

Specification for DC Contactor(Annexure-1)

Description:3-pole Contactor where all three poles must be connected in series in a 1-pole configuration up to max 1000 VDC. Operated with wide control voltage range 24-60 V, DC.

Contactor type: DC circuit switching contactor with 3 contacts in series

Technical Specifications

1) General

- a) Number of Main Contacts NO: 3
- b) Number of Main Contacts NC: 0
- c) Number of Auxiliary Contacts NO: 1
- d) Number of Auxiliary Contacts NC: 1
- e) Rated Operational Voltage: Main Circuit 1000 V
- f) Conventional Free-air Thermal Current: acc. to IEC 60947-4-1, Open Contactors $q = 40\text{ }^{\circ}\text{C}$ 700 A
- g) Rated Operational Current DC-1 :(1000 V) 700 A
- h) Rated Insulation Voltage: acc. to UL/CSA 600 V, acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V
- i) Rated Impulse Withstand Voltage: Main Circuit 8 kV
- j) Mechanical Durability: minimum 5 million
- k) Minimum Mechanical Switching Frequency: 300 cycles per hour
- l) Coil Operating Limits: (acc. to IEC 60947-4-1) 0.85 x (Min Rated Control Circuit Voltage)
to 1.1 x (Max. Rated Control Circuit Voltage) (at $\theta \leq 70\text{ }^{\circ}\text{C}$) $^{\circ}\text{C}$
- m) Rated Control Circuit Voltage : DC Operation 24 to 60 V

2) Main Circuit connectors

- a) Rigid Al-Cable
- b) Bar
- c) Rigid Cu-Cable

3) Degree of Protection

Acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20

Acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP00

6) Terminal Type: Main Circuit: Bars

7) Environmental

- a) Storage -40 to +70 $^{\circ}\text{C}$
- b) Operation -40 to +70 $^{\circ}\text{C}$
- c) Maximum Operating Altitude Permissible: 3000 m

8) Resistance to Shock according to IEC 60068-2-27:5 g in all direction

9) RoHS: EU Directive 2002/95/EC August 18, 2005 and amendment

10) Dimensions

- a) Width: ≤ 186.0 mm
- b) Depth: ≤ 216.0 mm
- c) Height: ≤ 278.0 mm
- d) Weight: ≤ 12 Kg.

Note: Qualification certificates to be provided at the time of supply.

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