



Airworthiness Directive

AD No.: 2023-0181

Issued: 13 October 2023

Note: This Airworthiness Directive (AD) is issued by EASA, acting in accordance with Regulation (EU) 2018/1139 on behalf of the European Union, its Member States and of the European third countries that participate in the activities of EASA under Article 129 of that Regulation.

This AD is issued in accordance with Regulation (EU) 748/2012, Part 21.A.3B. In accordance with Regulation (EU) 1321/2014 Annex I Part M.A.301, or Annex Vb Part ML.A.301, as applicable, the continuing airworthiness of an aircraft shall be ensured by accomplishing any applicable ADs. Consequently, no person may operate an aircraft to which an AD applies, except in accordance with the requirements of that AD, unless otherwise specified by the Agency [Regulation (EU) 1321/2014 Annex I Part M.A.303, or Annex Vb Part ML.A.303, as applicable] or agreed with the Authority of the State of Registry [Regulation (EU) 2018/1139, Article 71 exemption].

Design Approval Holder's Name:

ATR-GIE AVIONS DE TRANSPORT REGIONAL

Type/Model designation(s):

ATR 42 and ATR 72 aeroplanes

Effective Date: 27 October 2023

TCDS Number(s): EASA.A.084

Foreign AD: Not applicable

Supersedure: None

ATA 24 – Electrical Power – Direct Current Emergency Electrical Network Contactor 1PA – Operational Test

Manufacturer(s):

ATR-GIE Avions de Transport Régional, formerly EADS ATR - Alenia, Aerospatiale Matra ATR - ALENIA, Aerospatiale - Alenia, Aerospatiale - Aeritalia

Applicability:

ATR 42-200, ATR 42-300, ATR 42-320, ATR 42-400 and ATR 42-500 aeroplanes, all manufacturer serial numbers (MSN), except those on which ATR modification (mod) 05948 has been embodied in production; and

ATR 72-101, ATR 72-102, ATR 72-201, ATR 72-202, ATR 72-211, ATR 72-212 and ATR 72-212A aeroplanes, all MSN, except those on which ATR mod 05948 has been embodied in production.

Definitions:

For the purpose of this AD, the following definitions apply:

The AOM: ATR Airworthiness Operators Message (AOM) 2022/04 Issue 3.

Affected part: Contactors, having Functional Item Number (FIN) 1PA.



Reason:

One event of electrical failure has been reported on a pre-mod 05948 aeroplane. Further analysis revealed that the affected part has failed with its contacts in intermediate position. This failure could be a potential contributor to the reported occurrence. Investigation is still on-going to fully understand the root cause.

This condition, if not detected and corrected, could lead to temporary loss of direct current emergency electrical network and loss of control of the aeroplane.

To address this potential unsafe condition, ATR issued the AOM to provide inspection instructions.

For the reasons described above, this AD requires repetitive operational tests of the affected part, and, depending on findings, accomplishment of applicable corrective action(s).

Required Action(s) and Compliance Time(s):

Required as indicated, unless accomplished previously:

Repetitive Operational Test:

- (1) Within 2 months after the effective date of this AD, and, thereafter, at intervals not exceeding 1 000 flight hours, accomplish operational test of the affected part in accordance with the instructions of the AOM.

Corrective Action(s):

- (2) If, during any operational test as required by paragraph (1) of this AD, discrepancies are detected as identified in the AOM, before next flight, accomplish the applicable corrective action(s) in accordance with the instructions of the AOM.

Terminating Action:

- (3) None.

Credit:

- (4) Tests and corrective actions on an aeroplane, accomplished before the effective date of this AD in accordance with the instructions of the ATR AOM 2022/04 Issue 2, are acceptable to comply with the initial requirements of paragraphs (1) and (2) of this AD for that aeroplane.

Ref. Publications:

ATR AOM 2022/04 Issue 2 dated 07 September 2023, or Issue 3 dated 21 September 2023.

The use of later approved revisions of the above-mentioned document is acceptable for compliance with the requirements of this AD.

Remarks:

1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.
2. This AD was posted on 13 September 2023 as PAD 23-101 for consultation until 27 September 2023. The Comment Response Document can be found in the [EASA Safety Publications](#)



[Tool](#), in the compressed (zipped) file attached to the record for this AD.

3. Enquiries regarding this AD should be referred to the EASA Safety Information Section, Certification Directorate. E-mail: ADs@easa.europa.eu.
4. Information about any failures, malfunctions, defects or other occurrences, which may be similar to the unsafe condition addressed by this AD, and which may occur, or have occurred on a product, part or appliance not affected by this AD, can be reported to the [EU aviation safety reporting system](#). This may include reporting on the same or similar components, other than those covered by the design to which this AD applies, if the same unsafe condition can exist or may develop on an aircraft with those components installed. Such components may be installed under an FAA Parts Manufacturer Approval (PMA), Supplemental Type Certificate (STC) or other modification.
5. For any question concerning the technical content of the requirements in this AD, please contact: ATR - GIE Avions de Transport Régional, Continued Airworthiness Service, Telephone: +33 (0)5 62 21 62 21, Fax: +33 (0) 5 62 21 67 18; E-mail: continued.airworthiness@atr-aircraft.com.

