



# 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

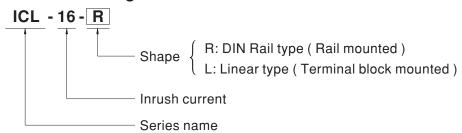
# Applications

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

# 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

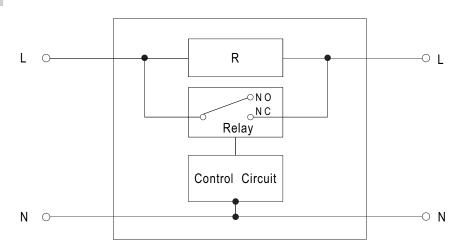


### **SPECIFICATION**

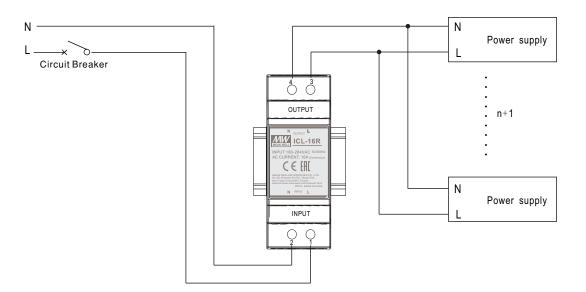
	ICL 16D		1			
	ICL-16R ICL-1		ICL-16L			
Ε	180 ~ 264VAC					
ICY	47 ~ 63Hz					
LIMITING	23A					
ONTINUOUS RATED CURRENT 16A continuous						
	3680VA (16A x 230VAC)					
MPTION	<1.5W at 264VAC,50Hz input					
IMITING TIME	300±50ms					
	PSU Set up time < 250ms PSU Set up time 250 ~ 350ms PSU Set up time > 350ms					
LIMITING CYCLES	1 cycle / 5 min			5 cycle / 1 min (>1500ms per cycle)		
RELEASE TIME						
	•					
TY						
• •						
NT	1	condensing				
N I						
	<u> </u>					
IIDE (NOTE 2)						
,						
DS						
				Test Level / Note		
EMC EMISSION	Conducted	BS EN/EN55032		Class B		
	Radiated	BS EN/EN55032		Class B		
	Harmonic Current	BS EN/EN61000-3-2		Class A		
	Voltage Flicker BS EN/EN61000-3-3					
EMC IMMUNITY	BS EN/EN55024, BS EN/EN55035,BS EN/EN61000-6-2					
	Parameter	Standard		Test Level /Note		
	ESD	BS EN/EN61000-4-2		Level 3, 8KV air; Level 2, 4KV contact, criteria A		
	Radiated Susceptibility	BS EN/EN61000-4-3		Level 3, criteria A		
	EFT/Burest	BS EN/EN61000-4-4		Level 3, criteria A		
	Surge	BS EN/EN61000-4-5		Level 4,2KV/L-N, criteria A		
	Conducted	BS EN/EN61000-4-6		Level 3, criteria A		
	Magnetic Field	BS EN/EN61000-4-8		Level 4, criteria A		
	Voltage Dips and interruptions	BS EN/EN61000-4-11		>95% dip 0. 5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
	2433.76K hrs min. MIL-HDBK	-217F (25°C)	2508.62K hrs	min. MIL-HDBK-217F (25°C)		
	,		175*42*24mm (L*W*H)			
				1.132Kg; 98pcs/14Kg/1.04CUFT		
	<ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>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).</li> <li>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."         <ul> <li>(as available on http://www.meanwell.com)</li> </ul> </li> <li>Product Liability Disclaimer: For detailed information, please refer to</li> </ol>					
	MPTION LIMITING TIME  LIMITING CYCLES RELEASE TIME CTION ITIVE LOAD  TY  NT  UDE (NOTE 2) ATEGORY EE EDS  EMC EMISSION	TIMITING  23A  RATED CURRENT  3680VA (16A x 230VAC)  MPTION  <1.5W at 264VAC,50Hz input  300±50ms  PSU Set up time<250ms  1 cycle / 5 min  RELEASE TIME  500±50ms  CTION  Thermal fuse protects overload at 170°C  TY  20 ~ 90% RH non-condensing  -40 ~ +85°C  ±0.03%/°C (0 ~ 50°C) RH non-10 ~ 500Hz, 2G 10min./1cycle, pmounting: Compliance to IEC600  UDE  (NOTE 2)  5000 meters  ATEGORY  III; According to IEC62368-1; at 180°C  EMC EMISSION  Radiated  Harmonic Current  Voltage Flicker  BS EN/EN55024, BS EN/EN55035, EParameter  ESD  Radiated Susceptibility  EFT/Burest  Surge  Conducted  Magnetic Field  Voltage Dips and interruptions  2433.76K hrs min. MIL-HDBK  35*90*54.5mm (L*W*H)  0.116Kg; 96pcs/12.2Kg/1.04CUFT  1. All parameters NOT spec of ambient temperature fan models for operating at 180°C on 18	LIMITING	CLINITING   23A   16A continuous   16A continuous   3680VA (16A x 230VAC)   15W at 264VAC,50Hz input   300 ±50Ms   250Ms   2		

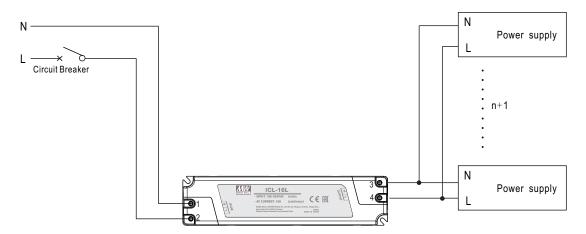


# ■ BLOCK DIAGRAM



### **■** APPLICATION DIAGRAM

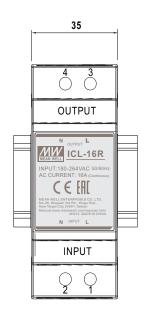


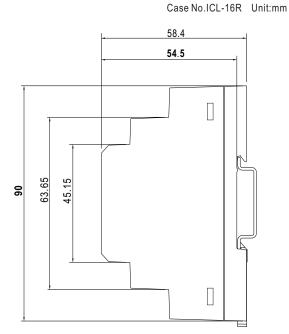


\* How many power supplys can be connected behind ICL-16R/ICL-16L? Please refer to: http://www.meanwell.com.



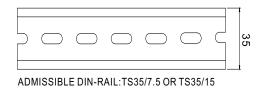
# ■ MECHANICAL SPECIFICATION





Terminal Pin No. Assignment

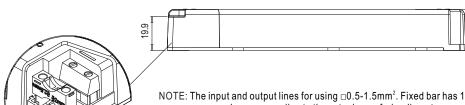
Pin No.	Assignment	Pin No.	Assignment
1	AC/L Input	3	AC/L Output
2	AC/N Input	4	AC/N Output



○ ICL-16L(Linear type)

Case No.PLM-40 Unit:mm





NOTE: The input and output lines for using  $\Box$ 0.5-1.5mm². Fixed bar has 1.5mm , 2.0mm , 2.5mm , 3.0mm four grooves, you can choose according to the actual use of wire diameter.

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