



LC L35-47A-400

LC L35-47A-400, Filter

Code: R73111. DESCATALOGADO

- > Load current (A): 47
- > Frequency (Hz): 50
- > Q (kvar): 9,14
- > cabinet: FRF

Description

LCL filters have been specially designed to eliminate the harmonics from the current absorbed by 6-pulse power converters, such as frequency variators for motors, UPS, etc. These are essentially passive filters based on a series-parallel combination of inductances and capacitors, adapted to filter the input of power converters.

Application

- Reduction of the current wave's distortion towards the network and the rest of the installation.
- Compliance with the **IEC 61000-3-4, IEC 61000-3-12, IEC 61800-3 and IEEE-519.**
- Energy savings with the reduction of the root mean square current (RMS), thus reducing the kV·A demand.
- Increase of the working life of units above this location with the corresponding reduction of thermal losses generated.
- Limits current transients, preventing damages caused to the converter and overvoltage trips that affect production processes.



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Specifications

AC power supply

| | |
|-----------------|---|
| Frequency | 50 Hz |
| Nominal voltage | 400 Vca / 480 Vca F-F (otras tensiones, bajo demanda) |

Mechanical characteristics

| | |
|----------------------------------|--|
| Size (mm) width x height x depth | 650 x 1060 x 420 (mm) |
| Envelope | Treated and painted steel. Frame RAL 1013 / Doors RAL 3005 |
| Fastening | On the ground |

Environmental characteristics

| | |
|--|---------|
| Protection class | IP 20 |
| Relative humidity (without condensation) | 80% |
| Installation, location, position. | Inside |
| Operating temperature | + 35 °C |

Electrical characteristics

| | |
|------------------------------|------------|
| Nominal current voltage drop | < 2 % |
| LC load current (RMS) | 47 A |
| Filtered current If (RMS) | 18,8 A |
| Residual current THD | Approx. 8% |

Current measurement circuit

| | |
|--------------------|--|
| Allowable overload | 1,5 Ic (≤ 1 min.) + Ic (≤ 5 min.) (at maximum operating temperature) |
|--------------------|--|

Standards

| | |
|-----------|---|
| Standards | UNE-EN 60439 , UNE-EN60831 , IEC 61000-6-3 , IEC 61000-6-4, Class A |
|-----------|---|

LCL
Harmonic filters for power converters

| CODE | TYPE | Load current (A) | Q (kvar) |
|---------------|-----------------|------------------|----------|
| 400 V | | | |
| R73107. | LC L35-16A-400 | 16 | 3,27 |
| 460 - 480 V | | | |
| R732140070000 | LC L36-76A-480 | 76 | 22,77 |
| R732150070000 | LC L36-90A-480 | 90 | 26,56 |
| R732160070000 | LC L36-110A-480 | 110 | 30,36 |
| R732170070000 | LC L36-150A-480 | 150 | 45,53 |



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|---------------|-----------------|------------------|----------|
| R732180070000 | LC L36-180A-480 | 180 | 53,12 |
| R732190070000 | LC L36-220A-480 | 220 | 60,71 |
| R732200070000 | LC L36-260A-480 | 260 | 68,3 |
| R732210070000 | LC L36-320A-480 | 320 | 91,07 |

Please contact us for other current, frequency and/or voltage values Optional: Overcompensation kit



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Connections

