



38 series

Potential Motor Starting Relay 1-pole, 35A, Normally Closed AC Coil

us File E83865

Users should thoroughly review the technical data before selecting a product part number. It is recommended that users also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

Features

- Single-pole, normally closed relay used extensively in HVAC applications.
- Variety of mounting positions and brackets.
- Convenient 0.250" (6.35 mm) quick connect terminals.
- Custom-built to meet customer requirements.

Contact Data @ 25°C

Arrangements: Normally-Closed.

Materials: Silver cadmium oxide.

Maximum Rating: 35A inductive @ 277VAC, 0.5 power factor (Break only)

Expected Life: 750,000 ops, mechanical.
250,000 ops., breaking rated load.

Initial Dielectric Strength

Initial Breakdown Voltage: 1,554 VAC @ 60 Hz. between live parts and exposed non-current carrying metal parts.

Coil Data @ 25°C

Voltage: 130, 170, 214, 256, 336, 395, 420 and 495 VAC, 60 Hz.

Nominal Sealed Power: 5 VA).

Insulation Class: UL Class B (130°C).

Duty Cycle: Continuous.

Mechanical Data

Termination: 0.250" (6.35 mm) quick connects (single or dual, model dependent). Terminals #4 & #6 are dummies for customer convenience.

Mounting Position: Each model is calibrated for its specified mounting position. Pick-up voltage may vary if relay is mounted in positions other than specified.

Weight: 5.76 oz. (163.8 g) approximately

Ordering Information

| Typical Part No. ▶ | 38 | -A | 144 | C | 3 | 000 |
|---|----|----|-----|---|---|-----|
| 1. Series: 38 = 1-pole, normally-closed, potential motor starting relay | | | | | | |
| 2. Wiring and Terminal Type (number of QCs at given base locations): A = 2 @ loc. 1, 2 @ loc. 2, 4 @ loc. 3, 2 @ loc. 5 and 2 @ loc. 6. D = 2 @ loc. 1, 2 @ loc. 2, 4 @ loc. 3, 2 @ loc. 5 and 0 @ loc. 6. M = 2 @ loc. 1, 2 @ loc. 2, 2 @ loc. 3, 2 @ loc. 5 and 0 @ loc. 6. R = 1 @ loc. 1, 2 @ loc. 2, 0 @ loc. 3, 1 @ loc. 5 and 0 @ loc. 6. S = 1 @ loc. 1, 2 @ loc. 2, 0 @ loc. 3, 2 @ loc. 5 and 0 @ loc. 6. T = 2 @ loc. 1, 2 @ loc. 2, 0 @ loc. 3, 2 @ loc. 5 and 0 @ loc. 6. Y = 1 @ loc. 1, 2 @ loc. 2, 4 @ loc. 3, 2 @ loc. 5 and 0 @ loc. 6. | | | | | | |
| 3. Coil Rating and Calibration: 000-999 = See table on following page for details. | | | | | | |
| 4. Mounting Bracket Style: C, D, F or J = See drawings below for details. | | | | | | |
| 5. Mounting Position: 1, 2, 3, 4, 5 & 6 = See drawings below for details. NOTE: Devices calibrated in specified mounting position only. | | | | | | |
| 6. Customer ID Suffix: 000-999 = Factory assigned customer ID | | | | | | |

Standard part numbers listed below are more likely to be available from stock.

Custom parts only.

Coil Rating & Calibration Table

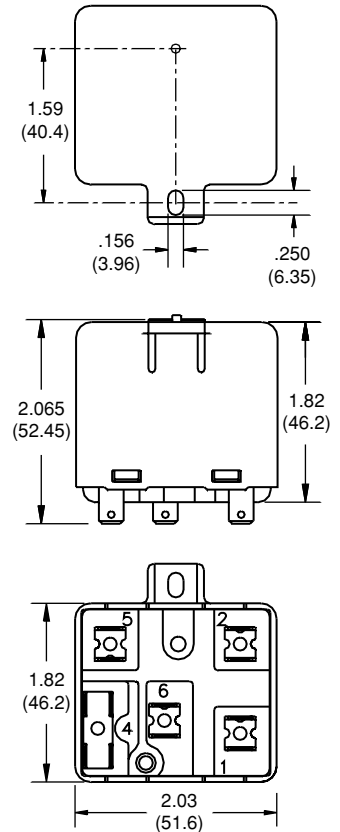
Select proper continuous coil voltage from top of appropriate column, select pick - up (PU) and drop-out (DO) voltages and insert relay calibration (RC) number in part number.

