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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

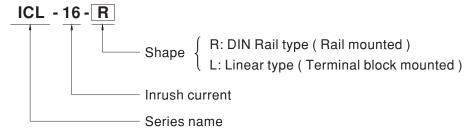
Applications

- 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.

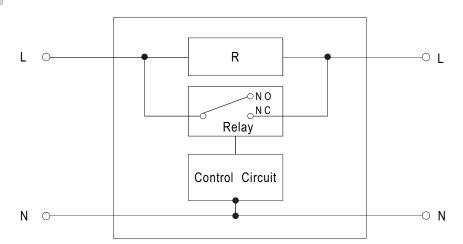
■ Model Encoding



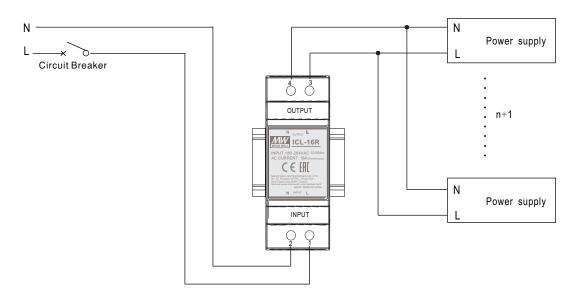
SPECIFICATION						
MODEL		ICL-16R		ICL-16L	ICL-16L	
AC INPUT VOLTAG	E	180 ~ 264VAC				
AC LINE FREQUEN	ICY	47 ~ 63Hz				
INRUSH CURRENT	LIMITING	23A				
AC CONTINUOUS	RATED CURRENT	16A continuous				
AC INPUT POWER		3680VA (16A x 230VAC)				
AC INPUT CONSU	MPTION	<1.5W at 264VAC,50Hz input				
INTERNAL RELAY L (TON POWER ON)	IMITING TIME	300±50ms				
	LIMITING CYCLES	PSU Set up time<250ms PSU Set up time 250 ~ 350ms		50 ~ 350ms	PSU Set up time >350ms	
INTERNAL RELAY		1 cycle / 5 min	1 cycle / 1 min		5 cycle / 1 min (>1500ms per cycle)	
	RELEASE TIME	500±50ms				
INTERNAL PROTE	CTION	Thermal fuse protects overload	I and fire			
ALLOWED CAPACI	TIVE LOAD	2500 μ F max.				
WORKING TEMP.		-30 ~ +70°C				
WORKING HUMIDI	TY	20 ~ 90% RH non-condensing				
STORAGE TEMP.		-40 ~ +85°C				
TEMP. COEFFICIENT		$\pm 0.03\%$ °C (0 ~ 50°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 DEGR	EE	2				
SAFETY STANDAR	DS	IEC62368-1(LVD)				
		Parameter	Standard		Test Level / Note	
	EMC EMISSION	Conducted	EN55032		Class B	
		Radiated	EN55032		Class B	
		Harmonic Current	EN61000-3-2		Class A	
		Voltage Flicker EN61000-3-3				
SAFETY &		EN55024, EN55035,EN61000-6-2				
EMC		Parameter	Standard		Test Level /Note	
(Note.3)		ESD	EN61000-4-2		Level 3, 8KV air; Level 2, 4KV contact, criteria A	
	EMC IMMUNITY	Radiated Susceptibility	EN61000-4-3		Level 3, criteria A	
		EFT/Burest	EN61000-4-4		Level 3, criteria A	
		Surge	EN61000-4-5		Level 4,2KV/L-N, criteria A	
		Conducted	EN61000-4-6		Level 3, criteria A	
		Magnetic Field	EN61000-4-8		Level 4, criteria A	
		Voltage Dips and interruptions	EN61000-4-11		>95% dip 0. 5 periods, 30% dip 25 periods, >95% interruptions 250 periods	
MTBF		2433.76K hrs min. MIL-HDB	K-217F (25°C)	2508.62K hrs r	nin. MIL-HDBK-217F (25°C)	
DIMENSION		35*90*54.5mm (L*W*H)		175*42*24mm (L*W*H)		
PACKING		0.116Kg; 96pcs/12.2Kg/1.04CUFT		0.132Kg; 98pcs	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) Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 				

