt für die Richtlinie 2014/34 /EU. Appareils et systèmes de protection destinés à être utilisés en atmosphères explosibles. Cette Attestation est valable pour la directive 2014/34 /UE.
EN50082 (1992) EN55015 (1993) EN 60555-2 (1987)	89/336 EEC: Electromagnetic Compatability 89/336 EWG: Elektromagnetische Verträglichkeit 89/336 CEE: Compatabilité électromagnétique
Notified Body: CSA Group Netherlands B.V. Notified Body No. 2813	 P. Devlin Operations Manager January 2024

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