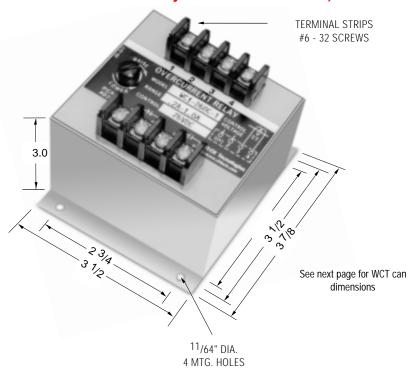
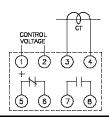


WILMAR™ Protective Relays - WC1 & WCT1 Series, Overcurrent



Note: Dimensions in inches. Multiply values by 25.4 for dimensions in mm.



Time Delay

Standard Time Delay (WC1 Series)

A fixed inverse time delay is incorporated in all overcurrent relays and is represented by the typical curves shown. Adjustable Time Delay (WCT1 Series)

The time delay is field adjustable. The standard time delay can be increased by any value between 0.5 and 20 seconds.

| PRODUCT SPECIFICATIONS | | |
|----------------------------------|---|--|
| Part Number | WC1 & WCT1 | |
| Line Current | Single Phase, AC current, 50-400 Hz Direct or from CT | |
| Control Voltage | See Part Number Selection | |
| Trip Point | Screwdriver adjustable. Adjustment range in accordance with ordering information. | |
| Pick-Up to Drop-Out Differential | Approximately 0.1 amp. | |
| Overcurrent Allowance | Maximum of 500% for 0.25 seconds | |
| Surge Withstand Capabiliy | In compliance with C37.90B ANSI/IEEE | |
| Operating Temperature | -40°C to +70°C | |
| Temperature Drift | ± .05% | |
| Burden | Current input: 1.2 VA, Control voltage: 2.5 VA | |
| Contact Ratings | One set, N.O., One set N.C. 5 amp resistive at 120 VAC or 28 VDC | |

Notes:

- 1. Remove black screws for access to the current pick-up and the time delay adjustment.
- 2. Clockwise rotation of the pick-up adjustment will raise the current trip point.
- 3. Clockwise rotation of the time delay adjustment, (Type WCT1 only) will increase the time delay.

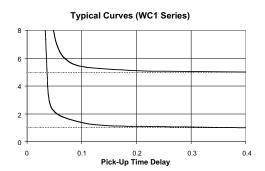
Function: 50/51

- ANSI/IEEE C37.90-1978
- UL file No. E58048
- CSA file No. LR61158





Current sensitive relays are available for single and three phase applications. Voltage controlled overcurrent relays protect generators against fault currents below the full rated value, when the fault produces a voltage drop as in the case of short circuits or grounds. Phase balance relays are available to sense and control unbalanced current flow in three phase systems. Current differential relays operate when the differential between two currents exceeds preset values. Over/under current phase-band relays are also available.

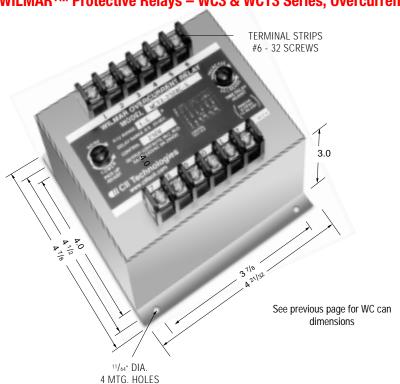


PART NUMBER SELECTION Sample Part No. WCT1-48DC-5-B Type: -WC1 = Per Time Curves WCT1 = Adjustable Time Delay Control Voltage (+/- 15%) -26 DC 48 DC 125 DC 120 AC 230 AC 380 AC 460 AC Trip Adjustment Range 1 = .2 amp - 1 amp5 = 1 amp to 5 amp 10 = 2 amp to 10 ampOther Options A = Two normally open contacts B = Two normally closed contacts

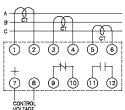
See next pages for 3-phase types and consult factory for additional models.



WILMAR™ Protective Relays – WC3 & WCT3 Series, Overcurrent



Note: Dimensions in inches. Multiply values by 25.4 for dimensions in mm.



Time Delay

Standard Time Delay (WC3 Series)

A fixed inverse time delay is incorporated in all overcurrent relays and is represented by the typical curves shown.

