Uninterruptible Motor drive type UMD C100
Rated Power 2,2 - 30kW @ 3x400V$_{AC}$

The UMD C100 is a complete system for uninterruptible motor drive for three phase AC-motors. For applications where high availability is required, e.g. oil pumps, fans, sluice gates etc.

**Mains and battery supplied**
Secures operation of AC-motors in critical processes from both the mains and battery supply.

**Uninterruptible operation**
Transition without interruption between mains and battery supply at full power. Quicker start up compared to a DC motor.

**Energy saving**
Based on frequency converters with speed control saves energy and battery capacity.

**Compact and robust**
Designed for easy installation with minimal space requirements in any environment, wall mounted up to 7.5kW and in floor cabinet up to 30kW

**High availability**
UMD C100 with an AC motor increases system availability and reduces maintenance cost compared to additional standby systems with starter and DC motors.

**Operator Friendly**
Simple setting and distinct indication of operation mode with advanced control panel.

www.kraftpowercon.com
Uninterruptable motor drive - C100

General
UMD C100 is intended together with an external DC system to provide uninterruptible motor drive. Typical applications are pumps and fans. UMD C100 is made in two designs depending on the DC systems voltage: 110/125VDC or 220VDC.

Enclosure
Type: Wall or floor cabinet
Cable entrance (wall): from bottom
Cable entrance (floor): from bottom or above
Size: Se table
Color: RAL 7035 light grey
IP-enclosure: IP21
Ventilation: Natural (fans in drive and DC/DC modules)

Environment
Ambient temperature: Operation, 0 to +40 °C
Storage, -10 to +70 °C
Humidity: < 90 % RH, non-condensed
Altitude a.s.l: < 1000 m, ±2000 m by derating

Input DC
Input voltage: 110VDC, -15%
125 VDC, +16%
220VDC, ±15%
Connection: Terminal block
Other: See table 1 & 2

Input AC (Option)
Input voltage: 3x380/480VAC, +10%/-15%
Frequency: 45 – 65 Hz
Power factor: > 0.95 at 3x400 VAC, full load
Connection: Terminal block
Other: See table 1 & 2

Output AC
Type: Frequency converter
Output voltage, nominal: 3x380/480VAC, +10%/-15%
Connection: Terminal block
Other: See table 1 & 2

Disconnect switch
DC switch: In cabinet
AC switch: In cabinet (AC-option)

Standards
Safety: EN 50178:1997
EMC, immunity: EN/EC 61800-3:2004
EMC, Emission: EN/EC 61800-3:2004
Battery installations: EN 50272-2

Operator interface
Control signals:
Start signal
External error
Running
Error
Local control:
Door mounted control panel
Local indication:
Door mounted control panel

Options
AC supply
Thermistor relay
Control of stand still heater
Bus communication
PROFIBUS, CANopen,
DeviceNet,
EtherNet/IP, ModBus/TC

IP-enclosure
Temperature
0-50°C by derating
Commissioning
Extended approval
UL (USA)
CSA (Canada)

<table>
<thead>
<tr>
<th>Output data 3x480VAC</th>
<th>Input data DC</th>
<th>Input data AC (option)</th>
<th>Size</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor power (kW)</td>
<td>Current (A)</td>
<td>Rated current (A)</td>
<td>(1) wall, (2) floor</td>
<td>(kg)</td>
</tr>
<tr>
<td>2.2</td>
<td>16</td>
<td>7,5</td>
<td>1120x400x400 (1)</td>
<td>37</td>
</tr>
<tr>
<td>3</td>
<td>18</td>
<td>8,7</td>
<td>1120x400x400 (1)</td>
<td>37</td>
</tr>
<tr>
<td>5.5</td>
<td>12</td>
<td>8,4</td>
<td>1120x400x400 (1)</td>
<td>44</td>
</tr>
<tr>
<td>7.5</td>
<td>16</td>
<td>114</td>
<td>1120x400x400 (1)</td>
<td>44</td>
</tr>
<tr>
<td>11</td>
<td>24</td>
<td>170</td>
<td>2100x840x600 (2)</td>
<td>117</td>
</tr>
<tr>
<td>15</td>
<td>31</td>
<td>224</td>
<td>2100x840x600 (2)</td>
<td>220</td>
</tr>
<tr>
<td>18,5</td>
<td>40</td>
<td>289</td>
<td>2100x840x600 (2)</td>
<td>235</td>
</tr>
<tr>
<td>22</td>
<td>46</td>
<td>336</td>
<td>2100x840x600 (2)</td>
<td>230</td>
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<tr>
<td>30</td>
<td>54,7</td>
<td>395</td>
<td>2100x1640x600 (2)</td>
<td>250</td>
</tr>
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</table>

Table 1, Rated power and cabinet size for 3x480VAC motor drive.

<table>
<thead>
<tr>
<th>Output data 3x480VAC</th>
<th>Input data DC</th>
<th>Input data AC (option)</th>
<th>Size</th>
<th>Weight</th>
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</thead>
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<td>Motor power (kW)</td>
<td>Current (A)</td>
<td>Rated current (A)</td>
<td>(1) wall, (2) floor</td>
<td>(kg)</td>
</tr>
<tr>
<td>2.2</td>
<td>4.4</td>
<td>14</td>
<td>2100x840x600 (2)</td>
<td>220</td>
</tr>
<tr>
<td>3.7/5</td>
<td>7.5/10</td>
<td>17</td>
<td>2100x840x600 (2)</td>
<td>270</td>
</tr>
<tr>
<td>7/15</td>
<td>11/15</td>
<td>18</td>
<td>2100x840x600 (2)</td>
<td>310</td>
</tr>
<tr>
<td>15/20</td>
<td>25/28</td>
<td>22</td>
<td>2100x840x600 (2)</td>
<td>370</td>
</tr>
<tr>
<td>18,5/25</td>
<td>32/33</td>
<td>30</td>
<td>2100x840x600 (2)</td>
<td>400</td>
</tr>
<tr>
<td>22/30</td>
<td>35/38</td>
<td>33</td>
<td>2100x840x600 (2)</td>
<td>420</td>
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<tr>
<td>30/40</td>
<td>55/64</td>
<td>44</td>
<td>2100x1640x600 (2)</td>
<td>680</td>
</tr>
</tbody>
</table>

*Max @ 93,5VAC ** Max @ 117VAC *** @ 3x480VAC

Table 2, Rated power and cabinet size for 3x480VAC motor drive.

The information in this document may be changed without notice.

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