ISO 8528-13:2026-03 (E)

Reciprocating internal combustion engine driven alternating current generating sets - Part 13: Safety

Contents

Page

Foreword ..... **v**

Introduction ..... **vi**

1 Scope **1**

2 Normative references **1**

3 Terms and definitions **3**

4 Safety requirements and/or protective/risk reduction measures and verification **5**

4.1 General 5
4.2 Starting system 5
4.2.1 Requirements 5
4.2.2 Verification 5
4.3 Stopping 5
4.3.1 Requirements 5
4.3.2 Verification 6
4.4 Emergency stopping 6
4.4.1 Requirements 6
4.4.2 Verification 6
4.5 Control devices 7
4.5.1 Design, safety and mechanical strength 7
4.5.2 Identification 8
4.5.3 Accessibility 8
4.6 Monitoring devices 8
4.6.1 Requirements 8
4.6.2 Verification 9
4.7 Warning devices 9
4.7.1 Requirements 9
4.7.2 Verification 9
4.8 Guarding 9
4.8.1 General 9
4.8.2 Guarding against mechanical hazards 10
4.8.3 Guarding against hot surfaces 10
4.9 Stability for low power generating sets 18
4.9.1 Not in operation 18
4.9.2 In operation 18
4.10 Lighting 18
4.10.1 Requirements 18
4.10.2 Verification 18
4.11 Handling 18
4.11.1 Requirements 18
4.11.2 Verification 19
4.12 Mechanical strength 19
4.12.1 Requirements 19
4.12.2 Verification 19
4.13 Fire protection 20
4.13.1 General 20
4.13.2 Requirements 20
4.13.3 Verification 20
4.14 Hoses, pipes, and electrical harnesses of the RIC engine 20
4.14.1 Requirements 20

4.14.2 Verification 21
4.15 Electrical equipment 21
4.15.1 General 21
4.15.2 Degree of protection 21
4.15.3 Insulation 24
4.15.4 Protective bonding circuit 24
4.15.5 Other electrical equipment 26
4.16 Noise 26
4.16.1 Requirements 26
4.16.2 Verification 26
4.17 Access systems 26
4.17.1 Requirements 26
4.17.2 Verification 26
4.18 Access to service points 27
4.18.1 Requirements 27
4.18.2 Verification 27
4.19 Gaseous and particulate exhaust emissions 27
4.19.1 Requirements 27
4.19.2 Verification 27
4.20 Drainage 27
4.20.1 Requirements 27
4.20.2 Verification 27
5 Information for use 27
5.1 Operating and maintenance instruction 27
5.1.1 Requirements 27
5.1.2 Verification 29
5.2 Safety labels 29
5.2.1 Requirements 29
5.2.2 Verification 29
5.3 Marking 30
5.3.1 Requirements 30
5.3.2 Verification 30
Annex A (normative) **List of significant hazards 31**
Annex B (normative) **Application of IEC 60204-1:2016/A1:2021 for generating sets 33**
Annex C (normative) **Application of IEC 60204-11:2018 for generating sets 42**
Annex D (normative) **Instruction manual — Safety guide — Additional requirements for low-power generating sets for use by layperson 47**
Bibliography 49