**ABB motion control products**

**Wall chart MicroFlex e150**

**Part numbers**

- **E 1 5 2 A 0 9 E I O A x x**
  - E15 = MicroFlex e150.
  - 2 = 115 - 230 V AC supply.
  - A = Rated amps: 3 A, 6 A, 9 A.
  - E = Extra digital input / outputs present (connector OPT1).
  - I = Isolating switch.
  - O = Overall screened.
  - A = Assembly revision.
  - XXX = (Optional) Custom variant.

**Recommended power filters**

<table>
<thead>
<tr>
<th>Drive continuous current rating</th>
<th>10 AC power</th>
<th>24 AC power</th>
<th>24 VDC control supply</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 A</td>
<td>F06/10A04</td>
<td>F06/16A03</td>
<td>F06/10A04 (all models)</td>
</tr>
<tr>
<td>6 A</td>
<td>F06/10A04</td>
<td>F06/16A03</td>
<td>F06/10A04 (all models)</td>
</tr>
<tr>
<td>9 A</td>
<td>F06/10A04</td>
<td>F06/16A03</td>
<td>F06/10A04 (all models)</td>
</tr>
</tbody>
</table>

**Recommended system wiring**

- AC Power
- AC line filters
- Motor inputs
- Motor outputs

**Cooling requirements**

- Air flow velocity: Continuous current rating
- 3 A
- 6 A
- 9 A

**SW1 - DIP switches**

<table>
<thead>
<tr>
<th>Switch</th>
<th>Purpose</th>
<th>OFF</th>
<th>ON</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 D1</td>
<td>ID (OUT)</td>
<td>Ethernet</td>
<td>Standard Ethernet</td>
</tr>
<tr>
<td>2 D2</td>
<td>Operating mode</td>
<td>Normal</td>
<td>Firmware loading</td>
</tr>
<tr>
<td>3 D3</td>
<td>2-Wire TIOX</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>2-Wire TIOX</td>
<td>No</td>
<td>Yes</td>
</tr>
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**Recommended system wiring**

- Fan
- Motor contactor
- Motor cable
- Motor control cable

**Drive error codes**

- Invalid mailbox configuration in PREOP. Invalid Sync manager configuration. Invalid output configuration. Invalid input configuration. Invalid watchdog configuration. Invalid DC Sync configuration. Invalid DC latch configuration.

**Drive status**

- Drive disabled, and one or both STO inputs are not grounded.
- Drive disabled.
- Drive enabled.
- Drive enabled, but idle.
- Car move.
- Disable.
- Driver.
- Follow move.
- Normal.
- Incremental move.
- Jog move.
- Offset move.
- Position move.
- Tongue move.
- Stop input active.
- Velocity reference move.
- Splits move.

**USB interface**

- 1 V BUS (+5 V) | 4 GND
- 2 Data - | 3 Data +

**X6 - RS485 interface**

- 2-Wire | 4-Wire
- +24 V STO1 | +24 V STO2
- +24 V DC | +24 V DC

**Status LED**

- Off: INITIALIZATION state (or not powered).
- Blinking: PRE/OPERATIONAL state. SAFE-OPERATIONAL state.
- 3 flashes: Device identification. This state can be set from the master to indicate the device.
- Continuously illuminated: OPERATIONAL state. EtherCAT is operating normally.

**EtherCAT® NET ERR**

- Off: No errors or not powered.
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**EtherCAT® NET RUN**

- Off: Operation stop switch, relay etc.
- Blinking: Firmware loading.

**Cooling requirements**

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**IMPORTANT!**

- A4 and A6 models require additional cooling. Optional fan tray (FA631) is provided.

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