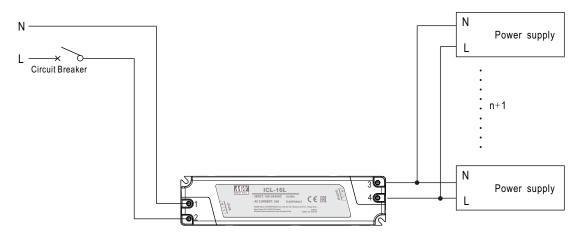


■ BLOCK DIAGRAM



■ APPLICATION DIAGRAM



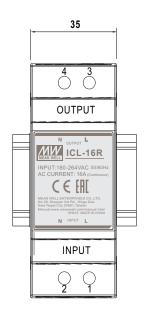


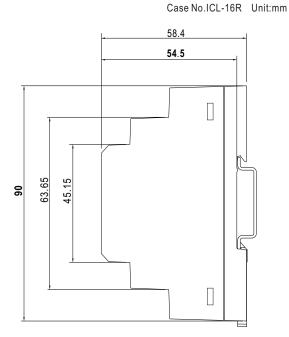
* How many power supplys can be connected behind ICL-16R/ICL-16L? Please refer to: http://www.meanwell.com.



■ MECHANICAL SPECIFICATION

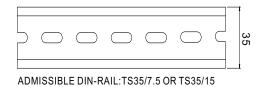
○ ICL-16R(DIN Rail type)





Terminal Pin No. Assignment

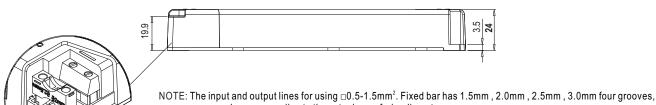
Pin No.	Assignment	Pin No.	Assignment
1	AC/L Input	3	AC/L Output
2	AC/N Input	4	AC/N Output



○ ICL-16L(Linear type)

Case No.PLM-40 Unit:mm





NOTE: The input and output lines for using \(\subseteq 0.5-1.5mm^{\chi}. \) 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





Declaration of Conformity

For the following equipmer	nt:		
Product Name: Switching F	ower Supply		
Model Designation: ICL-16	R, ICL-16L		
is herewith confirmed to c were applied:	omply with the requirements so	et out in the Council [Directive, the following standards
RoHS Directive (2011	/65/EU) (2015/863/EU)		
Low Voltage Directive ((2014/35/EU):		
EN62368-1:2014+A11:201	7	LVD Report No: 1	922004S.50A
Electromagnetic Comp EMI (Electro-Magnetic Int Conducted emission / Rad		/EU) :	Class B
Harmonic current	EN61000-3-2:2014		
Voltage flicker	EN61000-3-3:2013		
EMS (Electro-Magnetic S	usceptibility)		
EN 55035: 2017 EN6100	0-6-2:2005 EN61000-6-4:200	7+A1:2011	
ESD air	EN61000-4-2:2009	Level 3	8KV
ESD contact	EN61000-4-2:2009	Level 2	4KV
RF field susceptibility	EN61000-4-3:2006+A1:2008-	+A2:2010 Level 3	10V/m
EFT bursts	EN61000-4-4:2012	Level 3	2KV/5KHz
Surge susceptibility	EN61000-4-5:2014	Level 4	2KV/Line-Line
Conducted susceptibility	EN61000-4-6:2014	Level 3	10V
Magnetic field immunity	EN61000-4-8:2010	Level 4	30A/m
enclosure. Since EMC perform EMC Directive on the complete The EMC tests mentioned abore For guidance on how to perfo	with load will be installed into final nance will be affected by the complet e installation again. ove are performed using a well defir	equipment which consiste installation, the final equed metal plate to simulate o "EMI testing of compo	ts of an electronically shielded metal uipment manufacturers must re-qualify e said metal enclosure. nent power supplies".(as available on
This Declaration is effective from	om serial number EB9xxxxxxx		
Person responsible for mai	rking this declaration:		
MEAN WELL Enterprises ((Manufacturer Name)	Co., Ltd.		
No.28, Wuquan 3rd Rd., W (Manufacturer Address)	Jugu Dist., New Taipei City 2489		Op.
Johnny Huang/Manager, Certific (Name / Position)	cation Center : (Signature)	Alex Tsai/Director, Market (Name / Position)	eting Department : (Signature)
Taiwan (Place)	Jul. 22nd, 2019		
(1 IdUU)	(Date)		