Enerdoor parallel filters provide protection from variable frequency drives, SCRs, controllers, and other high commutation electrical equipment. This line provides high attenuation in the frequency range of 10 kHz to 5 MHz offering a solution for applications with low to medium frequency concerns. When used in conjunction with other Enerdoor filters, this combination ensures EMI/RFI protection for equipment in any environment.

This series offers a unique solution available with nominal voltage up to 750 Vac and any current level due to the parallel connection to the line. Offered in 3 phase and 3 phase plus neutral, this line carries CE and UL approvals.

The FIN730 and FIN740 filters reduce EMI interference in the 30 kHz to 10 MHz frequency range. The FIN230 filter has a resonance frequency of 150 kHz and provides a significant interference reduction in the frequency range of 50 kHz to 5 MHz. This series features panel and DIN rail mounting for fast and easy installation.

Parallel filter applications include:
- CNC machinery
- Recharging stations
- Multiple drive applications
- Renewable energy
- SCR applications
EMI/RFI Parallel filter with excellent attenuation in low frequency range

FIN130SP.001.M

FIN230SP.001.M

FIN735.001.M

FEATURES
- Independent from nominal current
- Low leakage current
- DIN rail or panel mounting
- Excellent attenuation in low frequency range

MARKETS
- CNC machinery
- Recharging stations
- Multiple drive applications
- Renewable energy

FIN130SP/FIN230SP/FIN735
Three Phase Parallel Filters

APPROVALS:
UL1283
CSA C22.2
RoHS
CE

FIN735
Three Phase Parallel Filters

DEPENDENT
Independent from nominal current
Low leakage current
DIN rail or panel mounting
Excellent attenuation in low frequency range

MARKETS
CNC machinery
Recharging stations
Multiple drive applications
Renewable energy

FIN130SP.001.M
FIN230SP.001.M
FIN735.001.M

ATTENUATION INDICATOR

High
Very High
Excellent

ELECTRIC DIAGRAM

TECHNICAL SPECIFICATIONS

Nominal voltage
Frequency
Rated current
Potential test voltage phase to phase
Potential test voltage phase to ground
Leakage current normal conditions
Leakage current worst conditions
IP Protection
Climatic class
MTBF at 40°C

See Electrical Characteristics
50 – 60 Hz
Unlimited
2400 Vdc (2 sec.)
3200 Vdc (2 sec.)
< 25 mA *
< 70 mA
IP20
-40 / +85°C
250,000 Hrs

* Voltage 230 Vac phase to ground 50H / 40°C
ELECTRICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Model</th>
<th>Nominal Voltage AC (Vac)</th>
<th>Nominal Voltage DC (Vdc)</th>
<th>Power Loss (W)</th>
<th>Solid Cable (mm²)</th>
<th>Stranded Cable (mm²)</th>
<th>Terminal Block Torque (Nm)</th>
<th>Torque (Nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN130SP.001.M</td>
<td>600</td>
<td>1000</td>
<td>10</td>
<td>1 - 4</td>
<td>1 - 4</td>
<td>1.8</td>
<td>1.8</td>
</tr>
<tr>
<td>FIN230SP.001.M</td>
<td>600</td>
<td>1000</td>
<td>10</td>
<td>1 - 4</td>
<td>1 - 4</td>
<td>1.8</td>
<td>1.8</td>
</tr>
<tr>
<td>FIN735.001.M</td>
<td>650</td>
<td>1100</td>
<td>10</td>
<td>1 - 4</td>
<td>1 - 4</td>
<td>1.8</td>
<td>1.8</td>
</tr>
</tbody>
</table>

CONNECTIONS

TYPICAL ATTENUATION

MECHANICAL DIMENSIONS mm

<table>
<thead>
<tr>
<th>Model</th>
<th>L</th>
<th>d</th>
<th>E</th>
<th>I</th>
<th>P</th>
<th>A</th>
<th>C</th>
<th>T</th>
<th>G</th>
<th>F</th>
<th>H</th>
<th>Weight Kg</th>
<th>Case</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN130SP.001.M</td>
<td>59</td>
<td>4.5</td>
<td>10</td>
<td>35</td>
<td>130</td>
<td>112</td>
<td>166</td>
<td>4</td>
<td>37.5</td>
<td>7</td>
<td>146</td>
<td>1.15</td>
<td>1</td>
</tr>
<tr>
<td>FIN230SP.001.M</td>
<td>59</td>
<td>4.5</td>
<td>10</td>
<td>35</td>
<td>130</td>
<td>112</td>
<td>166</td>
<td>4</td>
<td>37.5</td>
<td>7</td>
<td>146</td>
<td>1.15</td>
<td>1</td>
</tr>
<tr>
<td>FIN735.001.M</td>
<td>59</td>
<td>4.5</td>
<td>10</td>
<td>35</td>
<td>130</td>
<td>112</td>
<td>166</td>
<td>4</td>
<td>37.5</td>
<td>7</td>
<td>146</td>
<td>1.15</td>
<td>1</td>
</tr>
</tbody>
</table>

CASE 1

ASSEMBLY CONNECTION “M”
EMI/RFI Parallel filter with excellent attenuation in low frequency range

