



EHI C € EK

Features

- 23A inrush limiting current, 16A continuous
- 180~264VAC AC input
- Integrated bypass relay, no simple NTC
- · Internal thermal protection
- Installed on DIN Rail TS-35/7.5 or 15 (ICL-16R)
- · -30~+70°C wide working temperature
- 3 years warranty

Applications

- Allow connecting multiple power supply at same line
- · Allows smaller and faster Circuit Breaker
- · Capacitive load
- Protects against unintended trigger of Circuit Breaker

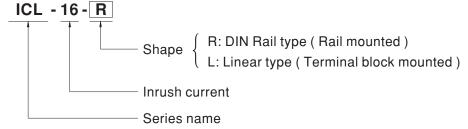
■ GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

The ICL-16 is a 16A inrush current limiter that can be used to reduce the high starting current due to capacitive load causing the circuit breaker to be false triggered. Several power supplies can be installed on the same AC line after the implementation of an ICL-16.

■ Model Encoding





16A AC Inrush Current Limiter

SPECIFICATION MODEL ICL-16R ICL-16L 180 ~ 264VAC **AC INPUT VOLTAGE AC LINE FREQUENCY** 47 ~ 63Hz **INRUSH CURRENT LIMITING** 23A **AC CONTINUOUS RATED CURRENT** 16A continuous **AC INPUT POWER** 3680VA (16A x 230VAC) **AC INPUT CONSUMPTION** <1.5W at 264VAC,50Hz input INTERNAL RELAY LIMITING TIME $300 \pm 50 \text{ms}$ (TON POWER ON) PSU Set up time<250ms PSU Set up time 250 ~ 350ms PSU Set up time >350ms LIMITING CYCLES INTERNAL RELAY 1 cycle / 5 min 1 cycle / 1 min 5 cycle / 1 min (>1500ms per cycle) **RELEASE TIME** 500±50ms INTERNAL PROTECTION Thermal fuse protects overload and fire 2500 μ F max. ALLOWED CAPACITIVE LOAD -30 ~ +70°C WORKING TEMP. 20 ~ 90% RH non-condensing **WORKING HUMIDITY** STORAGE TEMP. **TEMP. COEFFICIENT** $\pm 0.03\%$ /°C (0 ~ 50°C) RH non-condensing 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes; **VIBRATION** Mounting: Compliance to IEC60068-2-6 **OPERATING ALTITUDE** (NOTE 2) 5000 meters III; According to IEC62368-1; dtitude up to 5000 meters **OVER VOLTAGE CATEGORY POLLUTION DEGREE** LVD BS EN/EN62368-1 approved SAFETY STANDARDS Test Level / Note Parameter Standard BS EN/EN55032 Conducted Class B BS EN/EN55032 Radiated Class B **EMC EMISSION** Harmonic Current BS EN/EN61000-3-2 Class A Voltage Flicker BS EN/EN61000-3-3 BS EN/EN55035,BS EN/EN61000-6-2 **SAFETY & Parameter** Standard Test Level /Note EMC BS EN/EN61000-4-2 **ESD** Level 3, 8KV air; Level 2, 4KV contact, criteria A (Note.3) BS EN/EN61000-4-3 Radiated Susceptibility Level 3, criteria A Level 3, criteria A BS EN/EN61000-4-4 **EMC IMMUNITY** EFT/Burest BS EN/EN61000-4-5 Level 4,2KV/L-N, criteria A Surge Conducted BS EN/EN61000-4-6 Level 3, criteria A Magnetic Field BS EN/EN61000-4-8 Level 4, criteria A >95% dip 0. 5 periods, 30% dip 25 periods, Voltage Dips and interruptions BS EN/EN61000-4-11 >95% interruptions 250 periods 7229.0K hrs min. Telcordia SR-332 (Bellcore); 7217.9K hrs min. Telcordia SR-332 (Bellcore); MTBF 2157.3K hrs min. MIL-HDBK-217F (25°C) 2113, 8K hrs min. MIL-HDBK-217F (25°C) DIMENSION 35*90*54.5mm (L*W*H) 175*42*24mm (L*W*H) 0.132Kg; 98pcs/14Kg/1.04CUFT **PACKING** 0.116Kg; 96pcs/12.2Kg/1.04CUFT of ambient temperature. 2. The ambient temperature derating of $3.5^{\circ}\text{C}/1000\text{m}$ with fanless models and of $5^{\circ}\text{C}/1000\text{m}$ with fan models for operating altitude higher than 2000m(6500ft). 3. The power supply is considered as an independent unit, but the final equipment still need to NOTE re-confirm that the whole system complies with the EMC directives. For guidance on how to

