



(ICL-28R)

(ICL-28L)

FHI C€

Features

- 48A inrush limiting current, 28A 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-28R)
- · -30~+70°C wide working temperature
- Over voltage category Ⅲ
- Operating altitude up to 5000 meters(Note. 2)
- 3 years warranty

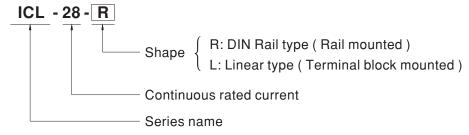
Applications

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

Description

The ICL-28 is a 28A 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-28.

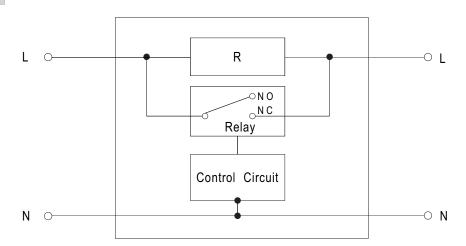
■ Model Encoding



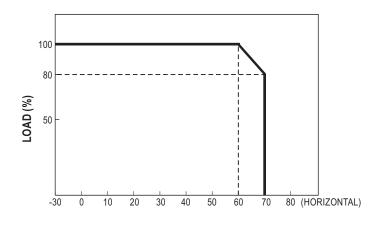
SPECIFICATION MODEL ICL-28R ICL-28L **AC INPUT VOLTAGE** 180 ~ 264VAC 180 ~ 264VAC **AC LINE FREQUENCY** 47 ~ 63Hz **INRUSH CURRENT LIMITING** 48A AC CONTINUOUS RATED CURRENT 28A continuous **AC INPUT POWER** 6440VA (28A x 230VAC) **AC INPUT CONSUMPTION** <2W at 264VAC, 50Hz input INTERNAL RELAY LIMITING TIME $150 \pm 50 ms$ (TON POWER ON) LIMITING CYCLES 3 cycle / 1 min INTERNAL RELAY RELEASE TIME 100±50ms INTERNAL PROTECTION Thermal fuse protects overload and fire ALLOWED CAPACITIVE LOAD 6000 μ F max. WORKING TEMP. -30 ~ +70°C (Refer to "Derating Curve") 20 ~ 90% RH non-condensing **WORKING HUMIDITY** STORAGE TEMP. -40 ~ +85°C TEMP. COEFFICIENT $\pm 0.03\%$ /°C (0 ~ 60°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; altitude up to 5000 meters **OVER VOLTAGE CATEGORY POLLUTION DEGREE** IEC62368-1(LVD) SAFETY STANDARDS Standard Test Level / Note **Parameter** Conducted EN55032 Class B EN55032 Class B Radiated **EMC EMISSION** Harmonic Current EN61000-3-2 Class A Voltage Flicker EN61000-3-3 EN55024, EN55035, EN61000-6-2 **SAFETY &** Test Level /Note **Parameter** Standard **EMC** ESD EN61000-4-2 Level 3, 8KV air; Level 2, 4KV contact, criteria A (Note.3) EN61000-4-3 Radiated Susceptibility Level 3, criteria A EN61000-4-4 **EMC IMMUNITY** EFT/Burest Level 3, criteria A EN61000-4-5 Level 4.2KV/L-N. criteria A Surge Level 3, criteria A EN61000-4-6 Conducted Magnetic Field EN61000-4-8 Level 4, criteria A >95% dip 0. 5 periods, 30% dip 25 periods, Voltage Dips and interruptions FN61000-4-11 >95% interruptions 250 periods MTBF 1601.76K hrs min. MIL-HDBK-217F (25°C) 1626.62K hrs min. MIL-HDBK-217F (25°C) DIMENSION 52.5*90*54.5mm (L*W*H) 175*42*24mm (L*W*H) 0.16Kg; 80pcs/13.8Kg/1.23CUFT 0.155Kg; 84pcs/14Kg/0.91CUFT **PACKING** 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25° C of ambient temperature. 2. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). NOTE 3. The power supply is considered as an independent unit, but the final equipment still need to 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 http://www.meanwell.com) * Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



■ BLOCK DIAGRAM

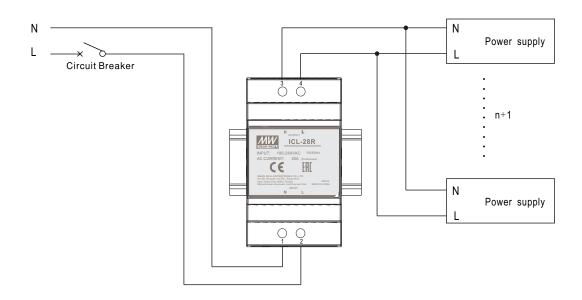


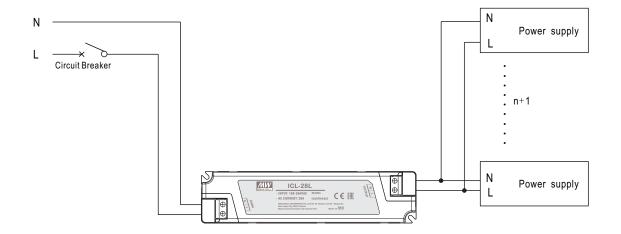
■ Derating Curve



AMBIENT TEMPERATURE (°C)

■ APPLICATION DIAGRAM

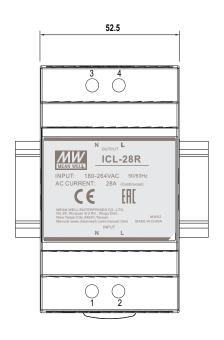


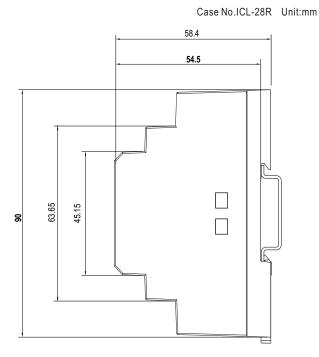


* How many power supplys can be connected behind ICL-28R/ICL-28L? Please refer to: http://www.meanwell.com.



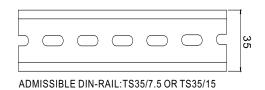
■ MECHANICAL SPECIFICATION





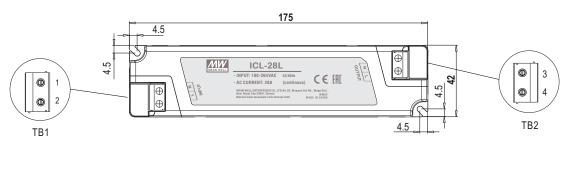
Terminal Pin No. Assignment

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



O ICL-28L(Linear type)

Case No.PLM-40 Unit:mm





Terminal Pin No. Assignment (TB1,TB2) SWITCHLAB MB422-750 equivalent

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