

DIN EN ISO 8528-13:2017-03 (E)

Reciprocating internal combustion engine driven alternating current generating sets - Part 13: Safety (ISO 8528-13:2016, Corrected version 2016-10-15)

Contents		Page
European foreword		4
Foreword		5
1	Scope	7
2	Normative references	7
3	Terms and definitions	9
4	General	11
5	Hazards	11
6	Safety requirements and tests	11
6.1	General	11
6.2	Starting system	11
6.2.1	Requirements	11
6.2.2	Verification	12
6.3	Stopping	12
6.3.1	Requirements	12
6.3.2	Verification	12
6.4	Emergency stopping	13
6.4.1	Requirements	13
6.4.2	Verification	13
6.5	Control devices	13
6.5.1	Design, safety and mechanical strength	13
6.5.2	Identification	14
6.5.3	Accessibility	14
6.6	Monitoring devices	15
6.6.1	Requirements	15
6.6.2	Verification	15
6.7	Warning devices	15
6.7.1	Requirements	15
6.7.2	Verification	15
6.8	Guarding	15
6.8.1	General	15
6.8.2	Guarding against mechanical hazards	16
6.8.3	Guarding against hot surfaces	16
6.9	Stability for low power generating sets	20
6.9.1	Not in operation	20
6.9.2	In operation	21
6.10	Lighting	21
6.10.1	Requirements	21
6.10.2	Verification	21
6.11	Handling	21
6.11.1	Requirements	21
6.11.2	Verification	22
6.12	Mechanical strength	22
6.12.1	Requirements	22
6.12.2	Verification	22

6.13	Fire protection.....	23
	6.13.1 General.....	23
	6.13.2 Requirements.....	23
	6.13.3 Verification.....	23
6.14	Hoses, pipes and electrical harnesses of the RIC engine.....	23
	6.14.1 Requirements.....	23
	6.14.2 Verification.....	24
6.15	Electrical equipment.....	24
	6.15.1 Generating sets.....	24
	6.15.2 Other electrical equipment.....	26
6.16	Noise.....	26
	6.16.1 Requirements.....	26
	6.16.2 Verification.....	26
6.17	Access systems.....	26
	6.17.1 Requirements.....	26
	6.17.2 Verification.....	26
6.18	Access to service points.....	26
	6.18.1 Requirements.....	26
	6.18.2 Verification.....	26
6.19	Gaseous and particulate exhaust emissions.....	27
	6.19.1 Requirements.....	27
	6.19.2 Verification.....	27
6.20	Drainage.....	27
	6.20.1 Requirements.....	27
	6.20.2 Verification.....	27
7	Operating and maintenance instructions.....	27
	7.1 Requirements.....	27
	7.2 Verification.....	28
8	Safety labels.....	28
	8.1 Requirements.....	28
	8.2 Verification.....	29
9	Marking.....	29
	9.1 Requirements.....	29
	9.2 Verification.....	30
	Annex A (normative) List of hazards.....	31
	Annex B (normative) Application of IEC 60204-1:2009 for generating sets.....	33
	Annex C (normative) Instruction manual — Safety guide additional requirements for low-power generating sets for use by laymen.....	45
	Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC.....	47
	Bibliography.....	48