ACS 550 Adjustable Speed AC Drive

The ABB ACS 550 AC drive combines a sophisticated microprocessor with an advanced IGBT power switching technology to deliver V/Hz, Closed Loop Flux Vector, and Sensorless Vector control of AC motors. Its Intuitive Control Panel offers numerous benefits making it the most user-friendly panel in the drives industry. The extensive library of pre-programmed application macros maximizes convenience and minimizes start-up time. This drive can handle the most demanding industrial applications in an efficient, dependable and economic manner.

A new Control Panel, included as standard, provides a real-time clock and full graphic display as well as a dedicated help button.

Features Include:
- Control Panel with
  - Start-Up, Maintenance and Diagnostic Assistants
  - Support for 15 Languages
  - Full Graphic Display
  - "Help" Button
- Numerous internally mountable fieldbus adapters for serial communications
- Patent Pending Swinging Choke for Superior Harmonic Mitigation
- Internal Option Slots for additional I/O
- RS-485 Modbus Included as Standard
- Extensive Library of Pre-Programmed Application Macros
- Integral EMC Filter for 1st Environment, Restricted Distribution (30 m motor cable)
- UL, cUL and CE Approved
- Integral Braking Chopper up to 15 HP (480 VAC)

Easily Integrated:
- Sinking or Sourcing Input Device Logic
- Galvanically Isolated Digital I/O
ACS 550 Technical Data

Input Connection
- Voltage: 3-Phase
  - 200 to 480 VAC
  - +/- 10% permitted tolerance
- Frequency: 48 ... 63 Hz
  - +/- 2 Hz

Output Connection
- Voltage: 0 to max
- Frequency: 0 to 500 Hz

Environmental Limits
- Ambient Operating Temperature: 0° to 40°C

Enclosure
- Type: NEMA 1, NEMA 12

Standard Control Connection
- 2 Programmable Analog Inputs (voltage or current)
- 6 Programmable Digital Inputs
- 2 Programmable Analog Inputs
- 3 Programmable Relay Outputs

Options
- External Braking Units (R3 - R8)
- DriveWindow Light Programming and Diagnostic Software
- Fieldbus Adapter Modules: DeviceNet, Profinet, ControlNet, CANopen

Protection
- Overcurrent
- Ground Fault
- Overtemperature
- Auxiliary Voltage Short Circuit Protection
- Electronic Motor Overload (UL508C - I 2t)
- Overvoltage
- Undervoltage
- Microprocessor Fault
- Motor Stall
- Underload

<table>
<thead>
<tr>
<th>Frame</th>
<th>NEMA 1 Enclosure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>R1</td>
</tr>
<tr>
<td>mm</td>
<td>mm</td>
</tr>
<tr>
<td>W</td>
<td>125</td>
</tr>
<tr>
<td></td>
<td>4.9</td>
</tr>
<tr>
<td>H</td>
<td>330</td>
</tr>
<tr>
<td></td>
<td>13.0</td>
</tr>
<tr>
<td>H2</td>
<td>315</td>
</tr>
<tr>
<td></td>
<td>12.4</td>
</tr>
<tr>
<td>H3</td>
<td>369</td>
</tr>
<tr>
<td></td>
<td>14.5</td>
</tr>
<tr>
<td>D</td>
<td>212</td>
</tr>
<tr>
<td></td>
<td>8.3</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>6.17 kg</td>
</tr>
<tr>
<td>230V HP</td>
<td>1 - 5</td>
</tr>
<tr>
<td>480V HP</td>
<td>1.5 - 7.5</td>
</tr>
</tbody>
</table>

N/A = Information not available at time of printing
Drawing is not for engineering purposes.