



# ICL™ INRUSH CURRENT LIMITERS

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|  | <p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>▪ PC board mountable</li> <li>▪ Rugged Design</li> <li>▪ Solderable leads</li> <li>▪ High quality</li> <li>▪ Low cost</li> </ul> |
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All illustration dimensions are in inches.

Fenwal Electronics INRUSH CURRENT LIMITERS are a cost-effective way of limiting the Inrush of current that can damage components in a switching power supply and other power devices when the equipment is turned on.

| Inrush Current Limiter Specifications      |   |
|--|---|
| Resistance @ 25°C, ± 20%                   | 0.5 to 220 ohms                           |
| Maximum Steady State Current               | 1 to 30 amperes                           |
| Resistance at Maximum Steady State Current | 0.01 to 2.34 ohms                         |
| Operating Temperature                      | -40° to +185°C                            |
| Storage Temperature                        | -40° to +220°C                            |
| Lead Pull Strength                         | 1 kg, applied in axial direction          |
| Solderability of Leads                     | More than 95%                             |
| Lead Construction                          | Straight tinned copper (kinked available) |
| Coating                                    | Black silicone                            |
| Physical Dimensions                        |   |
| Maximum Diameter                           | 9.5 mm [0.374"] to 32.0 mm [1.260"]       |
| Maximum Thickness                          | 5.0 mm [0.204"] to 8.0 mm [0.327"]        |
| Lead Diameter                              | 0.8 mm [0.032"] to 1.0 mm [0.040"]        |

## Standard ICL Specifications

| Part Number   | Resistance<br>25°C<br>(Ohms) | Maximum Steady<br>State Current<br>(Amperes) | Resistance @ Max<br>Steady State Current<br>(Ohms) | "D" Maximum<br>Coated Diameter |          | "T" Maximum<br>Coated Thickness |          | Lead Diameter |          |
|---------------|------------------------------|--|--|--------------------------------|----------|---------------------------------|----------|---------------|----------|
|               |                              |  |  | (mm)                           | (Inches) | (mm)                            | (Inches) | (mm)          | (Inches) |
| ICL320R530-01 | 0.5                          | 30   | 0.01   | 32                             | 1.26     | 8                               | 0.327    | 1             | 0.04     |
| ICL221R020-01 | 1                            | 20   | 0.02   | 22                             | 0.866    | 6                               | 0.245    | 1             | 0.04     |
| ICL321R030-01 | 1                            | 30   | 0.02   | 32                             | 1.26     | 6                               | 0.245    | 1             | 0.04     |
| ICL222R018-01 | 2                            | 18   | 0.03   | 22                             | 0.866    | 6                               | 0.245    | 1             | 0.04     |
| ICL152R508-01 | 2.5                          | 8  | 0.07   | 15                             | 0.591    | 6                               | 0.245    | 0.8           | 0.032    |
| ICL222R508-01 | 2.5                          | 8  | 0.06   | 22                             | 0.866    | 6                               | 0.245    | 1             | 0.04     |
| ICL222R515-01 | 2.5                          | 15   | 0.03   | 22                             | 0.866    | 6                               | 0.245    | 1             | 0.04     |
| ICL155R006-01 | 5                            | 6  | 0.1  | 15                             | 0.591    | 6                               | 0.245    | 0.8           | 0.032    |
| ICL155R007-01 | 5                            | 7  | 0.07   | 15                             | 0.591    | 6                               | 0.245    | 0.8           | 0.032    |
| ICL1010002-01 | 10                           | 2  | 0.3  | 9.5                            | 0.374    | 5                               | 0.204    | 0.5           | 0.020    |
| ICL1010004-01 | 10                           | 3.2  | 0.18   | 9.5                            | 0.374    | 5                               | 0.204    | 0.5           | 0.020    |
| ICL1210005-01 | 10                           | 5  | 0.13   | 11.5                           | 0.453    | 5                               | 0.204    | 0.8           | 0.032    |
| ICL1510006-01 | 10                           | 6  | 0.15   | 15                             | 0.591    | 6                               | 0.245    | 0.8           | 0.032    |
| ICL2210008-01 | 10                           | 8  | 0.1  | 22                             | 0.866    | 6                               | 0.245    | 1             | 0.04     |
| ICL1512004-01 | 12                           | 4  | 0.26   | 15                             | 0.591    | 6                               | 0.245    | 0.8           | 0.032    |
| ICL1516004-01 | 16                           | 4  | 0.27   | 15                             | 0.591    | 6                               | 0.245    | 0.8           | 0.032    |
| ICL1220002-01 | 20                           | 2  | 0.5  | 11.5                           | 0.453    | 5                               | 0.204    | 0.8           | 0.032    |
| ICL1240002-01 | 40                           | 2  | 0.6  | 12                             | 0.470    | 5                               | 0.204    | 0.8           | 0.032    |
| ICL1250002-01 | 50                           | 2  | 0.72   | 11.5                           | 0.453    | 5                               | 0.204    | 0.8           | 0.032    |
| ICL1580003-01 | 80                           | 2.5  | 0.75   | 15                             | 0.591    | 6                               | 0.245    | 0.8           | 0.032    |
| ICL2212103-01 | 120                          | 3  | 0.9  | 22                             | 0.866    | 6                               | 0.245    | 1             | 0.04     |
| ICL1522102-01 | 220                          | 2  | 0.8  | 15                             | 0.591    | 5                               | 0.204    | 0.8           | 0.032    |

Custom Designs are available to meet the specific needs of your unique application.

