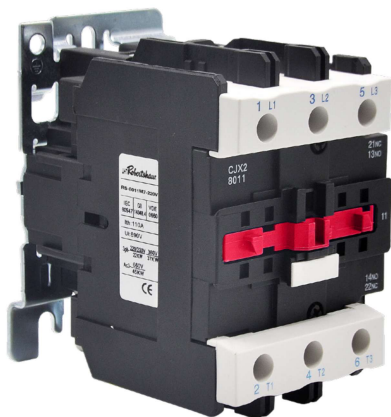


# HVAC CONTACTORS

RS-M7 Series



RS-8011M7-220V

## Features and Benefits

- Compact designs for installation flexibility
- Quick connect power and control wires for easy installation
- Fully encapsulated dust resistant bodies
- Industry standard mountings

## Description

Contactors suit high power commercial HVAC applications requiring on/off switching of high power loads and control of varying voltage over thousands of motor and compressor cycles. They receive a low voltage signal (24V) from the furnace and create a magnetic field by pulling down a piece of metal connecting the higher voltage sides, causing lower voltage and current to switch a higher circuit and power fan and compressor motors. A single pole contactor has one magnetic coil for one circuit and a double pole connects two circuits with two coils.

Robertshaw® IEC60947-4-1 conforming RS-M7 Series contactor features include:

- Space saving designs enabling smaller panels, more wiring room and easy retrofits
- Installation and retrofit time saving quick connect power and control wires
- Fully encapsulated bodies for less contaminant penetration and maintenance, longer life and better performance
- Din rail, direct surface or mounting plate screw installation
- 24, 110 and 220 coil voltage availability
- Visual contact position indications
- 100% silver contacts
- Coil insulation
- Quiet operation

## Applications

- Commercial air conditioning
- Commercial heating
- Residential and light commercial electric strip heating

## Replacement Information

| Robertshaw Part Number | Current Rating | Siemens | ABB       | Schneider |
|------------------------|----------------|---------|-----------|-----------|
| RS-K0910M7             | 9 Amp Mini     | 3RT1016 | A9-30-10  | LC1-K0901 |
| RS-K1210M7             | 12 Amp Mini    | 3RT1017 | B6-30-10  | LC1-K1210 |
| RS-0910M7              | 9 Amp          | 3RT1023 | A9-30-10  | LC1D09    |
| RS-1210M7              | 12 Amp         | 3RT1024 | A12-30-10 | LC1D12    |
| RS-1810M7              | 18 Amp         | 3RT1025 | A16-30-10 | LC1D18    |
| RS-2510M7              | 25 Amp         | 3RT1026 | A26-30-10 | LC1D25    |
| RS-3210M7              | 32 Amp         | 3RT1034 | A30-30-10 | LC1D32    |
| RS-4011M7              | 40 Amp         | 3RT1035 | A40-30-10 | LC1D40    |
| RS-5011M7              | 50 Amp         | 3RT1036 | A50-30-11 | LC1D50    |
| RS-6511M7              | 65 Amp         | 3RT1044 | A63-30-11 | LC1D65    |
| RS-8011M7              | 80 Amp         | 3RT1045 | A75-30-11 | LC1D80    |
| RS-9511M7              | 95 Amp         | 3RT1046 | A95-30-11 | LC1D95    |

1 Year  
Limited  
Warranty

# HVAC CONTACTORS

## RS-M7 Series



### Specifications

| Robertshaw<br>Part Number                            | Agree on<br>Heating<br>Current A | Rated<br>Working<br>Voltage<br>380V AC-1 | Rated<br>Working<br>Current<br>380V AC-3 | Rated<br>Working<br>Voltage<br>380V AC-4 | Rated<br>Insulation<br>Voltage<br>(V) | Mechanical<br>Life 1<br>Million<br>Times | Electrical Life<br>AC-1   1<br>Million<br>Times | Electrical Life<br>AC-3   1<br>Million<br>Times | Electrical Life<br>AC-4   1<br>Million<br>Times |
|------------------------------------------------------|----------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|---------------------------------------|------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| RS-0910M7-24V<br>RS-0910M7-110V<br>RS-0910M7-220V    | 20                               | 18                                       | 9                                        | 3.5                                      | 690                                   | 200                                      | 80                                              | 60                                              | 10                                              |
| RS-1210M7-24V<br>RS-1210M7-110V<br>RS-1210M7-220V    | 25                               | 23                                       | 12                                       | 5                                        | 690                                   | 200                                      | 80                                              | 60                                              | 10                                              |
| RS-1810M7-24V<br>RS-1810M7-110V<br>RS-1810M7-220V    | 32                               | 30                                       | 18                                       | 7.5                                      | 690                                   | 200                                      | 80                                              | 60                                              | 10                                              |
| RS-2510M7-24V<br>RS-2510M7-110V<br>RS-2510M7-220V    | 40                               | 40                                       | 25                                       | 8.5                                      | 690                                   | 200                                      | 80                                              | 60                                              | 10                                              |
| RS-3210M7-24V<br>RS-3210M7-110V<br>RS-3210M7-220V    | 50                               | 50                                       | 32                                       | 12                                       | 690                                   | 200                                      | 80                                              | 60                                              | 10                                              |
| RS-4011M7-24V<br>RS-4011M7-110V<br>RS-4011M7-220V    | 60                               | 60                                       | 40                                       | 18.5                                     | 690                                   | 120                                      | 50                                              | 40                                              | 8                                               |
| RS-5011M7-24V<br>RS-5011M7-110V<br>RS-5011M7-220V    | 70                               | 65                                       | 50                                       | 24                                       | 690                                   | 120                                      | 50                                              | 40                                              | 8                                               |
| RS-6511M7-24V<br>RS-6511M7-110V<br>RS-6511M7-220V    | 80                               | 120                                      | 65                                       | 28                                       | 690                                   | 120                                      | 50                                              | 40                                              | 8                                               |
| RS-8011M7-24V<br>RS-8011M7-110V<br>RS-8011M7-220V    | 110                              | 150                                      | 80                                       | 37                                       | 690                                   | 120                                      | 50                                              | 40                                              | 8                                               |
| RS-9511M7-24V<br>RS-9511M7-110V<br>RS-9511M7-220V    | 125                              | 180                                      | 95                                       | 44                                       | 690                                   | 120                                      | 50                                              | 60                                              | 8                                               |
| RS-K0610M7-24V<br>RS-K0610M7-110V<br>RS-K0610M7-220V | 16                               | 18                                       | 6                                        | 3                                        | 690                                   | 200                                      | 80                                              | 60                                              | 10                                              |
| RS-K0910M7-24V<br>RS-K0910M7-110V<br>RS-K0910M7-220V | 16                               | 18                                       | 9                                        | 4                                        | 690                                   | 200                                      | 80                                              | 60                                              | 10                                              |
| RS-K1210M7-24V<br>RS-K1210M7-110V<br>RS-K1210M7-220V | 20                               | 18                                       | 12                                       | 5.5                                      | 690                                   | 200                                      | 80                                              | 60                                              | 10                                              |

