- Protects against Overload, Phase Reverse,
 Phase Loss and Phase Unbalance faults
- Wide Range of Sensing Current : 1A-45A
- · Models for 1 Phase and 3 Phase systems
- · Auto/Manual Reset selection
- · Fail-Safe Protection
- Inverse Time model with Underload,
 Locked Rotor Protection and Selectable Trip Class
- Definite Time model with Underload and selectable Start and Trip time



Ordering Information

| Cat. No. | Trip Type | Current | Auto Reset Time |
|-----------|-----------|-------------|-------------------|
| 17C112EB0 | Inverse | 3 A - 9 A | As per trip class |
| 17C212EB0 | Inverse | 8 A - 24 A | As per trip class |
| 17C312EB0 | Inverse | 15 A - 45 A | As per trip class |
| 17C412EB0 | Inverse | 2 A - 5 A | As per trip class |
| 17D112DA0 | Definite | 3 A - 9 A | 6 min |
| 17D212DA0 | Definite | 8 A - 24 A | 6 min |
| 17D312DA0 | Definite | 15 A - 45 A | 6 min |
| 17D412DA0 | Definite | 2 A - 5 A | 6 min |



| Cat. N | No. | 17C112EB0 | 17C212EB0 | 17D312DA0 | |
|---|-------------------------------|--|------------------------------|---------------|--|
| Paramet | ters | | | | |
| Supply \ | /oltage (ᡎ) | 110 - 240 VAC | | | |
| Supply \ | /ariation | -20% to +10% of (中) | | | |
| Frequen | су | 50 / 60 Hz | | | |
| Power C | Consumption (Max.) | 5 VA | | | |
| | Trip Type | Inverse Time | Inverse Time | Definite Time | |
| | Tripping Class | 5, 10, 20, 30 | 5, 10, 20, 30 | NA | |
| | Current Ranges | 3 - 9 A | 8 - 24 A | 15 - 45 A | |
| Trip | Thermal Memory | Yes | Yes | NA | |
| Settings | Underload | 40% to 90% | 40% to 90% | 50% | |
| | Locked Rotor Protection | 400% of the set value | 400% of the set value | NA | |
| Number | of In-Built CT's | 1 | | | |
| Reset M | lode | Auto, Manual | | | |
| Test Fun | nction | Yes | | | |
| | Start Time | NA | NA | 0.2 to 30s | |
| Time | Delay Time | As per trip class | As per trip class | 0.2 to 10s | |
| Delay | Auto Reset Time | 3-15 min (As per trip class) | 3-15 min (As per trip class) | 6 min | |
| | ON Delay | 60 ms to 700 ms | | | |
| Setting A | Accuracy | ± 5% | | | |
| Repeat A | Accuracy | ± 2% | | | |
| | Relay Output | elay Output 1 C/O | | | |
| Output | Contact Rating | 5A @ 240 VAC (Resistive) | | | |
| Output | Electrical Life | 1 x 10 ⁵ | | | |
| | Mechanical Life | 1 x 10 ⁷ | | | |
| Utilization Category AC - 15 Rated | | Rated Voltage (Ue): 120/240 V, Rated Current (Ie): 3.0/1.5 A | | | |
| LED Ind | ications | ON: Power ON, UL: Underload, C | DL: Overload | | |
| | ng Temperature Temperature | - 10° C to +60° C - 25° C to +70° C | | | |
| Humidity | (Non Condensing) | 95% (Rh) | | | |
| Enclosu | re | Flame Retardant UL94-V0 | | | |
| Dimension (W x H x D) (in mm) 110 X 36.5 X 76.8 | | | | | |
| Weight (| (unpacked) Approx. | 210 g | | | |
| Mounting | g | Base Mounting | | | |
| Certifica | tion | C E Rolls Compliant | | | |
| Degree | of Protection | IP 20 for Enclosure | | | |

EMI / EMC

| Harmonic Current Emissions ESD | IEC 61000-3-2 IEC 61000-4-2 |
|-----------------------------------|--------------------------------|
| Radiated Susceptibility | IEC 61000-4-3 |
| Electrical Fast Transients | IEC 61000-4-4 |
| Surges | IEC 61000-4-5 |
| Conducted Susceptibility | IEC 61000-4-6 |
| Voltage Dips & Interruptions (AC) | IEC 61000-4-11 |
| Conducted Emission | CISPR 14-1 |
| Radiated Emission | CISPR 14-1 |

Environmental

| Cold Heat | IEC 60068-2-1 |
|----------------------|----------------|
| Dry Heat | IEC 60068-2-2 |
| Vibration | IEC 60068-2-6 |
| Repetitive Shock | IEC 60068-2-27 |
| Non-Repetitive Shock | IEC 60068-2-27 |
| | |