FEATURES
- Independent from nominal current
- Low leakage current
- DIN rail or panel mounting
- Excellent attenuation in low frequency range

MARKETS
- CNC machinery
- Recharging stations
- Multiple drive applications
- Renewable energy

FIN730.001.M (C - LCP)

BENEFITS
- 5 Year warranty
- High differential and common mode attenuation
- Compact design
- Easy installation

ORDERING CODE
FIN 730.001. M
Model Nominal voltage
M = 750Vac
MC = 600Vac
MLCP = 480Vac

ATTENUATION INDICATOR

<table>
<thead>
<tr>
<th>High</th>
<th>Very High</th>
<th>Excellent</th>
</tr>
</thead>
</table>

ELECTRIC DIAGRAM

TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal voltage</td>
<td>See Electrical Characteristics</td>
</tr>
<tr>
<td>Frequency</td>
<td>50 – 60 Hz</td>
</tr>
<tr>
<td>Rated current</td>
<td>Unlimited</td>
</tr>
<tr>
<td>Potential test voltage phase to phase</td>
<td>2400 Vdc (2 sec.)</td>
</tr>
<tr>
<td>Potential test voltage phase to ground</td>
<td>3200 Vdc (2 sec.)</td>
</tr>
<tr>
<td>Leakage current normal conditions</td>
<td>&lt; 25 mA *</td>
</tr>
<tr>
<td>Leakage current worst conditions</td>
<td>&lt; 70 mA</td>
</tr>
<tr>
<td>IP Protection</td>
<td>IP20</td>
</tr>
<tr>
<td>Climatic class</td>
<td>-40 / +85°C</td>
</tr>
<tr>
<td>MTBF at 40°C</td>
<td>250,000 Hrs</td>
</tr>
</tbody>
</table>

* Voltage 230 Vac phase to ground 50 Hz / 40°C
EMI/RFI Parallel filter with excellent attenuation in low frequency range

**FEATURES**
- Independent from nominal current
- Low leakage current
- DIN rail or panel mounting
- Excellent attenuation in low frequency range

**MARKETS**
- CNC machinery
- Recharging stations
- Multiple drive applications
- Renewable energy

**BENEFITS**
- 5 Year warranty
- High differential and common mode attenuation
- Compact design
- 3-phase plus neutral application

**ORDERING CODE**
FIN740_068_M
Model Connection
M = Terminal block

---

**ATTENUATION INDICATOR**

<table>
<thead>
<tr>
<th>High</th>
<th>Very High</th>
<th>Excellent</th>
</tr>
</thead>
</table>

**ELECTRIC DIAGRAM**

---

**TECHNICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal voltage</td>
<td>0 / 600 Vac</td>
</tr>
<tr>
<td>Frequency</td>
<td>50 – 60 Hz</td>
</tr>
<tr>
<td>Rated current</td>
<td>Unlimited</td>
</tr>
<tr>
<td>Potential test voltage phase to phase</td>
<td>2200 Vdc (2 sec.)</td>
</tr>
<tr>
<td>Potential test voltage phase to ground</td>
<td>2900 Vdc (2 sec.)</td>
</tr>
<tr>
<td>Leakage current normal conditions</td>
<td>&lt;20 mA*</td>
</tr>
<tr>
<td>Leakage current worst conditions</td>
<td>&lt;60 mA</td>
</tr>
<tr>
<td>IP Protection</td>
<td>IP20</td>
</tr>
<tr>
<td>Climatic class</td>
<td>-40 / +85°C</td>
</tr>
<tr>
<td>MTBF at 40°C</td>
<td>250,000 Hrs</td>
</tr>
</tbody>
</table>

* Voltage 230 Vac phase to ground 50 Hz / 40°C
FIN740 Three Phase + Neutral Parallel Filter

**ELECTRICAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Model</th>
<th>Nominal Voltage AC (Vac)</th>
<th>Nominal Voltage DC (Vdc)</th>
<th>Power Loss (W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN740.068.M</td>
<td>480</td>
<td>800</td>
<td>10</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LINE</th>
<th>PE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid Cable (mm²)</td>
<td>Stranded Cable (mm²)</td>
</tr>
<tr>
<td>1 - 4</td>
<td>1 - 4</td>
</tr>
</tbody>
</table>

**MECHANICAL DIMENSIONS mm**

<table>
<thead>
<tr>
<th>Model</th>
<th>L</th>
<th>d</th>
<th>E</th>
<th>I</th>
<th>P</th>
<th>A</th>
<th>C</th>
<th>T</th>
<th>G</th>
<th>F</th>
<th>H</th>
<th>Weight Kg</th>
<th>Case</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN740.068.M</td>
<td>59</td>
<td>4.5</td>
<td>10</td>
<td>35</td>
<td>130</td>
<td>112</td>
<td>166</td>
<td>4</td>
<td>37.5</td>
<td>7</td>
<td>146</td>
<td>1.15</td>
<td>1</td>
</tr>
</tbody>
</table>

**CASE 1**

**ASSEMBLY CONNECTION "M"**

---

Three Phase + Neutral Parallel Filter Engineered by FINMOTOR