Description
The 350 Series is a heavy-duty voltage monitor. This product should be used when high current relays or dual contacts are required, or 480V controls are used. Since the 350 Series uses heavy-duty relays, it comes in fixed voltage range models rather than a dual auto-ranging version like the Model 250.

The 350200 has a 15A general purpose contact. The 350400 provides a SPDT (Form C) relay rated to switch up to 600V, allowing the use of 480V controls, eliminating the need for a control power transformer to step the voltage down to 120-240V. Several DPDT (two Form C contacts) relay models are also available.

The 350 microcontroller-based family of products are low cost yet highly advanced solutions to heavy-duty problems. The 350 includes advanced single LED diagnostics. Five different light patterns distinguish faults and normal operating conditions. Other options such as high voltage trip and adjustable restart delay are available.

Features & Benefits

<table>
<thead>
<tr>
<th>FEATURES</th>
<th>BENEFITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proprietary microcontroller based circuitry</td>
<td>Constantly monitors 3 phase voltage to protect against harmful line conditions, even before the motor is started</td>
</tr>
<tr>
<td>Advanced LED indication</td>
<td>Provides diagnostics which can be used for troubleshooting and to determine relay status</td>
</tr>
<tr>
<td>Adjustable restart delay (-2 models) settings</td>
<td>Allows staggered start up of multiple motors, after a fault, to prevent a low voltage condition</td>
</tr>
<tr>
<td>600V rated relay contacts available on some models</td>
<td>Eliminates the need for a control transformer to step voltage down to 120 - 240V for a control circuit</td>
</tr>
</tbody>
</table>

Ordering Information

<table>
<thead>
<tr>
<th>MODEL</th>
<th>LINE VOLTAGE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>350200</td>
<td>190-240VAC</td>
<td>SPDT, fixed trip and restart delay</td>
</tr>
<tr>
<td>3502002</td>
<td>190-240VAC</td>
<td>SPDT, fixed trip and variable restart delay (manual, 2-300s)</td>
</tr>
<tr>
<td>35020026</td>
<td>190-240VAC</td>
<td>DPDT, 2 relays (1)10a. (1) 15A; fixed trip and variable restart delay (manual, 2-300s)</td>
</tr>
<tr>
<td>35020028**</td>
<td>190-240VAC</td>
<td>DPDT, 2 relays 15A; variable restart delay (no manual reset)</td>
</tr>
<tr>
<td>35020029</td>
<td>190-240VAC</td>
<td>SPDT, fixed trip and variable restart delay (manual, 2-300s), plus high voltage detection</td>
</tr>
<tr>
<td>350400</td>
<td>380-480VAC</td>
<td>SPDT, fixed trip and restart delay</td>
</tr>
<tr>
<td>3504002</td>
<td>380-480VAC</td>
<td>SPDT, fixed trip and variable restart delay (manual, 2-300s)</td>
</tr>
<tr>
<td>35040025</td>
<td>380-480VAC</td>
<td>DPDT, fixed trip and variable restart delay (manual, 2-300s)</td>
</tr>
<tr>
<td>35040029</td>
<td>380-480VAC</td>
<td>SPDT, fixed trip and variable restart delay (manual, 2-300s), plus high voltage detection</td>
</tr>
<tr>
<td>35040025</td>
<td>380-480VAC</td>
<td>SPDT, fixed trip and variable restart delay (manual, 2-300s)</td>
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<tr>
<td>35040029</td>
<td>380-480VAC</td>
<td>SPDT, fixed trip and variable restart delay (manual, 2-300s)</td>
</tr>
<tr>
<td>350600</td>
<td>475-600VAC</td>
<td>SPDT, fixed trip and restart delay</td>
</tr>
<tr>
<td>3506002</td>
<td>475-600VAC</td>
<td>SPDT, fixed trip and restart delay (manual, 2-300s)</td>
</tr>
<tr>
<td>35060026</td>
<td>475-600VAC</td>
<td>DPDT, 2 relays (1)10a. (1) 15A; fixed trip and variable restart delay (manual, 2-300s)</td>
</tr>
<tr>
<td>35060028**</td>
<td>475-600VAC</td>
<td>DPDT, 2 relays 15A; variable restart delay (no manual reset)</td>
</tr>
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<td>SPDT, fixed trip and variable restart delay (manual, 2-300s), plus high voltage detection</td>
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</table>

** These units are not equipped with Manual Reset.

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Specifications

Input Characteristics
Line Voltage
350200 190-240VAC
350400 380-480VAC
350600 475-600VAC
Frequency 50*/60Hz

Functional Characteristics
Low Voltage (% of setpoint)
Trip 90%
Reset 93%

Voltage Unbalance (NEMA)
Trip 6%
Reset 4.5%

Trip Delay Time:
Low Voltage 4 seconds
Unbalance & Phasing Faults 2 seconds

Restart Delay Time
After a Fault 2 seconds
After a Complete Power Loss 2 seconds

Output Characteristics
Output Contact Rating
SPDT (350200) 480VA @ 240VAC
General Purpose 15A
SPDT (350-400, 350-600) 470VA @ 600VAC
DPDT (-6 Option) 480VA @ 240VAC Pilot Duty
1-10A General Purpose
1-15A General Purpose
1hp @ 240VAC

DPDT (-8 Option)
2-15A General Purpose
480VA @ 240VAC Pilot Duty
1hp @ 240VAC

Specifications (Cont.)

General Characteristics
Ambient Temperature Range
Operating -40° to 70°C (-40° to 158°F)
Storage -40° to 80°C (-40° to 176°F)

Trip & Reset Accuracy ±1%
Maximum Input Power 5 W

Terminal
Torque 7 in.-lbs.
Wire Size 12-18AWG

Safety Marks
UL UL508 (File #E68520)
CSA 22.2 No. 14 (File #46510)
CE IEC 60947-6-2

Dimensions
H 74.42 mm (2.93”)
W 133.86 mm (5.27”)
D 74.93 mm (2.95”)
Weight 1.05 lbs. (16.8 oz., 476.27 g)
Mounting Method #8 screws

Special Options
Opt. 5: DPDT Relay
Opt. 6: 2 Relays (1) 10A, (1) 15A
Opt. 8: 2 Relays (2) 15A
Opt. 9: High Voltage (% of setpoint)
Trip 110%
Reset 107%

*Note: 50Hz will increase all delay timers by 20%.