

MEAN WELL ICL-16R Inrush Current Limiter Installation Guide

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MEAN WELL ICL-16R Inrush Current Limiter



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

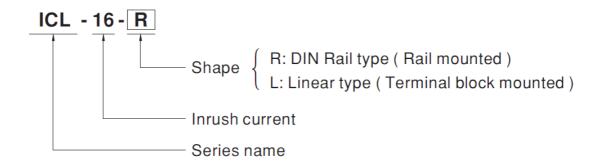
GTIN CODE

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



SPECIFICATION

MODEL		ICL-16R		ICL-16L			
AC INPUT VOLTAGE		180 ~ 264VAC					
AC LINE FREQUEN		47 ~ 63Hz					
INRUSH CURRENT LIMITING		23A					
AC CONTINUOUS R ATED CURRENT		16A continuous					
AC INPUT POWER		3680VA (16A x 230VAC)					
AC INPUT CONSUM PTION		<1.5W at 264VAC,50Hz input					
INTERNAL RELAY LIMITING TIME (TO N POWER ON)		300±50ms					
	LIMITIN G CYCL ES	PSU Set up time <250ms	PSU Set up time 250 ~ 350ms		PSU Set up time >3 50ms		
INTERN AL RELAY		1 cycle / 5 min	1 cycle / 1 min		5 cycle / 1 min (>15 00ms per cycle)		
	RELEAS E TIME	500±50ms					
INTERNAL PROTECTION		Thermal fuse protects overload and fire					
ALLOWED CAPACI TIVE LOAD		2500μF max.					
WORKING TEMP.		-30 ~ +70°C					
WORKING HUMIDIT		20 ~ 90% RH non-condensing					
STORAGE TEMP.		-40 ~ +85°C					
TEMP. COEFFICIEN		±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 ALTIT UDE (NO TE 2)		5000 meters				
OVER VOLTAGE CA TEGORY		III; According to IEC62368-1; altitude up to 5000 meters				
POLLUTION DEGR EE		2				
SAFETY STANDAR DS		LVD BS EN/EN62368-1 approved				
		Parameter	Standard		Test Level / Note	
		Conducted	BS EN/EN55032		Class B	
		Radiated	BS EN/EN55032		Class B	
	EMC EM	Harmonic Curre nt	BS EN/EN61000-3-2		Class A	
		Voltage Flicker	BS EN/EN61000-3-3			
		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 c ontact, criteria A	
			BS EN/EN61000-4-3			
		Radiated Susce ptibility	BS EN/EN61000-	-4-3	Level 3, criteria A	
SAFETY			BS EN/EN61000-		Level 3, criteria A Level 3, criteria A	
& EMC		ptibility		-4-4		
1		ptibility EFT/Burest	BS EN/EN61000	-4-4 -4-5	Level 3, criteria A	
& EMC	EMC IM	ptibility EFT/Burest Surge	BS EN/EN61000-	-4-4 -4-5 -4-6	Level 3, criteria A Level 4,2KV/L-N, criteria A	
& EMC	EMC IM MUNITY	ptibility EFT/Burest Surge Conducted	BS EN/EN61000- BS EN/EN61000- BS EN/EN61000-	-4-4 -4-5 -4-6 -4-8	Level 3, criteria A Level 4,2KV/L-N, criteria A Level 3, criteria A	
& EMC	_	ptibility EFT/Burest Surge Conducted Magnetic Field Voltage Dips and interruptions	BS EN/EN61000- BS EN/EN61000- BS EN/EN61000- BS EN/EN61000- Telcordia SR-332 3K hrs min.	-4-4 -4-5 -4-6 -4-8	Level 3, criteria A Level 4,2KV/L-N, criteria A Level 3, criteria A Level 4, criteria A 95% dip 0.5 periods, 30% dip 2 5 periods, 95% interruptions 250 periods Telcordia SR-332 (Bellcore);	
& EMC (Note.3)	MUNITY	ptibility EFT/Burest Surge Conducted Magnetic Field Voltage Dips and interruptions 7229.0K hrs min. (Bellcore); 2157.	BS EN/EN61000 BS EN/EN61000 BS EN/EN61000 BS EN/EN61000 BS EN/EN61000 Telcordia SR-332 3K hrs min.	-4-4 -4-5 -4-6 -4-8 -4-11 7217.9K hrs min. 2113.8K hrs min.	Level 3, criteria A Level 4,2KV/L-N, criteria A Level 3, criteria A Level 4, criteria A 95% dip 0.5 periods, 30% dip 2 5 periods, 95% interruptions 250 periods Telcordia SR-332 (Bellcore); MIL-HDBK	

