

ISO 8528-4:2005-06 (E)

Reciprocating internal combustion engine driven alternating current generating sets - Part 4: Controlgear and switchgear

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Other regulations and additional requirements	2
4	General equipment requirements	2
4.1	Mounting	2
4.2	Construction	2
4.3	Operating voltage	2
4.4	Rated frequency	2
4.5	Rated current	2
4.6	Control circuit voltage	3
4.7	Starter battery systems	3
4.8	Environmental conditions	3
4.9	Enclosure and degree of protection	3
5	Generating set switchgear	4
5.1	General	4
5.2	Load-switching devices	5
5.3	Fault current ratings	5
5.4	Cables and interconnections	5
5.5	Generator protection	5
6	Control modes	6
6.1	General	6
6.2	Hand start/hand stop	6
6.3	Local electric start/hand stop	6
6.4	Local electric start/electric stop	6
6.5	Remote start/electric stop	6
6.6	Automatic start/automatic stop	6
6.7	Start on demand	6
6.8	Standby-to-mains control	6
6.9	Dual mutual standby control	7
6.10	Triple mutual standby control	7
6.11	Dual mutual standby-to-mains control	7
6.12	Parallel operation	8
6.13	Means of stopping	10
7	Generating set monitoring	10
7.1	General	10
7.2	Electrical instrumentation	10
7.3	Electrical protection and supervisory control	10
7.4	Engine protection system	14
7.5	Engine instrumentation	14
Bibliography		18