| COIL #1 130 V 60 Hz 117 V 50 Hz* | | | COIL #2 170 V 60 Hz 151 V 50 Hz* | | | COIL #3 256 V 60 Hz 228 V 50 Hz* | | | COIL #4 336 V 60 Hz 299 V 50 Hz* | | |
|--|---------|-------|--|---------|---------|--|---------|---------|--|---------|----------|
| RES.@ 1480±10% | | | RES.@ 2040±10% | | | RES.@ 5100±10% | | | RES.@ 6800±10% | | |
| 24°C | | | 24°C | | | 24°C | | | 24°C | | |
| RC# | PU | DO | RC# | PU | DO | RC# | PU | DO | RC# | PU | DO |
| 1 | | | 2 | 159-172 | 20-77 | 3 | 240-269 | 45-95 | 4 | 243-271 | 55-125 |
| 8 | | | 9 | | | 10 | 259-288 | 45-95 | 11 | 261-290 | 55-125 |
| 15 | | | 16 | | | 17 | 278-306 | 45-115 | 18 | 280-309 | 55-125 |
| 22 | | | 23 | | | 24 | 296-325 | 45-115 | 25 | 299-327 | 55-125 |
| 29 | | | 30 | | | 31 | 315-343 | 45-115 | 32 | 317-345 | 55-125 |
| 36 | | | 37 | | | 38 | 323-352 | 45-115 | 39 | 326-354 | 55-125 |
| 43 | | | 44 | | | 45 | 333-363 | 45-115 | 46 | 335-364 | 55-125 |
| 50 | | | 51 | | | 52 | 285-305 | MAX. 77 | 53 | 340-370 | 55-125 |
| 57 | 111-125 | 20-50 | 58 | 111-124 | 30-65 | 59 | 240-269 | 35-77 | 60 | 171-184 | 40-90 |
| 64 | 121-134 | 20-50 | 65 | 120-134 | 30-65 | 66 | 123-134 | 25-77 | 67 | 168-182 | MAX. 90 |
| 71 | 130-143 | 20-55 | 72 | 130-144 | 30-65 | 73 | | | 74 | 180-195 | 40-90 |
| 78 | 139-153 | 20-55 | 79 | 140-153 | 30-65 | 80 | 136-150 | 45-90 | 81 | 219-253 | 40-115 |
| 85 | 149-163 | 20-55 | 86 | 149-163 | 30-65 | 87 | 150-163 | 45-90 | 88 | 152-166 | 55-115 |
| 92 | | | 93 | 159-172 | 30-65 | 94 | 159-172 | 45-90 | 95 | 162-175 | 55-115 |
| 99 | | | 100 | 168-182 | 30-65 | 101 | 168-182 | 45-95 | 102 | 171-184 | 55-115 |
| 106 | | | 107 | 178-192 | 30-75 | 108 | 178-192 | 45-95 | 109 | 180-193 | 55-115 |
| 113 | | | 114 | 139-153 | MAX. 55 | 115 | 185-213 | 45-95 | 116 | 188-214 | 55-115 |
| 120 | | | 121 | | | 122 | 203-231 | 45-95 | 123 | 205-234 | 55-115 |
| 127 | | | 128 | | | 129 | 221-250 | 45-95 | 130 | 224-252 | 55-125 |
| 134 | | | 135 | | | 136 | 140-152 | 33-77 | 137 | 186-215 | 40-90 |
| 141 | 80-110 | 20-55 | 142 | | | 143 | 285-305 | 45-115 | 144 | 162-175 | 40-90 |
| 148 | 62-76 | 20-45 | 149 | | | 150 | 159-172 | 35-77 | 151 | 162-175 | 70-100 |
| 156 | | | 157 | | | 158 | 150-162 | MAX. 77 | 159 | 243-271 | 40-90 |
| 163 | | | 164 | | | 165 | 136-150 | MAX. 50 | 166 | 205-234 | 40-90 |
| 170 | | | 171 | | | 172 | 166-182 | 35-77 | 173 | 180-195 | MAX. 105 |
| 178 | | | 179 | | | 180 | | | 181 | 224-252 | 40-90 |
| 185 | | | 186 | | | 187 | | | 188 | 280-309 | 55-100 |
| | | | | | | | | | 194 | 205-234 | 40-90 |
| | | | | | | | | | 198 | 152-166 | 40-90 |