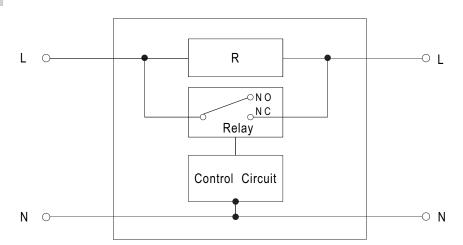
perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)

* Product Liability Disclaimer: For detailed information, please refer to

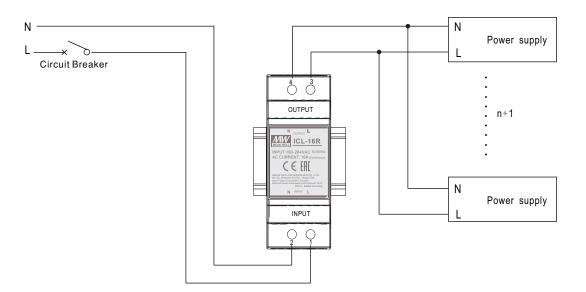
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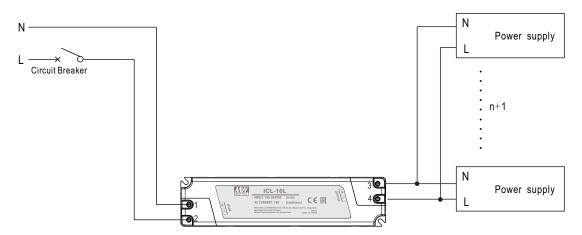


■ BLOCK DIAGRAM



■ APPLICATION DIAGRAM



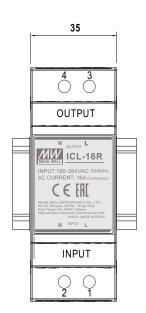


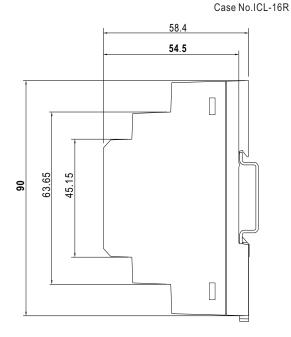
** How many power supplys can be connected behind ICL-16R/ICL-16L?
Please refer to: http://www.meanwell.com.



■ MECHANICAL SPECIFICATION

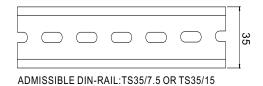
○ ICL-16R(DIN Rail type) (Unit: mm , tolerance ± 1mm)





Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
1	AC/L Input	3	AC/L Output
2	AC/N Input	4	AC/N Output

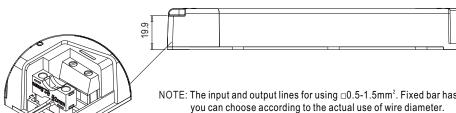


ICL-16L(Linear type)

(Unit: mm , tolerance ± 1mm)

Case No.PLM-40





NOTE: The input and output lines for using $\[\Box 0.5 - 1.5 \text{mm}^2 \]$. Fixed bar has 1.5 mm, 2.0 mm, 3.0 mm four grooves,

Terminal Pin No. Assignment (TB1,TB2) SWITCHLAB MB312-750 equivalent

Pin No.	Assignment	Pin No.	Assignment
1	AC/N Input	3	AC/N Input
2	AC/L Input	4	AC/L Input