

# RSC16-301/AC24V

## 3 or 4 pole | 16 A | 7.5 kW



### Main circuit

|                                                     |                                |
|-----------------------------------------------------|--------------------------------|
| Available contact materials                         | AgNi                           |
| Rated voltage                                       | 690 V AC                       |
| Rated current AC-1                                  | 25 A                           |
| Rated current AC-3                                  | 16 A, 400 V                    |
| Rated current DC-3                                  | 0.75 A, 220 V DC               |
| Recommended minimum contact load                    | 50 mA, 17 V                    |
| Overload current                                    | 128 A (10 s) / 450 A (0.001 s) |
| Rated load AC-1 single-phase 230 V                  | 16 kW                          |
| Rated load AC-1 three-phase 230 V                   | 7.5 kW                         |
| Mechanical endurance (cycles)                       | 10 000 000                     |
| Electrical endurance at rated load AC-1 (cycles)    | 200 000                        |
| Electrical endurance at rated load AC-3 (cycles)    | see fig. 2                     |
| Switching frequency at rated load AC-1 (cycles / h) | ≤ 600                          |
| Switching frequency at rated load AC-3 (cycles / h) | ≤ 600                          |
| Switching frequency at rated load DC-3 (cycles / h) | ≤ 300                          |

### Control circuit

|                           |                                                   |
|---------------------------|---------------------------------------------------|
| Nominal voltage           | see table product references                      |
| Operating voltage range   | 0.85 ... 1.1 U <sub>N</sub>                       |
| Pick-up voltage           | ≤ 0.85 U <sub>N</sub>                             |
| Release voltage           | ≥ 0.2 U <sub>N</sub> AC / ≥ 0.1 U <sub>N</sub> DC |
| Pick-up time              | 10 ... 25 ms                                      |
| Release time              | 5 ... 15 ms                                       |
| Power consumption AC / DC | 8.0 VA / 2.5 W                                    |
| Frequency range           | 50 / 60 Hz                                        |

### Insulation

|                                              |              |
|----------------------------------------------|--------------|
| Rated insulation voltage                     | 690 V        |
| Rated impulse withstand voltage open contact | 6 kV / 1 min |
| Pollution degree                             | 3            |
| Overvoltage category                         | III          |
| Clearance of open contact                    | 3.6 mm       |

### Wiring

|                                                |                                         |
|------------------------------------------------|-----------------------------------------|
| Contact type control / main circuit            | Screw connection                        |
| Conductor cross section control / main circuit | 2.5 mm <sup>2</sup> / 6 mm <sup>2</sup> |
| Stripping Length control / main circuit        | 10 mm / 10 mm                           |
| Nominal screw torque control / main circuit    | 1.4 Nm / 1.4 Nm                         |
| Screwdrive control / main circuit              | PZ2 / PZ2                               |

### Housing and environmental conditions

|                                             |               |
|---------------------------------------------|---------------|
| Storage temperature (no ice)                | -30 ... 80 °C |
| Ambient temperature operation open contact  | -25 ... 55 °C |
| Ambient temperature operation close contact | -25 ... 45 °C |
| Relative humidity, no condensation          | 95 %          |
| Ingress Protection                          | IP 20         |
| Weight                                      | 300 g         |
| Housing material                            | PA 66         |
| Operation Altitude                          | Max. 2 000 m  |
| Mounting                                    | DIN rail      |
| Dimensions                                  | see fig. 3    |

### Product references

| Description                                                        | Type             | 24 |
|--------------------------------------------------------------------|------------------|----|
| 3 NO + 1 NC                                                        | RSC16-301/AC...V | ✓  |
| Other voltages on request. Please contact support@comatreleco.com. |                  |    |
| «...» List control circuit voltage to complete product references. |                  |    |

### Accessories

|                            |                                                                                                                                                                                                                |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Auxiliary contact          | RSC-AUX02, RSC-AUX11, RSC-AUX04, RSC-AUX20, RSC-AUX22, RSC-AUX40                                                                                                                                               |
| RC - Suppressor            | RSC-RC1, RSC-RC2                                                                                                                                                                                               |
| Bimetallic thermal relay   | RSC-MP-0.16, RSC-MP-0.25, RSC-MP-0.4, RSC-MP-0.5, RSC-MP-0.63, RSC-MP-0.8, RSC-MP-1.0, RSC-MP-1.3, RSC-MP-1.6, RSC-MP-10.0, RSC-MP-2.0, RSC-MP-2.5, RSC-MP-3.2, RSC-MP-4.0, RSC-MP-4.8, RSC-MP-6.3, RSC-MP-7.5 |
| MBL - Mechanical interlock | RSC-MBL1, RSC-MBL2                                                                                                                                                                                             |
| DI - Suppressor            | RMC-DI                                                                                                                                                                                                         |



fig. 1. Wiring diagram

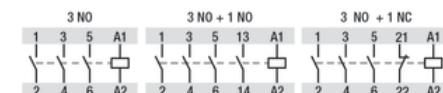


fig. 2. Electrical endurance

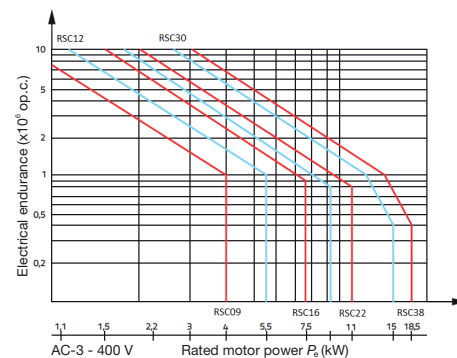
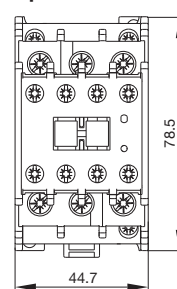
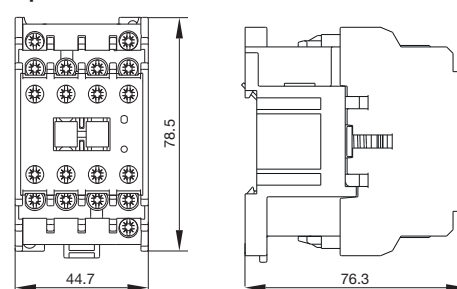


fig. 3. Dimensions (mm)

#### 3 pole



#### 4 pole



### Technical approvals, conformities

Standards IEC/EN 60947

Approvals