



National Standards Authority of Ireland

ECE TYPE-APPROVAL CERTIFICATE

Communication concerning the approval granted
of an electrical/electronic sub-assembly with regard to
Regulation No.10.




Approval No: ***E24 10R-020389***

Extension No: *N/A.*

Reason for extension:

N/A.

1. Make (trade name of manufacturer): ***Sauer-Danfoss.***
2. Type and general commercial description: ***MC 024 020 00000
Output module.***
3. Means of identification of type, if marked on the component: ***10105518***
- 3.1 Location of that marking: ***On the bottom of housing of the unit.***
4. Category of vehicle: ***See Appendix.***
5. Name and address of manufacturer: ***Sauer-Danfoss,
3500 Annapolis Lane North,
Plymouth, MN 55447,
USA.***
6. In the case of components and separate technical units,
location and method of affixing of the ECE approval mark: ***On the bottom of housing of the
unit. Incorporated into a label.***
7. Address(es) of assembly plant(s): ***Sauer-Danfoss,
3500 Annapolis Lane North,
Plymouth, MN 55447,
USA.***

8. Additional information (where applicable): **See appendix.**
9. Technical service responsible for carrying out the tests: **TÜV SÜD AUTOMOTIVE GMBH,
Ridlerstraße 57,
D-80339 München,
Germany.**
10. Date of test report: **20.02.2008.**
11. Number of test report: **08-00024-ES-MUC-00**
12. Remarks (if any): **See Appendix .**
13. Place: **Dublin.**
14. Date: **26th February 2008.**
15. Signature: 
16. The index to the information package lodged with the approval authority, which may be obtained on request is attached.
- 16.1 Documentation: **53 Pages.**



Appendix

to type-approval communication concerning the type approval
of an electrical/electronic sub-assembly under Regulation No.10.

- | | | |
|-------|---|--|
| 1. | Additional information | |
| 1.1. | Electrical system rated voltage: | <i>12/24 volts nominal.</i> |
| 1.2. | This ESA can be used on any vehicle type with the following restrictions: | <i>All vehicles with a 12V/24V nominal electrical system and battery negative on the body.</i> |
| 1.2.1 | Installation conditions, if any: | <i>See manufacturer's specifications.</i> |
| 1.3. | This ESA can only be used on the following vehicle types: | <i>N/A.</i> |
| 1.3.1 | Installation conditions, if any: | <i>N/A.</i> |
| 1.4. | The specific test method(s) used and the frequency ranges covered to determine immunity were: | <i>Free filed substitution Method (20MHz – 1000MHz).</i> |
| 1.5. | Approved/accredited laboratory responsible for carrying out the tests: | <i>TÜV SÜD AUTOMOTIVE GMBH.</i> |
| 2. | Remarks: | <i>N/A.</i> |

Appendix to type-approval communication concerning the
type approval of a vehicle under Regulation No.10.

- | | | |
|----|---|-------------|
| 1. | Additional information | |
| 2. | Special devices for the purpose of Annex 4 to this Regulation: | <i>N/A.</i> |
| 3. | Electrical system rated voltage: | <i>N/A.</i> |
| 4. | Type of bodywork: | <i>N/A.</i> |
| 5. | List of electronic systems installed in the tested vehicle(s) not limited to the items in the information document: | <i>N/A.</i> |
| 6. | Approved/accredited laboratory (for the purpose of this Regulation) responsible for carrying out the tests: | <i>N/A.</i> |
| 7. | Remarks: | <i>N/A.</i> |