Ordering Information

| Cat. No. | Trip Type | Current | Auto Reset Time |
|-----------|-----------|-------------|-----------------------|
| 17A122CB0 | Inverse | 3 A - 9 A | As per trip class |
| 17A222CB0 | Inverse | 8 A - 24 A | As per trip class |
| 17A322CB0 | Inverse | 15 A - 45 A | As per trip class |
| 17A422CB0 | Inverse | 2 A - 5 A | As per trip class |
| 17B122AA0 | Definite | 3 A - 9 A | 6 min |
| 17B222AA0 | Definite | 8 A - 24 A | 6 min |
| 17B322AA0 | Definite | 15 A - 45 A | 6 min |
| 17B422AA0 | Definite | 2 A - 5 A | 6 min |
| 17B122PA0 | Definite | 3 A - 9 A | Instant (< 500 msec) |
| 17B222PA0 | Definite | 8 A - 24 A | Instant (< 500 msec) |
| 17B322PA0 | Definite | 15 A - 45 A | Instant (< 500 msec) |
| 17B422PA0 | Definite | 2 A - 5 A | Instant (< 500 msec) |



| Cat. I | No. | 17A122CB0 | 17B222AA0 | 17A322CB0 | |
|-------------------------------|------------------------------|--|---------------------------------------|--|--|
| Parame | eters | | | | |
| Supply \ | Voltage (中) | 220 - 415 VAC (3 Phase, 3 Wire) | | | |
| Supply \ | Variation | -20% to +15% of (中) | | | |
| Frequer | ncy | 50/60 Hz | | | |
| Power C | Consumption (Max.) | 12 VA | | | |
| | Trip Type | Inverse Time | Definite Time | Inverse Time | |
| | Tripping Class | 10A, 10, 20, 30 | NA | 10A, 10, 20, 30 | |
| | Current Ranges | 3 - 9 A | 8 - 24 A | 15 - 45 A | |
| Trip | Thermal Memory | Yes | NA | Yes | |
| Settings | Phase Reverse Protection | Yes / (100 ms Approx.) | | | |
| | Phase Loss | 70% of Unbalance | | | |
| | Current unbalance Protection | 50% of Unbalance | | | |
| | Underload | 40% to 90% | 50% | 40% to 90% | |
| | Locked Rotor Protection | 400% of the set value | NA | 400% of the set value | |
| Number | of In-Built CT's | 2 | | | |
| Reset Mode | | Auto, Manual | | | |
| Test Fur | nction | Yes | | | |
| | Start Time | NA | 0.2 to 30s | NA | |
| Time | Delay Time | NA | 0.2 to 10s | NA | |
| Delay | Auto Reset Time | 3-15 min (As per trip class) | 6 min | 3-15 min (As per trip class | |
| | ON Delay | 450 ms (±50ms) | | | |
| Setting | Accuracy | ± 5% | | | |
| Repeat | Accuracy | ± 2% | | | |
| • | Relay Output | 1 C/O | | | |
| 0 | Contact Rating | 5A @ 240 VAC (Resistive) | | | |
| Output | Electrical Life | 1 x 10 ⁵ | | | |
| | Mechanical Life | 1 x 10 ⁷ | | | |
| Utilizatio | on Category AC - 15 | Rated Voltage (Ue): 120/240 V, Ra | ated Current (Ie): 3.0/1.5 A | | |
| LED Inc | dications | Separate indications for Phase Asymmetry | etry, Phase Loss & Phase Sequence / R | Reverse, Power ON, Underload & Overloa | |
| | ng Temperature | - 10° C to +60° C | | | |
| | Temperature | - 25° C to +70° C | | | |
| Humidity (Non Condensing) | | 95% (Rh) | | | |
| Enclosure | | Flame Retardant UL94-V0 | | | |
| Dimension (W x H x D) (in mm) | | 110 X 36.5 X 76.8 | | | |
| Weight | (unpacked) Approx. | 210 g | | | |
| Mountin | ıg | Base Mounting | | | |
| Certifica | ation | CE ROHS Compliant | | | |
| Degree | of Protection | IP 20 for Enclosure | | | |

EMI / EMC

| Harmonic Current Emissions | IEC 61000-3-2 |
|-----------------------------------|----------------|
| ESD | IEC 61000-4-2 |
| Radiated Susceptibility | IEC 61000-4-3 |
| Electrical Fast Transients | IEC 61000-4-4 |
| Surges | IEC 61000-4-5 |
| Conducted Susceptibility | IEC 61000-4-6 |
| Voltage Dips & Interruptions (AC) | IEC 61000-4-11 |
| Conducted Emission | CISPR 14-1 |
| Radiated Emission | CISPR 14-1 |

Environmental

 Cold Heat
 IEC 60068-2-1

 Dry Heat
 IEC 60068-2-2

 Vibration
 IEC 60068-2-6

 Repetitive Shock
 IEC 60068-2-27

 Non-Repetitive Shock
 IEC 60068-2-27

TERMINAL TORQUE & CAPACITY

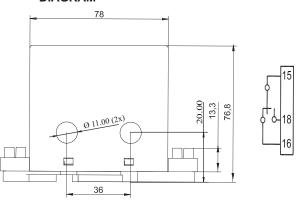
| Ø 3.5 | 0.45 N.m (4 Lb.in) |
|-------|---|
| | 1 x 2.5 mm ² Solid Wire/Stranded |
| AWG | 1 x 22 to 12 |

Note: 2 A - 5A products can be used with external CT. Load wires to be passed through the external CT and Secondary's wire terminals are to be looped through the Product CT.

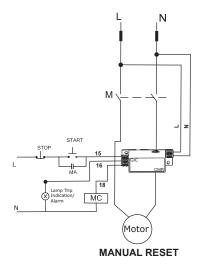
MOUNTING DIMENSION (mm)

6.80 6.80 6.80 R2.40(2x) 110,8

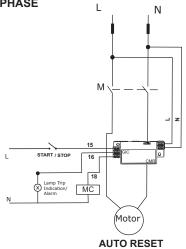
RELAY CONNECTION DIAGRAM



CONNECTION DIAGRAM



SINGLE PHASE



THREE PHASE

