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Making Hazardous Environments Work

TYPE AFA66A AIR FILLED ADAPTOR 500 Amp 6.6kV.

Certification number SIRA00ATEX1192U  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 21UKEX1022U  I M2 Ex db I Mb The certificate carries the 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.

 Victor Products Ltd. South Shields. NE33 5SQ U.K.	
TYPE AFA66A Sira 00ATEX1192U	2813
 I M2 Ex db I Mb	
TYPE AFA66A Sira 21UKEX1022U	0518
DO NOT SEPARATE WHEN ENERGIZED.	
6600 VOLT 500 AMP IP54	SERIAL No.

TYPICAL LABEL

INTRODUCTION:

The Type AFA66A air filled gunmetal adaptor has been designed to accommodate 3 flexible or stranded coil end mains leads and up to 7 auxiliary/pilot leads. Termination of the cable can be made directly into the contact tubes or into a plug in adaptor pin, both of which are either grubscribed or crimped and capable of accepting conductors up to 185mm². The pilots which are crimped can accommodate conductors up to 10mm².

The Type AFA66A adaptor can be connected to any half coupler with interface's designed to BS3905, 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.

To note:

- The component may be used with flammable gases with apparatus group 1.
- The parameters 6.6kV or 500A.

GENERAL:

This fully assembled unit should have been supplied with both of the hexagonal 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,
M10 & M12 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, 6 M10 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.
3. The insulator can be removed by unscrewing the 3 – M5 socket head shoulder screws using a socket wrench and carefully withdrawing the insulator from the adaptor body. If the insulator is fitted with pilot tubes these may be left in for cable termination at the final assembly stage.

SCHEDULE OF LIMITATIONS:

1. The component is only certified for use in an ambient temperatures range -20°C to +40°C and should not be used outside this range.
2. The Type AFA66A Air Filled Straight Adaptor is to be secured to associated apparatus with six, M10 x 1.25 LH side and six M12 x 1.5 hexagonal head fasteners RH side. 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
4. All mounting fasteners shall be manufactured from a material that contains a suitable metallic composition of magnesium, titanium and zirconium (<7.5%, in total by mass), and aluminium, magnesium, titanium and zirconium (<15% in total by mass).

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.
2. The coil end leads can now be attached to either the contact tube or the adaptor pin depending on which method is being used. 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.
3. If pilot tubes are 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.

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 flameproofness of this unit.

1. For assembly direct to the switchgear, the contact tubes and attached leads, along with the pilot leads, if fitted, should be passed through the rear of the adaptor body.
2. The adaptor body can now be attached to its mating flange on the switchgear by tightening the 6 - M12 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 pilot tubes are fitted, termination of the cable can be made either by, crimping directly into the pilot contact tubes or onto 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.

MAINTENANCE:

All parts on the AFA66A 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.

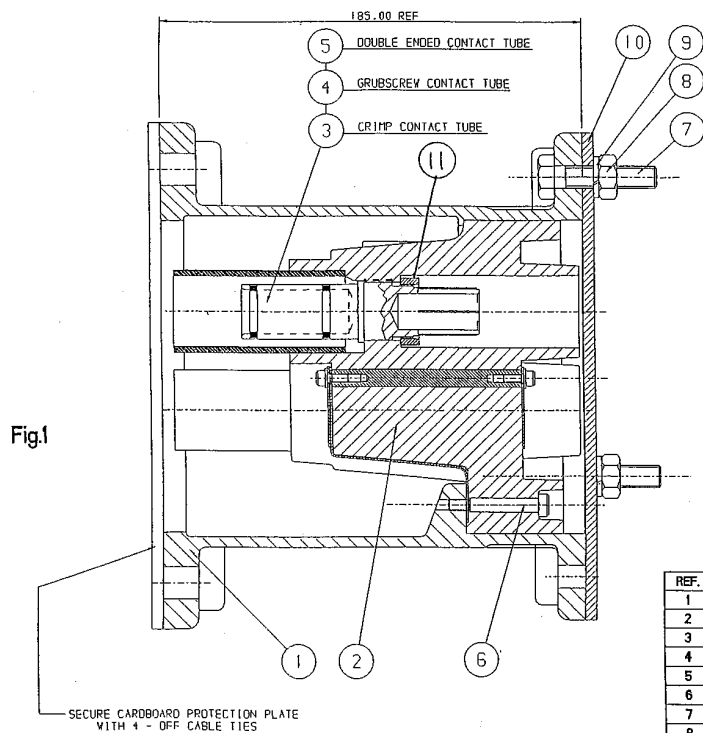
It is the responsibility of the user to select, install, operate and maintain the equipment in accordance with the relevant legislation and appropriate code of practice.



