Draft for Public Comment

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Responsible committee: ACE/6 Aerospace avionic electrical and fibre optic technology

Interested committees:

Title: Draft BS EN AFCB-1P-005 Aerospace series - Arc Fault Circuit breakers, single-pole, temperature compensated, rated current 3 A to 25 A, 115Vac 400 Hz

Part 005: With polarized signal contact - Product standard (8.2100.005)

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Introduction

This draft standard is based on European discussions in which the UK has taken an active part. Your comments on this draft are welcome and will assist in the preparation of the consequent British Standard. Comment is particularly welcome on national, legislative or similar deviations that may be necessary.

Even if this draft standard is not approved by the UK, if it receives the necessary support in Europe, the UK will be obliged to publish the official English Language text unchanged as a British Standard and to withdraw any conflicting standard.

UK Vote

Please indicate whether you consider the UK should submit a negative (with reasons) or positive vote on this draft.

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Template for comments and secretariat observations

Date: xx/xx/20xx	Document: **ISO/DIS xxxx**

1	2	(3)	4	5	(6)	(7)
MB	**Clause No./ Subclause No./Annex** (e.g. 3.1)	**Paragraph/ Figure/ Table/Note**	**Type of com-ment**	**Commend (justification for change) by the MB**	**Proposed change by the MB**	**Secretariat observations on each comment submitted**
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	

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ASD STANDARD
NORME ASD
ASD NORM

prEN AFCB-1P
005Edition P3
June 2013

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ICS: 49.060

Supersedes edition
June 1999

Descriptors:

ENGLISH VERSION

Aerospace series
Arc Fault Circuit breakers, single-pole,
temperature compensated,
rated current 3 A to 25 A, 115Vac 400 Hz
Part 005: With polarized signal contact
Product standard

Série Aérospatiale
Disjoncteurs unipolaires à détection d'arc
Compensés en température,
Intensités nominales 3 A á 25 A, 115 Vac 400 Hz
Partie 005: Avec contact de signalisation polarisé,
Norme de produit

Luft- und Raumfahrt
Lichtbogenfehler Schutzschalter, einpolig,
Temperaturkompensiert,
Nennströme von 3 A bis 25 A 115Vac 400 Hz
Teil 005: Mit polarisiertem Signalkontakt
Produktnorm

This "Aerospace Series" Prestandard has been drawn up under the responsibility of ASD-STAN (The European Association of Aerospace Industries - Standardization). It is published on green paper for the needs of the European Aerospace Industry. It has been technically approved by the experts of the concerned Domain following member comments.

Subsequent to the publication of this Prestandard, the technical content shall not be changed to an extent that interchangeability is affected, physically or functionally, without re-identification of the standard.

After examination and review by users and formal agreement of ASD-STAN it will be submitted as a draft European Standard to CEN (European Committee for Standardization) for formal vote.

Edition approved for publication	Comments should be sent within six months after the date of publication to ASD-STAN	Electrical Domain

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Foreword

This standard was reviewed by the Domain Technical Coordinator of ASD-STAN's Electrical Domain.

After inquiries and votes carried out in accordance with the rules of ASD-STAN defined in ASD-STAN's General Process Manual, this standard has received approval for Publication.

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1 Scope

This standard specifies the required characteristics for single-pole, arc fault circuit breakers rated currents from 3 A to 25 A, switching capacity 65 *I*n, for use in aircraft electrical systems. Their operating temperatures are between –40 °C to +85 °C at a maximum altitude of Z = 15000 m. The thermal protection is temperature compensated and operates between -55°C and +125°C.

These circuit breakers are operated by a push-pull type single pushbutton (actuator), with delayed action "trip-free" tripping

They will continue to function up to the short-circuit current.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

prEN AFCB-1P-001:	Aerospace series – Arc fault Circuit breakers, single-pole, temperature compensated, rated current from 3 A to 25 A, 115 Vac 400Hz constant frequency - Part 001: Technical specification [1)]
EN 3773-001,	*Aerospace series – Circuit breakers, single-pole, temperature compensated, rated current 1 A to 25 A – Part 001: Technical specification*
EN 3841-100,	*Aerospace series – Circuit breakers – Test Methods – Part 100: General*
EN 3841-305,	*Aerospace series – Circuit breakers – Test methods – Part 305: Short-circuit performance* [1)]
EN 6113,	*Aerospace series – Circuit breaker, connecting and attachment hardware* [1)]
TR 6083,	*Aerospace series – Cut-outs for installation of electrical components* [2)]
FED-STD-595B	Colours used in Government Procurement
AS 5692	Aerospace Standard Arc Fault Circuit Breaker (AFCB) Aircraft, Trip-Free, Single Phase and Three Phase 115Vac-400Hz – Constant Frequency

3 Terms and definitions

For the purpose of this document, the terms and definitions given in EN2350 apply.

1) In preparation at the date of publication of this standard

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