

DIN EN 12098-3:2014-02 (E)

Controls for heating systems - Part 3: Control equipment for electrical heating systems

Contents		Page
Foreword		3
Introduction		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	5
4	Functionality	12
4.1	Functional objective	12
4.2	Control equipment functionality	13
5	Graphical symbols	13
6	Requirements	13
6.1	Data protection	13
6.2	Characteristic heating curve	13
6.3	Input signal - Sensors	14
6.4	Controller operation modes	14
6.5	Frost protection	15
6.6	Additional functions	15
6.7	Switching times	16
6.8	Override mode	16
6.9	Parameter settings	16
6.10	Factory settings / default values	16
6.11	Switching relays	17
6.12	Electrical requirements	17
6.13	Degree of protection	17
6.14	Environmentally induced stress due to temperature	17
6.15	Materials	17
6.16	Use of graphical symbols	18
7	Test methods	18
7.1	Data Protection	18
7.2	Controller operation modes	18
7.3	Controller characteristic heating curve	18
7.4	Frost protection	20
7.5	Switching times	21
7.6	Manual override mode	21
7.7	Optimum start-stop function	21
7.8	Set back	25
7.9	Parameter settings	25
7.10	Factory settings	25
7.11	Switching relays	25
7.12	Electrical test	25
7.13	Degrees of protection	25
7.14	Environmental individual stress due to temperature	25
8	Marking	25

9	Documentation	26
9.1	Technical documents	26
9.2	Technical Specifications	26
9.3	Instruction installation	27
9.4	User guideline	27
	Bibliography	28