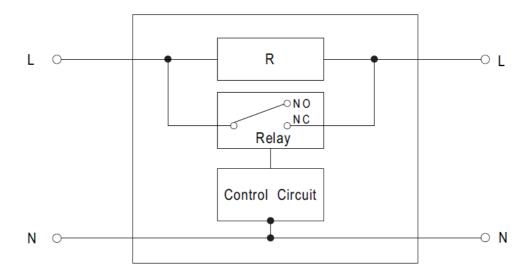
- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load a nd 25°C of ambient temperature.
- 2. The ambient temperature derating of 3.5 °C/1000m with fanless models and of 5 °C/1 000m with fan models for operating altitude higher than 2000m(6500ft).
- 3. The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives. For guidanc e on how to perform these EMC tests, please refer to "EMI testing of component power supplies."

NOTE

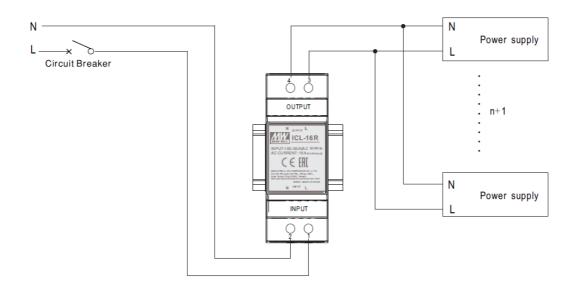
(as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)

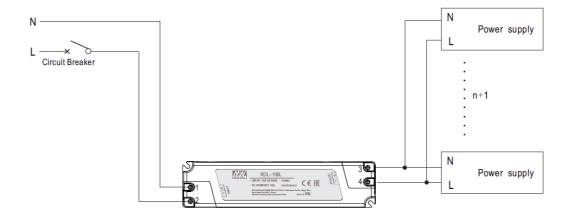
* Product Liability Disclaimer For detailed information, please refer to https://www.me.anwell.com/serviceDisclaimer.aspx

BLOCK DIAGRAM



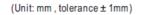
APPLICATION DIAGRAM

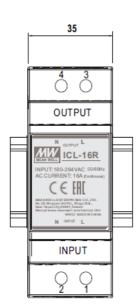




How many power supplys can be connected behind ICL-16R/ICL-16L. Please refer to: http://www.meanwell.com.

MECHANICAL SPECIFICATION

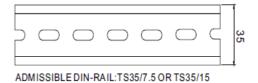




58.4 54.5 54.5

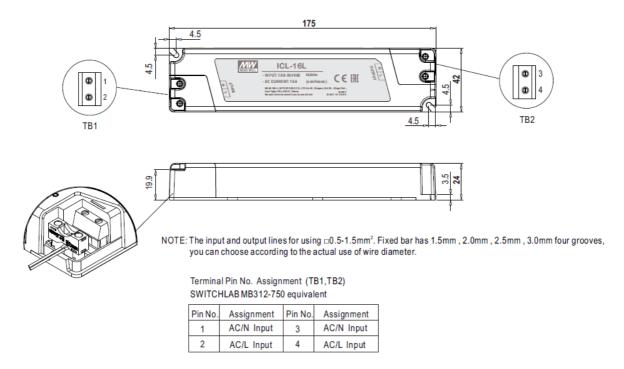
Terminal Pin No. Assignment

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



File Name: ICL-16-SPEC 2024-10-30.

Documents / Resources



MEAN WELL ICL-16R Inrush Current Limiter [pdf] Installation Guide

ICL-16R, ICL-16L, ICL-16R Inrush Current Limiter, ICL-16R, Inrush Current Limiter, Current Limiter, Limiter

References

- © Itd.no
- User Manual

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