



## LC L36-90A-480

LC L36-90A-480, Filter

Code: R732150070000

- > Load current (A): 90
- > Frequency (Hz): 60
- > Q (kvar): 26,56
- > cabinet: FR4

### 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       | 60 Hz   |
| Nominal voltage | 400 Vca / 480 Vca F-F (otras tensiones, bajo demanda) |

#### Mechanical characteristics

|                                  |  |
|----------------------------------|--|
| Size (mm) width x height x depth | 800 x 1900 x 650 (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%     |
| Operating temperature                    | + 35 °C |

#### Electrical characteristics

|                              |            |
|------------------------------|------------|
| Nominal current voltage drop | < 2 %      |
| LC load current (RMS)        | 90 A       |
| Filtered current If (RMS)    | 36 A       |
| Residual current THD         | Approx. 8% |

#### Current measurement circuit

|                    |  |
|--------------------|--|
| Allowable overload | 1,5 I <sub>c</sub> (≤ 1 min.) + I <sub>c</sub> (≤ 5 min.) (at maximum operating temperature) |
|--------------------|--|

#### Standards

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



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### LCL

Harmonic filters for power converters

| CODE          | TYPE            | Load current (A) | Q (kvar) |
|---------------|-----------------|------------------|----------|
| R73105.       | LC L35-9A-400   | 9                | 1,76     |
| R73106.       | LC L35-12A-400  | 12               | 2,51     |
| R73107.       | LC L35-16A-400  | 16               | 3,27     |
| R73108.       | LC L35-22A-400  | 22               | 4,42     |
| R73109.       | LC L35-32A-400  | 32               | 6,63     |
| R73110.       | LC L35-40A400   | 40               | 8,29     |
| R73111.       | LC L35-47A-400  | 47               | 9,14     |
| R73112.       | LC L35-54A-400  | 54               | 10,8     |
| R73113.       | LC L35-64A-400  | 64               | 13,26    |
| R73114.       | LC L35-76A-400  | 76               | 14,92    |
| R73115.       | LC L35-90A-400  | 90               | 18,24    |
| R73116.       | LC L35-110A-400 | 110              | 23,21    |
| R73117.       | LC L35-150A-400 | 150              | 29,84    |
| R73118.       | LC L35-180A-400 | 180              | 36,48    |
| R73119.       | LC L35-220A-400 | 220              | 46,42    |
| R73120.       | LC L35-260A-400 | 260              | 53,06    |
| R73121.       | LC L35-320A-400 | 320              | 66,32    |
| R73122.       | LC L35-400A-400 | 400              | 79,58    |
| R732050070000 | LC L36-9A-480   | 9                | 2,73     |
| R732070070000 | LC L36-16A-480  | 16               | 4,55     |
| R732080070000 | LC L36-22A-480  | 22               | 6,21     |
| R732090070000 | LC L36-32A-480  | 32               | 7,59     |
| R732100070000 | LC L36-40A-480  | 40               | 11,38    |
| R732110070000 | LC L36-47A-480  | 47               | 15,18    |
| R732120070000 | LC L36-54A-480  | 54               | 15,18    |
| R732130070000 | LC L36-64A-480  | 64               | 18,97    |
| 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    |
| 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    |
| R732220070000 | LC L36-400A-480 | 400              | 121,42   |

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



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## Connections

