

Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions
4	General requirements
4.1	Detail specification sheets
4.2	Materials
4.3	Construction
4.4	Terminals
4.4.1	Main terminals
4.4.1.1	General
4.4.1.2	Stud terminals (threaded)
4.4.1.3	Plug-in terminals
4.4.2	Auxiliary terminals
4.5	Enclosures
4.5.1	General
4.5.2	Open enclosures
4.5.3	Enclosed enclosures (ventilated explosion-proof)
4.5.4	Sealed (other than hermetically) enclosures
4.5.5	Hermetically sealed enclosures
4.5.6	Grounding of enclosures
4.6	Installation clearances
4.7	Terminal marking
4.8	Terminal covers and barriers
4.9	Mounting
5	Design characteristics
5.1	General
5.2	Control signal
5.3	Status signals for smart contactors
5.4	Fail-safe characteristics
6	Operating characteristics
6.1	General operating characteristics
6.2	Timing sequence
6.3	Operating voltage
6.3.1	General
6.3.2	Pickup voltage
6.3.3	Dropout voltage
6.4	Electrical characteristics
6.4.1	General
6.4.2	Contact voltage drop
6.4.3	Quiescent power dissipation
6.4.4	Control signals
6.4.4.1	General
6.4.4.2	Control power supply current
6.4.4.3	Transient voltage
6.4.4.4	Status turn-off time
6.4.4.5	Status turn-on time

- 6.4.4.6 Turn-off voltage
 - 6.4.4.7 Turn-on voltage
 - 6.4.4.8 Control current
 - 6.5 Contact bounce, operating and release time
 - 6.6 Dielectric strength
 - 6.7 Insulation resistance
 - 6.8 Overload characteristics
 - 6.8.1 General
 - 6.8.2 Trip characteristics with the overload condition
 - 6.8.3 Circuit breaker compatibility
 - 6.9 Ground Fault Interrupt characteristics
 - 6.10 Trip-free characteristics
 - 6.11 Life
- 7 Environmental conditions and test procedures
- 8 Qualification Tests
- 8.1 General
 - 8.2 Visual and mechanical examination
 - 8.3 Timing sequence
 - 8.3.1 Turn-off time
 - 8.3.2 Turn-on time
 - 8.4 Operating voltage
 - 8.4.1 General
 - 8.4.2 Pickup voltage
 - 8.4.2.1 General
 - 8.4.2.2 Pickup voltage at room temperature
 - 8.4.2.3 Pickup voltage at high temperature
 - 8.4.3 Dropout voltage
 - 8.5 Electrical characteristics
 - 8.5.1 General
 - 8.5.2 Contact voltage drop
 - 8.5.3 Quiescent power dissipation
 - 8.5.4 Control signals
 - 8.5.4.1 Control power supply current
 - 8.5.4.2 Transient voltage
 - 8.5.4.3 Status turn-off time
 - 8.5.4.4 Status turn-on time
 - 8.5.4.5 Turn-off voltage
 - 8.5.4.6 Turn-on voltage
 - 8.5.4.7 Control current
 - 8.6 Contact bounce, operating and release times
 - 8.7 Dielectric withstanding voltage
 - 8.8 Insulation resistance
 - 8.9 Overloads
 - 8.9.1 Trip characteristics with the overload condition
 - 8.9.2 Circuit breaker compatibility
 - 8.10 Ground Fault Interrupt characteristics
 - 8.11 Trip-free characteristics
 - 8.12 Life
 - 8.13 Terminal strength
 - 8.14 Seal

Page count: 24