

Low Voltage Capacitive Coupling Unit

P-1240-014, P-1240-021, P-1240-022, P-1240-032



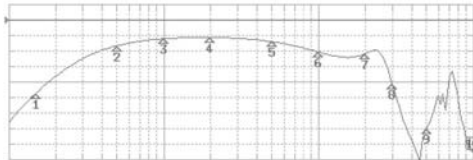
Features

- Capacitive coupling unit for direct injection of the PLC signal into the powerline.
- RoHS compliant.

Electrical parameters

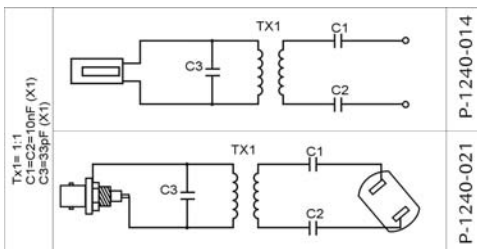
Rated voltage	400 V
Rated frequency	50/60 Hz
Rated current (at rated temp.)	100 mA @ 40°C
Test voltage	2000 Vdc
Climatic category (DIN 40040)	HPF
TX1	1:1
C1	10 nF
C2	10 nF
C3	33 pF
STP adapter cable length	1 m
Powerline cable length	80 mm
Powerline cable section	4 mm ²

Insertion losses



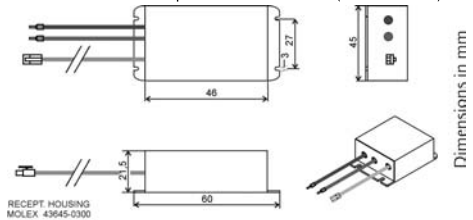
1	150 000 Hz	-7.433 dB	6	10 000 000 Hz	-2.126 dB
2	500 000 Hz	-1.306 dB	7	20 000 000 Hz	-2.308 dB
3	1000 000 Hz	-0.410 dB	8	30 000 000 Hz	-6.279 dB
4	2000 000 Hz	-0.247 dB	9	50 000 000 Hz	-12.060 dB
5	5000 000 Hz	-0.792 dB	10	100 000 000 Hz	-15.061 dB

Electrical diagram

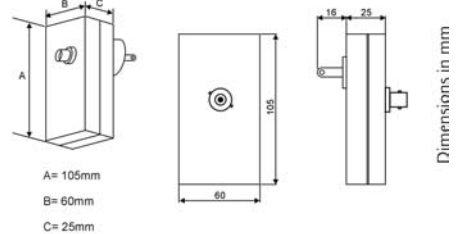


Dimensions

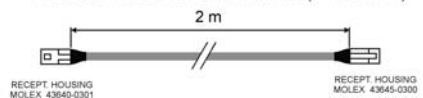
BNC connector option also available (P-1240-022)



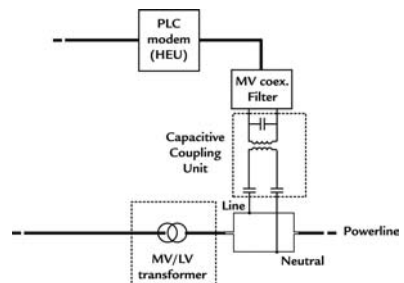
European connector option also available (P-1240-032)



Extension cord SC-01 also available (P-1240-015)



Installation



Low Voltage Inductive Coupling Unit

LICU 15A, 30A, 63A, 150A



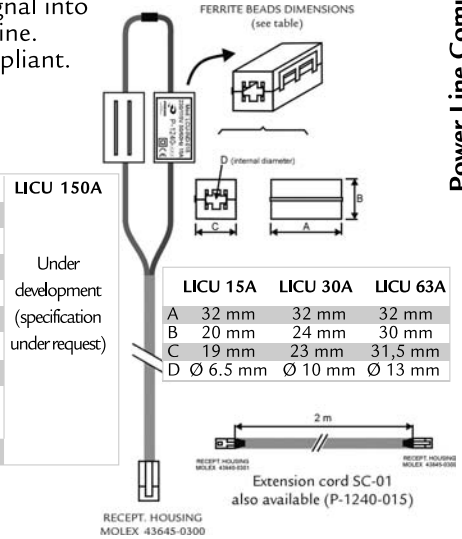
Electrical parameters

	LICU 15A	LICU 30A	LICU 63A
BNC Connector	(P-1240-023)	(P-1240-024)	(P-1240-027)
Molex Connector	(P-1240-012)	(P-1240-013)	(P-1240-020)
Rated voltage	230 V	230 V	230 V
Rated frequency	50-60 Hz	50-60 Hz	50-60 Hz
Rated current (at rated temp.)	15 A	30A	63A
Material	Ferrite	Ferrite	Ferrite
Climatic category (DIN 40040)	HPF	HPF	HPF
Cable length	1.5 m	1.5 m	1.5 m

Features

- Inductive coupling unit for injection of the PLC signal into the powerline.
- RoHS compliant.

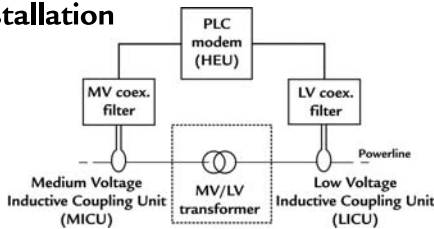
Dimensions



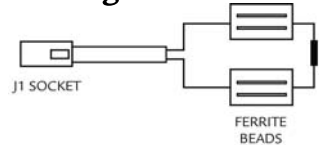
LICU 150A

Under development (specification under request)

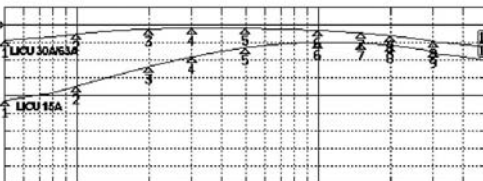
Installation



Electrical diagram



Insertion losses



Freq. (MHz)	Insertion losses (dB)	
	LICU 15A	LICU 30A/63A
1 0.5	21.271	4.369
2 1	17.338	2.563
3 2	11.808	1.162
4 3	9.048	0.935
5 5	6.437	0.988
6 10	4.92	1.538
7 15	5.153	2.275
8 20	5.792	3.059
9 30	7.646	4.652
10 50	10.041	6.136

Impedance response



Freq. (MHz)	Impedance (W)	
	LICU 15A	LICU 30A/63A
1 0.5	0.673	0.797
2 1	3.062	3.764
3 2	6.114	7.542
4 3	18.254	22.780
5 5	30.476	38.118
6 10	58.444	72.164
7 15	82.186	100.337
8 20	101.769	122.630
9 30	130.431	152.131
10 50	153.229	170.324