

EH[C€

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

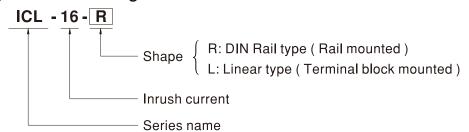
Applications

- Allow connecting multiple power supply at same line
- Allows smaller and faster Circuit Breaker
- · Inductive and 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 or inductive 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



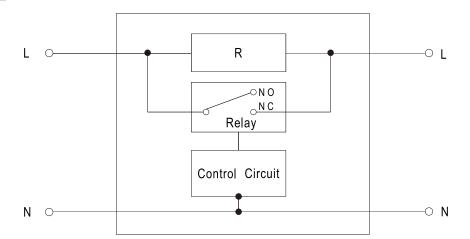
16A AC Inrush Current Limiter

SPECIFICATION

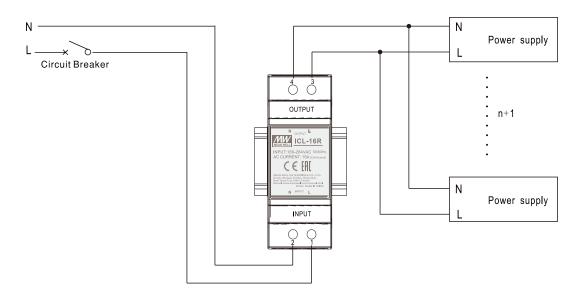
MODEL		ICL-16R ICL-16L		ICL-16L		
AC INPUT VOLTAGE		180 ~ 264VAC				
AC LINE FREQUENCY		47 ~ 63Hz				
INRUSH CURRENT	LIMITING	23A				
AC CONTINUOUS	RATED CURRENT	16A continuous				
AC INPUT POWER		3680VA (16A x 230VAC)				
AC INPUT CONSU	MPTION	<1W at 264VAC input				
INTERNAL RELAY LIMITING TIME		300±50ms				
(TON POWER ON)		PSU Set up time <250ms PSU Set up time 250 ~ 350ms PSU Set up time >350ms				
INTERNAL RELAY	LIMITING CYCLES	1 cycle / 5 min	1 cycle / 1 min	50 0001110	5 cycle / 1 min (>1500ms per cycle)	
INTERNAL NELAT						
INTERNAL PROTE	RELEASE TIME	500±50ms				
		Thermal fuse protects overload and fire				
ALLOWED CAPACITIVE LOAD		2500 μ F max.				
AC PEAK CURRENT		165A for 20ms / 800A for 200 \(\mu\) s (even while switching internal bypass relay)				
WORKING TEMP.		-30 ~ +70°C				
WORKING HUMIDI	TY	20 ~ 90% RH non-condensing				
STORAGE TEMP.		-40 ~ +85°C				
TEMP. COEFFICIE	NT	$\pm 0.03\%^{\circ}$ C (0 ~ 50 $^{\circ}$ C) RH non-condensing				
VIBRATION		10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes;				
		Mounting: Compliance to IEC60068-2-6				
OPERATING ALTITUDE (NOTE 2)		5000 meters				
OVER VOLTAGE CATEGORY		Ⅲ; According to IEC62368-1; altitude up to 5000 meters				
POLLUTION DEGREE		2				
SAFETY STANDARDS		IEC62368-1(LVD)				
		Parameter	Standard	Т	est Level / Note	
		Conducted	EN55032	C	class B	
	EMC EMISSION	Radiated	EN55032		lass B	
		Harmonic Current	EN61000-3-2		Class A	
		Voltage Flicker	EN61000-3-3			
SAFETY &	EMC IMMUNITY	EN55024, EN55035,EN61000-6-2				
		Parameter Standard		T	est Level /Note	
EMC (Note.3)		ESD	EN61000-4-2		evel 3, 8KV air; Level 2, 4KV contact, criteria A	
(1101010)		Radiated Susceptibility	EN61000-4-3		evel 3, criteria A	
		EFT/Burest	EN61000-4-4		evel 3, criteria A	
		Surge	EN61000-4-5		evel 4,2KV/L-N, criteria A	
		Conducted	EN61000-4-6		evel 3, criteria A	
		Magnetic Field	EN61000-4-8		evel 4, criteria A	
		Voltage Dips and interruptions	EN61000-4-11	>	>95% dip 0. 5 periods, 30% dip 25 periods,	
MTBF	1	2433,76K hrs min, MIL-HDBk	(_217F (25°C)	2508,62K hrs mi		
DIMENSION				175*42*24mm (L*W*H)		
PACKING		35*90*54.5mm (L*W*H) 0.116Kq; 96pcs/12.2Kq/1.04CUFT		0.132Kg; 98pcs/14Kg/1.04CUFT		
NOTE		 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 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). 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) 				

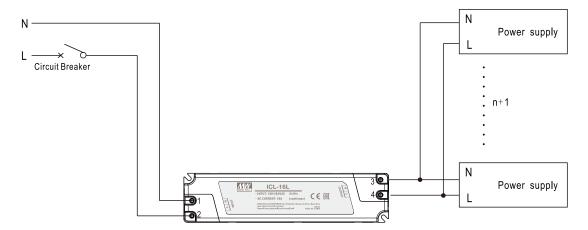


■ BLOCK DIAGRAM



■ APPLICATION DIAGRAM





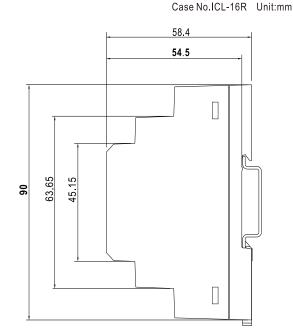
* How many power supplys can be connected behind ICL-16R/ICL-16L? Please refer to : http://www.meanwell.com/manual.html



■ MECHANICAL SPECIFICATION

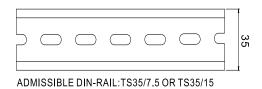
○ ICL-16R(DIN Rail type)





Terminal Pin No. Assignment

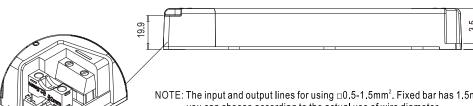
Pin No	. Assignment	Pin No.	Assignment
1	AC/L Input	3	AC/L Output
2	AC/N Input	4	AC/N Output



O ICL-16L(Linear type)

Case No.PLM-40 Unit:mm





NOTE: The input and output lines for using $\Box 0.5$ -1.5mm 2 . 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