EU Only

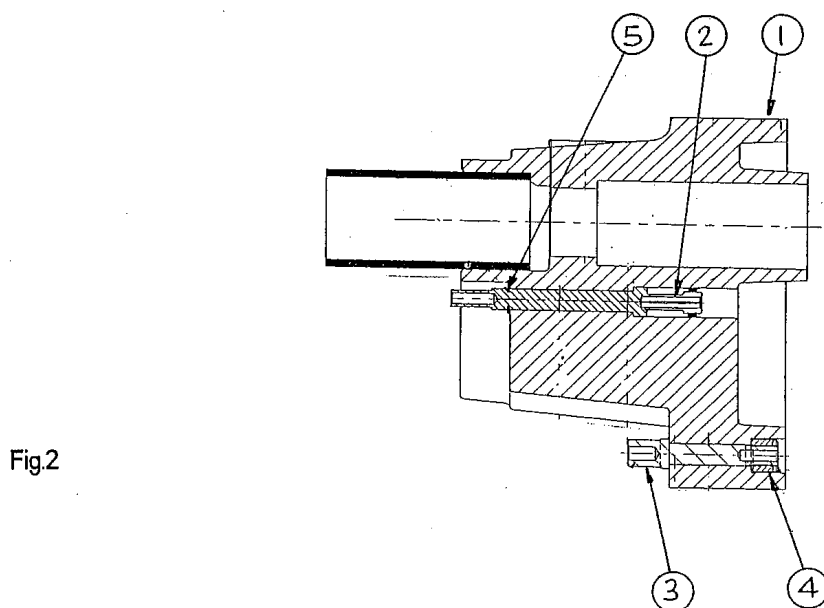
Prices and design are subject to alteration without notice. All products are sold subject to our conditions of sale, copies of which are available on request.

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



AFA66 ADAPTOR - 3 PIN

REF.	ITEM No.	DESCRIPTION	OFF
1	50882	ADAPTOR	1
2	50903/A	INSULATOR ASSEMBLY	1
3	50902/A	CRIMPED CONTACT TUBE	3
4	50898/A	G/SCREW CONTACT TUBE	3
5	50899/A	DOUBLE ENDED TCONTACT TUBE	3
6	C12-18	SOCKET HEAD SHOULDER SCREW	3
7	C11-9	M10 x 45 LONG HEX HD. SCREWS	6
8	C10-7	M10 NUTS	6
9	C20-12	M10 SPRING WASHER	6
10	4328	PROTECTION COVER	1
11	4513	RETAINING RING	3



ALL CONTACT TUBES MUST BE FITTED PRIOR TO ASSEMBLY INTO THE ADAPTOR BODY.

AFA66 ADAPTOR INSULATOR WITH CENTRE PILOT AND AUXILLIARY TUBES.

REF.	ITEM No.	DESCRIPTION	OFF
1	50917	INSULATOR	1
2	124787	PILOT CONTACT TUBE	1
3	124774	AUXILIARY CONTACT TUBE	UPTO 6
4	124775	RETAINING RING	UPTO 6
5	C21-9	CIRCLIP	1

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UK Attestation of Conformity



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NE33 5SQ
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TYPE AFA66A AIR FILLED ADAPTOR 500 Amp 3.3kV.

Certification number Sira 21UKEX1022U  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
EN60079-0:2018+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 Compatibility
Notified Body: Sira Certification Services CSA Group Deeside CH5 3US Notified Body No. 0518	 H. Davis Engineering & Quality Manager September 2023

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 Übereinstimmt.

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
EN60079-0:2018+: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 Compatibility 89/336 EWG: Elektromagnetische Verträglichkeit 89/336 CEE: Compatibilité électromagnétique
Notified Body: CSA Group Netherlands B.V. Notified Body No. 2813	 P.Devlin Operations Manager November 2023

SERIAL NUMBER