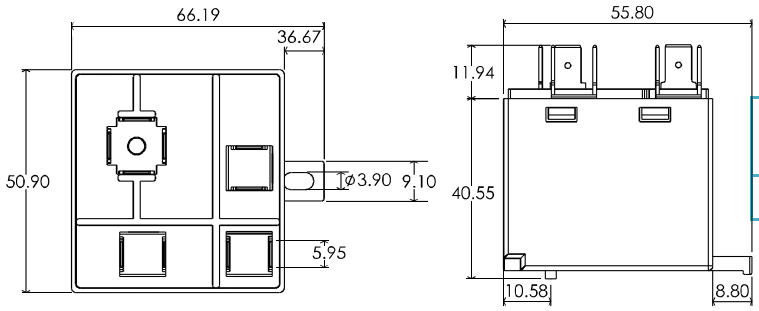
# ELECTRONIC CENTRIFUGAL SWITCHES
# FOR CAPACITOR START (& RUN) INDUCTION MOTORS

## ECS 224P




### MODEL CHART

| Switching part | Motor ratings | | |
|---|---|---|---|
| | Hp | Aux. coil rating volt | Pole |
| BTA24-800BW | 0.5~6.0Hp | 200 ~ 240 VAC | 2,4,6 |

* These models are designed for both capacitor start motors and two (start + run) capacitors motors

### ELECTRICAL CHARACTERISTICS (TYPICAL RATINGS OTHER THAN SPECIFIED)

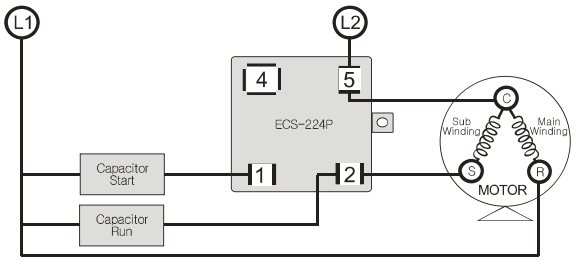
| Parameter | | ECS224P | Unit |
|---|---|---|---|
| Non repetitive peak current @ half cycle, 50/60Hz | | 250 | A |
| Thermal impedance @ 7.4sec, 25A | | 0.7 | °C/W |
| Switch-on delay time @ 50/60Hz | | 2 | cycle |
| *Discharge resistor | | 30.0 | KΩ |
| **Forced switch-off locked rotor time | 60Hz | 3.8 | sec |
| | 50Hz | 4.6 | sec |
| **Maximum Number of successive restarts | | 3 | - |
| Forced switch-off starting coil voltage | | 300 ~ 350 | V |
| Line voltage, VL | | 200 ~ 250 | V |
| Dielectric strength, between case and pins | | >3750 | VDC |
| Insulation resistance, between case and pins | | >10 | MΩ |
| Ambient air temperature | | -20 ~ 60 | °C |

* For frequent(hight duty)restarts, it is recommended to connect an additional resistor in parallel with starting capacitor.
**These can be initialized by either power interruptions or successful motor run states.

### CERTIFICATION

IEC/ EN 60730-1(Automatic electrical controls for household and similar use)
IEC/ EN 60730-2-10(particular requirements for motor-starting relays)

### TYPICAL WIRING

| 100~120VAC 50/60Hz Motor Operation | 200~240VAC 50/60Hz Motor Operation |
|---|---|
| Not applicable |  |



$C_S$ : Starting Capacitor, $C_R$ : Run Capacitor , $M_1$,$M_2$ : Main Coil , ST : Starting Coil