Adjustable Time Delay (WCT3 Series)

The time delay is field adjustable. The standard time delay can be increased by any value between 0.5 and 20 seconds.

| | VOLTAGE | and the mercanes of any raise services and 20 coomain |
|------------------------|----------------------------------|---|
| PRODUCT SPECIFICATIONS | | ODUCT SPECIFICATIONS |
| | Part Number | WC3 & WCT3 |
| | Line Current | Three Phase, AC current, 50-400 Hz Direct or from CT |
| | Control Voltage | See Part Number Selection |
| | Trip Point | Screwdriver adjustable. Adjustment range in accordance with ordering information. |
| | Pick-Up to Drop-Out Differential | Approximately 0.1 amp |
| | Overcurrent Allowance | Maximum of 500% for 0.25 seconds |
| | Surge Withstand Capabiliy | In compliance with the requirements of ANSI/IEEE |
| | Operating Temperature | -40°C to +70°C |
| | Temperature Drift | ± 0.05%/°C |
| | Burden | Current input: 1.2 VA, Control voltage: 2.5 VA |
| | Contact Ratings | One set, N.O., One set N.C. 5 amp resistive at 120 VAC or 28VDC |

Notes:

- 1. Remove black screws for access to the current pick-up and the time delay adjustment.
- 2. Clockwise rotation of the pick-up adjustment will raise the current trip point.
- 3. Clockwise rotation of the time delay adjustment, (Type WCT3 only) will increase the time delay.

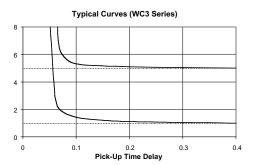
Function: 50/51

- ANSI/IEEE C37.90-1978
- UL file No. E58048CSA file No. LR61158





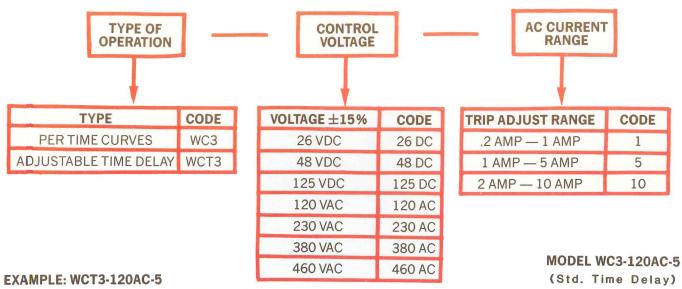
Current sensitive relays are available for single and three phase applications. Voltage controlled overcurrent relays protect generators against fault currents below the full rated value, when the fault produces a voltage drop as in the case of short circuits or grounds. Phase balance relays are available to sense and control unbalanced current flow in three phase systems. Current differential relays operate when the differential between two currents exceeds preset values. Over/under current phase-band relays are also available.



PART NUMBER SELECTION Sample Part No. WCT3-48DC-5A Type: -WC3 = Per Time Curves WCT3 = Adjustable Time Delay Control Voltage (+/- 15%) 26 DC 48 DC 125 DC 120 AC 230 AC 380 AC 460 AC Trip Adjustment Range 1 = .2 amp to 1 amp 5 = 1 amp to 5 amp 10 = 2 amp to 10 ampOther Options -A = Two normally open contactsB = Two normally closed contacts

See previous page for 1-phase models and consult factory for additional models.

THREE PHASE OVERCURRENT RELAYS ORDERING INFORMATION



This indicates an Overcurrent Relay with an adjustable time delay up to 20 seconds. The control voltage is 120VAC, and the current trip point is adjustable from 1.0 amp to 5.0 amp.

STANDARD TIME DELAY (WC3 SERIES)

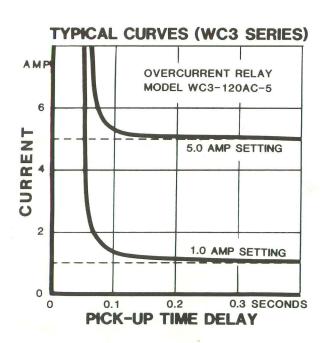
A fixed inverse time delay is incorporated in all overcurrent relays and is represented by the typical curve shown below.

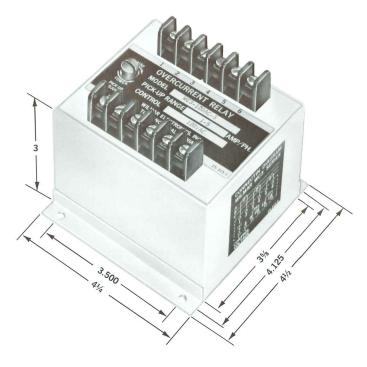
ADJUSTABLE TIME DELAY (WCT3 SERIES)

The time delay is field adjustable. The standard time delay can be increased by any value between 0.5 and 20 seconds.

OUTPUT CONTACT OPTIONS

- 1. Two normally open (Add -A to model number)
- 2. Two normally closed (Add -B to model number)





CONNECTION DIAGRAM

