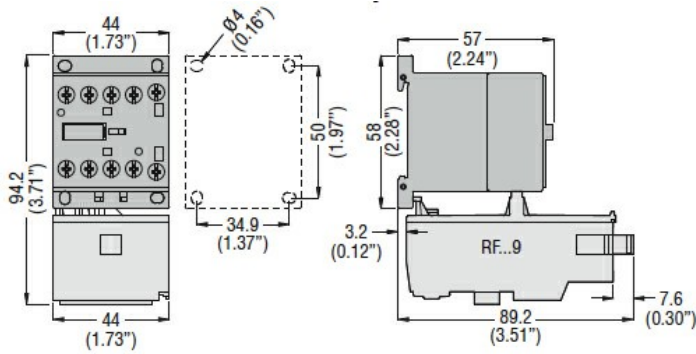


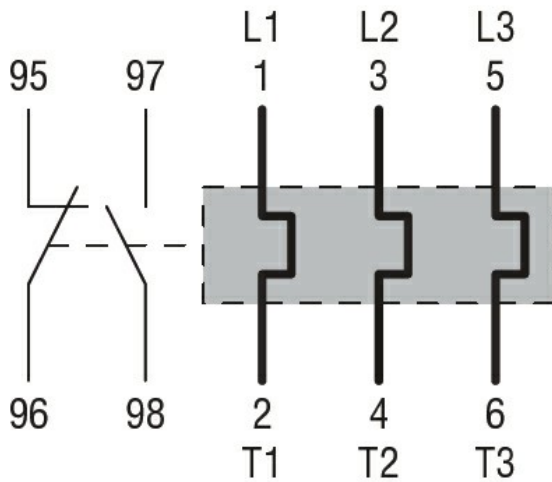


|   |                         |      |     |                        |
|---|-------------------------|------|-----|------------------------|
| Product designation                       |                         |      |     | 11RFNA9                |
| Product type designation                  |                         |      |     | Motor protection relay |
| <b>General characteristics</b>            |                         |      |     |                        |
| Number of poles                           | Nr.                     |      |     | 3                      |
| Overvoltage category                      |                         |      |     | III                    |
| Pollution degree                          |                         |      |     | 3                      |
| Frontal IP degree                         |                         |      |     | IP20                   |
| Type of release                           |                         |      |     | Thermal                |
| Protection fuse                           |                         |      |     |                        |
|   | gG (IEC)                | A    |     | 16                     |
|   | aM (IEC)                | A    |     | 6                      |
|   | RK5 (UL)                | A    |     | 15                     |
| Phase failure detection                   |                         |      |     | yes                    |
| Reset mode                                |                         |      |     | Automatic              |
| <b>Power circuit characteristics</b>      |                         |      |     |                        |
| Rated insulation voltage $U_i$ IEC/EN     | V                       |      |     | 690                    |
| Rated impulse withstand voltage $U_{imp}$ | kV                      |      |     | 8                      |
| Rated operational voltage                 | V                       |      |     | 690                    |
| Operational frequency                     |                         |      |     |                        |
|   | min                     | Hz   | 0   |                        |
|   | max                     | Hz   | 400 |                        |
| Operational current $I_e$                 |                         |      |     |                        |
|   | Operational current min | A    | 3   |                        |
|   | Operational current max | A    | 5   |                        |
| Tripping class                            |                         |      |     | 10A                    |
| Test Button                               |                         |      |     | Yes                    |
| Trip indicator                            |                         |      |     | yes                    |
| Terminals                                 |                         |      |     |                        |
|   | type                    |      |     | screw and washer       |
|   | screw                   |      |     | M4                     |
|   | width                   | mm   | 9.8 |                        |
|   | tool                    |      |     | Phillips 2             |
| Tightening torque for terminals           |                         |      |     |                        |
|   | min                     | Nm   | 2.3 |                        |
|   | max                     | Nm   | 2.3 |                        |
|   | min                     | lbin | 1.7 |                        |
|   | max                     | lbin | 1.7 |                        |
| Conductor section                         |                         |      |     |                        |
|   | AWG/kcmil max           |      |     | 10                     |
| <b>Auxiliary circuit characteristics</b>  |                         |      |     |                        |
| Auxiliary contacts                        |                         |      |     |                        |
|   | NO                      | Nr.  | 1   |                        |
|   | NC                      | Nr.  | 1   |                        |

|   |  |  |
|---|--|--|
| Auxiliary Rated insulation voltage $U_i$ IEC/EN     | V                                      | 690  |
| Auxiliary Rated impulse withstand voltage $U_{imp}$ | kV                                     | 6  |
| Auxiliary Rated operational voltage                 | V                                      | 690  |
| Operating current AC15                              |  |  |
|   | 24V                                    | A 1.5                                      |
|   | 120V                                   | A 1.5                                      |
|   | 240V                                   | A 0.75                                     |
| IEC Conventional free air thermal current $I_{th}$  | A                                      | 10   |
| Terminals   |  |  |
|   | Auxiliary circuit type                 | screw and washer                           |
|   | Auxiliary circuit screw                | M3,5                                       |
|   | Auxiliary circuit width                | mm 8                                       |
|   | Auxiliary circuit tool                 | Phillips 1                                 |
| Conductor section                                   |  |  |
|   | Auxiliary circuit Flexible w/o lug max | mm <sup>2</sup> 2.5                        |
|   | Auxiliary circuit Flexible c/w lug max | mm <sup>2</sup> 2.5                        |
| Tightening torque for terminals                     |  |  |
|   | Auxiliary circuit min                  | Nm 1                                       |
|   | Auxiliary circuit max                  | Nm 1                                       |
|   | Auxiliary circuit min                  | Ibin 0.74                                  |
|   | Auxiliary circuit max                  | Ibin 0.74                                  |
| UL/CSA and IEC/EN 60947-5-1 designation             |  | C300-R300                                  |
| <b>Ambient conditions</b>                           |  |  |
| Operating temperature                               |  |  |
|   | min                                    | °C -20                                     |
|   | max                                    | °C 55                                      |
| Storage temperature                                 |  |  |
|   | min                                    | °C -55                                     |
|   | max                                    | °C 70                                      |
| Compensation temperature                            |  |  |
|   | min                                    | °C -15                                     |
|   | max                                    | °C 55                                      |
| Max altitude  | m                                      | 3000                                       |
| <b>Mechanical features</b>                          |  |  |
| Operating position                                  | normal allowable                       | Vertical plan ±30°                         |
| Fixing  |  | Direct mounting on BG06... BG09... BG12... |
| Weight  | g                                      | 123  |
| <b>UL technical data</b>                            |  |  |
| Full-load current (FLA) for three-phase AC motor    |  |  |
|   | at 480V                                | A 5  |
|   | at 600V                                | A 5  |
| <b>Dimensions</b>                                   |  |  |



**Wiring diagrams**



**Certifications and compliance**

**Compliance**

CSA C22.2 n° 14  
IEC/EN 60947-1  
IEC/EN 60947-4-1  
UL508

**Certifications**

CCC  
CSA  
cULus  
EAC

**ETIM classification**

ETIM 8.0

EC000106 -  
Thermal overload  
relay