



|  |                           |                       |        |
|--|---------------------------|-----------------------|--------|
| Product designation                      | Motor protection relay    |                       |        |
| Product type designation                 | RF420                     |                       |        |
| <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                     | 500 A  |
|  | aM (IEC)                  | A                     | 315 A  |
|  | K5 (UL)                   | A                     | 800 A  |
| Phase failure detection                  | NO                        |                       |        |
| Reset mode                               | Manual or automatic       |                       |        |
| <b>Power circuit characteristics</b>     |                           |                       |        |
| Operating frequency                      | Operational frequency max | Hz                    | 60 1/s |
| Operating current                        | Operational current min   | A                     | 180 A  |
|  | Operational current max   | A                     | 300 A  |
| Tripping class                           | 10A                       |                       |        |
| Test Button                              | YES                       |                       |        |
| Trip indicator                           | YES                       |                       |        |
| Terminals                                | type                      | screw and flat washer |        |
|  | screw                     | M10                   |        |
|  | tool                      | Bar 18mm              |        |
| <b>Auxiliary circuit characteristics</b> |                           |                       |        |
| Auxiliary contacts                       | NO                        | nr.                   | 1      |
|  | NC                        | nr.                   | 1      |
| Operating current AC15                   | 24V                       | A                     | 3 A    |
|  | 120V                      | A                     | 3 A    |
|  | 240V                      | A                     | 1.5 A  |
|  | 380V                      | A                     | 0.95 A |
|  | 480V                      | A                     | 0.75 A |
|  | 500V                      | A                     | 0.72 A |
|  | 600V                      | A                     | 0.6 A  |
| Operating current DC13                   | 125V                      | A                     | 0.11 A |
|  | 600V                      | A                     | 0.22 A |

|   |   |      |
|---|---|------|
| Conventional free air thermal current I <sub>th</sub> | A | 10 A |
|---|---|------|

Terminals

|       |                  |
|-------|------------------|
| type  | Screw and washer |
| screw | M3,5             |
| tool  | Phillips 2       |

|   |           |
|---|-----------|
| UL/CSA and IEC/EN 60947-5-1 designation | B600-R300 |
|---|-----------|

Ambient conditions

|              |   |      |
|--------------|---|------|
| Max altitude | m | 3000 |
|--------------|---|------|

Mechanical features

Operating position

|                  |                       |
|------------------|-----------------------|
| normal allowable | Vertical plan<br>±30° |
|------------------|-----------------------|

|        |   |          |
|--------|---|----------|
| Weight | g | 2.460 kg |
|--------|---|----------|

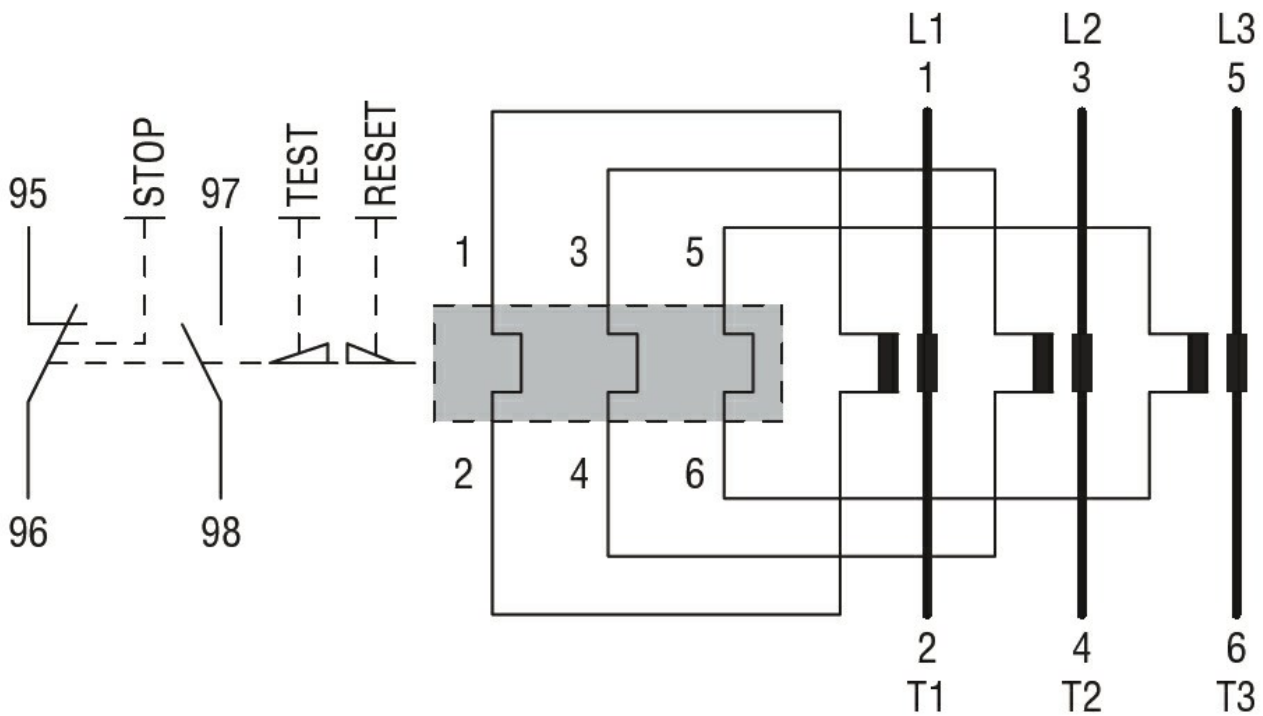
UL technical data

Full-load current (FLA) for three-phase AC motor

|         |   |       |
|---------|---|-------|
| at 480V | A | 300 A |
| at 600V | A | 300 A |

Dimensions

Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 14

IEC/EN 60947-1

IEC/EN 60947-4-1

UL508

Certifications

cULus

EAC