| COIL #5 395 V 60 Hz 338 V 50 Hz* | | | COIL #6 420 V 60 Hz 378 V 50 Hz* | | | COIL #7 495 V 60 Hz 452 V 50 Hz* | | | COIL #8 214 V 60 Hz 193 V 50 Hz* | | |
|--|---------|---------|--|---------|---------|--|---------|---------|--|---------|-------|
| RES.@ 9600±10% | | | RES.@ 12700±10% | | | RES.@ 15200±10% | | | RES.@ 2840±10% | | |
| 24°C | | | 24°C | | | 24°C | | | 24°C | | |
| RC# | PU | DO | RC# | PU | DO | RC# | PU | DO | RC# | PU | DO |
| 5 | 245-275 | 60-140 | 6 | 242-272 | 75-150 | 7 | 239-268 | 75-170 | 193 | 158-171 | 25-57 |
| 12 | 262-290 | 60-140 | 13 | 262-290 | 75-150 | 14 | 258-287 | 75-170 | 196 | 120-134 | 25-56 |
| 19 | 280-310 | 60-140 | 20 | 280-310 | 75-160 | 21 | 277-305 | 75-170 | 197 | 129-142 | 25-57 |
| 26 | 305-335 | 60-140 | 27 | 300-328 | 75-160 | 28 | 295-324 | 75-170 | | | |
| 33 | 187-208 | 60-130 | 34 | 318-347 | 75-160 | 35 | 314-342 | 75-180 | | | |
| 40 | 326-354 | 60-140 | 41 | 328-356 | 75-150 | 42 | 323-352 | 75-180 | | | |
| 47 | 335-365 | 60-140 | 48 | 337-366 | 75-160 | 49 | 332-361 | 75-180 | | | |
| 54 | 340-370 | 60-140 | 55 | 340-370 | 75-160 | 56 | 258-287 | 60-135 | | | |
| 61 | 180-195 | 40-105 | 62 | 300-328 | 75-121 | 63 | | | | | |
| 68 | 215-225 | MAX.120 | 69 | 300-328 | MAX.125 | 70 | 323-352 | MAX.135 | | | |
| 75 | 334-363 | 50-110 | 76 | 212-232 | MAX.121 | 77 | 277-305 | 75-150 | | | |
| 82 | 298-326 | 50-110 | 83 | 195-224 | 60-121 | 84 | 295-324 | 60-135 | | | |
| 89 | 189-205 | 60-130 | 90 | 204-233 | 60-121 | 91 | 325-345 | MAX.135 | | | |
| 96 | 162-175 | 50-100 | 97 | 260-290 | 60-121 | 98 | | | | | |
| 103 | 180-195 | 50-100 | 104 | 242-272 | 60-121 | 105 | | | | | |
| 110 | 180-195 | 60-130 | 111 | 180-195 | 60-121 | 112 | 239-268 | 60-135 | | | |
| 117 | 190-215 | 60-130 | 118 | 190-215 | 60-121 | 119 | 325-345 | 75-170 | | | |
| 124 | 208-239 | 60-130 | 125 | 204-233 | 75-150 | 126 | 277-305 | 60-135 | | | |
| 131 | 223-254 | 60-140 | 132 | 223-252 | 75-150 | 133 | | | | | |
| 138 | 245-275 | MAX.120 | 139 | 195-224 | 75-150 | 140 | | | | | |
| 145 | 208-239 | MAX.120 | 146 | 320-340 | 60-121 | 147 | | | | | |
| 152 | 260-275 | MAX.120 | 153 | 295-315 | MAX.195 | 154 | | | | | |
| 160 | 260-275 | 60-140 | 161 | 218-243 | 60-121 | 162 | | | | | |
| 167 | 215-225 | 60-130 | 168 | 205-234 | 40-90 | 169 | | | | | |
| 174 | 239-270 | 50-110 | 175 | 223-252 | 60-121 | 176 | | | | | |
| 182 | 208-239 | 50-110 | 183 | 295-315 | MAX.125 | 184 | | | | | |
| 189 | 224-252 | 60-121 | 190 | 280-310 | 60-121 | 191 | | | | | |
| 195 | 190-215 | 40-105 | 192 | 180-195 | 40-105 | | | | | | |
| 200 | 279-308 | 50-110 | | | | | | | | | |

*For 50 Hz, add 300 to RC# - i.e. for 151 V 50 Hz, RC# 58 changes to 358.

Outline Dimensions



Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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