# HVAC CONTACTORS

RS-M7 Series

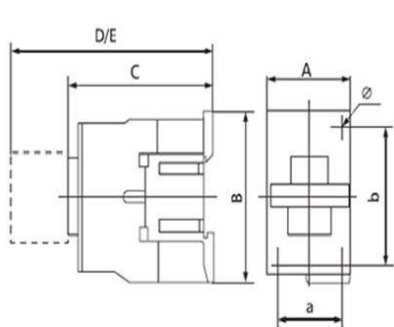


## Standard Control Circuit Voltage

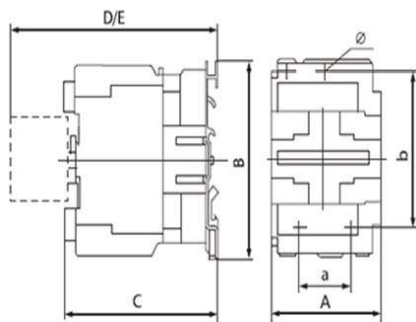
| Volts | 50 Hz | 60 Hz | 50/60 Hz |
|-------|-------|-------|----------|
| 24    | B5    | B6    | B7       |
| 42    | D5    | D6    | D7       |
| 48    | E5    | E6    | E7       |
| 110   | F5    | F6    | F7       |
| 220   | M5    | M6    | M7       |
| 230   | P5    |       | P7       |
| 240   | U5    | U6    | U7       |
| 380   | Q5    | Q6    | Q7       |
| 400   | V5    |       | V7       |
| 415   | N5    |       | N7       |
| 440   | R5    | R6    | R7       |
| 500   | S5    |       |          |
| 600   | Y5    |       |          |

## Dimensions (in Millimeters/Inches)

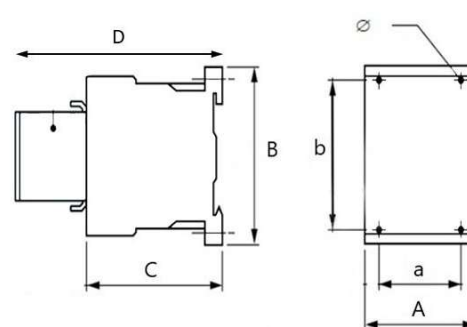
| Type | RS-0910M7<br>to RS-1210M7 | RS-1810M7  | RS-2510M7  | RS-3210M7  | RS-4010M7<br>to RS-6510M7 | RS-8010M7<br>to RS-9510M7 | RS-K0910M7<br>to RS-K1210M7 |
|------|---------------------------|------------|------------|------------|---------------------------|---------------------------|-----------------------------|
| A    | 47 / 1.85                 | 47 / 1.85  | 57 / 2.24  | 57 / 2.24  | 77 / 3.03                 | 87 / 3.43                 | 45 / 1.77                   |
| B    | 76 / 2.99                 | 76 / 2.99  | 86 / 3.39  | 86 / 3.39  | 129 / 5.08                | 129 / 5.08                | 58 / 2.28                   |
| C    | 82 / 3.23                 | 87 / 3.43  | 95 / 3.74  | 100 / 3.94 | 116 / 4.57                | 127 / 5.00                | 57 / 2.24                   |
| D    | 113 / 4.45                | 118 / 4.65 | 126 / 4.96 | 131 / 5.16 | 145 / 5.71                | 175 / 6.89                | 92 / 3.62                   |
| E    | 133 / 5.24                | 138 / 5.43 | 146 / 5.75 | 151 / 5.94 | 165 / 6.50                | 195 / 7.68                |                             |
| a    | 34 / 1.34                 | 34 / 1.34  | 40 / 1.57  | 40 / 1.57  | 40 / 1.57                 | 40 / 1.57                 | 35 / 1.38                   |
| b    | 48 / 1.89                 | 48 / 1.89  | 48 / 1.89  | 48 / 1.89  | 100 / 110<br>3.94 / 4.33  | 100 / 111<br>3.94 / 4.37  | 50 / 1.97                   |
| Ø    | 4.5 / 0.18                | 4.5 / 0.18 | 4.5 / 0.18 | 4.5 / 0.18 | 6.5 / 0.26                | 6.5 / 0.26                | 4 / 0.16                    |



RS-0910M7 to RS-3210M7



RS-4010M7 to RS-9510M7



RS-K0910M7 to RS-K1210M7