

Specification for AC Contactor (Annexure-2)

Description:

A 3-phase Contactor suitable for application up to max 1000 V. Operated with control voltage range 20-60 V, DC

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) Rated Frequency (f): Main Circuit 50 Hz
- g) Rated Operational Current : (690 V) 55 °C 600 A
- h) Rated Breaking Capacity according to IEC 60947-4-1: 8 x Rated Operational Current
- i) Rated Making Capacity according to IEC 60947-4-1: 10 x Rated Operational Current
- j) Short-Circuit Protective Devices: gG Type Fuses 800 A
- k) Minimum Electrical Switching Frequency: 300 cycles per hour
- l) Rated Operational Current:
 - (600 V) 3 Poles in Series, 40 °C 700 A
 - (110 V) 1-Pole, 40 °C 700 A
- m) Rated Insulation Voltage :
 - According to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V
- n) Rated Impulse Withstand Voltage : Main Circuit 8 kV
- o) Mechanical Durability: 5 million
- p) Minimum Mechanical Switching Frequency: 300 cycles per hour
- q) Coil Operating Limits:
 - (According to IEC 60947-4-1) (0.85 x MinRated Control Circuit Voltage) to (1.1 x MaxRated Control Circuit Voltage). (At $\theta \leq 70$ °C)
- r) Rated Control Circuit Voltage :
 - DC Operation 20 to 60 V

2) Main Circuit connectors

Rigid Al-Cable

Bar

Rigid Cu-Cable

6) Degree of Protection:

According to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20

According to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP00

7) Terminal Type:Main Circuit: Bars

8) Environmental

- a) Storage -40 to +70 °C
- b) Operation -40 to +70 °C
- c) Maximum Operating Altitude Permissible: 3000 m

9) Resistance to Shock:According to IEC 60068-2-27: 5 g in all directions

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

11) Dimensions

Net Width \leq 186.0

Net Depth \leq 216.0 mm

Net Height \leq 278.0 mm

Net Weight \leq 12 kg

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

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