**Product data sheet**

**Characteristics**

**ATS48C66Y**
soft starter for asynchronous motor - ATS48 - 590 A - 208..690 V - 160..630 KW

Product availability: Stock - Normally stocked in distribution facility

Price**: **7,440.00 USD

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### Main

<table>
<thead>
<tr>
<th>Range of product</th>
<th>Altistart 48</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product or component type</td>
<td>Soft starter</td>
</tr>
<tr>
<td>Product destination</td>
<td>Asynchronous motors</td>
</tr>
<tr>
<td>Product specific application</td>
<td>Heavy duty industry and pumps</td>
</tr>
<tr>
<td>Device short name</td>
<td>ATS48</td>
</tr>
<tr>
<td>Power supply voltage</td>
<td>208...690 V (-15...10 %)</td>
</tr>
</tbody>
</table>

**Motor power kW**

- 160 kW at 230 V for severe applications
- 315 kW at 400 V for severe applications
- 355 kW at 400 V for standard applications
- 355 kW at 440 V for severe applications
- 400 kW at 440 V for standard applications
- 400 kW at 500 V for severe applications
- 400 kW at 525 V for severe applications
- 560 kW at 660 V for severe applications
- 560 kW at 690 V for severe applications
- 630 kW at 660 V for standard applications
- 630 kW at 690 V for standard applications

**Motor power hp**

- 200 hp at 208 V for standard applications
- 200 hp at 230 V for severe applications
- 250 hp at 230 V for standard applications
- 400 hp at 460 V for severe applications
- 500 hp at 460 V for standard applications
- 500 hp at 575 V for severe applications
- 600 hp at 575 V for standard applications
- 600 hp at 575 V for standard applications

**Power dissipation in W**

- For standard applications: 1731 W
- For standard applications: 1958 W

**Utilisation category**

AC-53A

**Type of start**

Start with torque control (current limited to 5 In)

**Icl nominal current**

- 660 A (connection in the motor supply line) for severe applications
- 660 A (connection in the motor supply line) for standard applications

**IP degree of protection**

IP00

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### Complementary

<table>
<thead>
<tr>
<th>Assembly style</th>
<th>With heat sink</th>
</tr>
</thead>
<tbody>
<tr>
<td>Function available</td>
<td>External bypass (optional)</td>
</tr>
</tbody>
</table>

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Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications.
### Power supply voltage limits

<table>
<thead>
<tr>
<th>Voltage Range</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>177...759 V</td>
<td></td>
</tr>
</tbody>
</table>

### Power supply frequency

<table>
<thead>
<tr>
<th>Frequency Range</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>50...60 Hz (-5...5 %)</td>
<td></td>
</tr>
</tbody>
</table>

### Power supply frequency limits

<table>
<thead>
<tr>
<th>Frequency Range</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>47.5...63 Hz</td>
<td></td>
</tr>
</tbody>
</table>

### Device connection

In the motor supply line

### Factory setting current

590 A

### [Uc] control circuit voltage

110 - 15 % to 230 + 10 %, 50/60 Hz

### Control circuit consumption

80 W

### Discrete output number

2

#### Discrete output type

- (LO1) logic output 0 V common configurable
- (LO2) logic output 0 V common configurable
- (R1) relay outputs fault relay NO
- (R2) relay outputs end of starting relay NO
- (R3) relay outputs motor powered NO

### Output absolute accuracy precision

+/- 5 %

### Minimum switching current

Relay outputs 10 mA at 6 V DC

### Maximum switching current

- Logic output 0.2 A at 30 V DC
- Relay outputs 1.8 A at 230 V AC inductive load, cos phi = 0.5, L/R = 20 ms
- Relay outputs 1.8 A at 30 V DC inductive load, cos phi = 0.5, L/R = 20 ms

### Discrete input number

5

#### Discrete input type

- PTC, 750 Ohm at 77 °F (25 °C)
- (Stop, Run, LI3, LI4) logic, <= 8 mA 4300 Ohm

#### Discrete input voltage

24 V (<= 30 V)

#### Discrete input logic

- Positive logic (Stop, Run, LI3, LI4) state 0 < 5 V and <= 2 mA, state 1 > 11 V and >= 5 mA

### Starting current

Adjustable 0.4...1.3 lcl

### Analogue output type

(AO) current output 0-20 mA or 4-20 mA <= 500 Ohm

#### Communication port protocol

Modbus

#### Connector type

1 RJ45

#### Communication data link

Serial

#### Physical interface

RS485 multidrop

#### Transmission rate

4800, 9600 or 19200 bps

#### Max nodes number

31

### Protection type

Phase failure (line)
Thermal protection (motor)
Thermal protection (starter)

### Marking

CE

### Type of cooling

Forced convection

### Operating position

Vertical +/- 10 degree

#### Height

26.38 in (670 mm)

#### Width

15.75 in (400 mm)

#### Depth

11.81 in (300 mm)

### Product weight

113.32 lb (US) (51.4 kg)

### Motor power range AC-3

110...220 kW at 200...240 V 3 phases
250...500 kW at 380...440 V 3 phases

### Motor starter type

Soft starter

### Environment

Electromagnetic compatibility

- Conducted and radiated emissions conforming to IEC 60947-4-2 level A
- Damped oscillating waves conforming to IEC 61000-4-12 level 3
- Electrostatic discharge conforming to IEC 61000-4-2 level 3
- Immunity to electrical transients conforming to IEC 61000-4-4 level 4
- Immunity to radiated radio-electrical interference conforming to IEC 61000-4-3 level 3
- Voltage/current impulse conforming to IEC 61000-4-5 level 3

### Standards

EN/IEC 60947-4-2

### Product certifications

- CCC
- NOM 117
- UL
- C-Tick
- CSA
- TCF
**Vibration resistance**
1 gn (f = 13...200 Hz) conforming to EN/IEC 60068-2-6
1.5 mm (f = 2...13 Hz) conforming to EN/IEC 60068-2-6

**Shock resistance**
15 gn 11 ms conforming to EN/IEC 60068-2-27

**Noise level**
55 dB

**Pollution degree**
Level 3 conforming to IEC 60664-1

**Relative humidity**
0...95 % without condensation or dripping water conforming to EN/IEC 60068-2-3

**Ambient air temperature for operation**
40...60 °C with current derating of 2 % per °C
14...104 °F (-10...40 °C) without derating

**Ambient air temperature for storage**
-13...158 °F (-25...70 °C)

**Operating altitude**
<= 3280.84 ft (1000 m) without derating
> 3280.84...6561.68 ft (> 1000...2000 m) with current derating of 2.2 % per additional 100 m

### Ordering and shipping details

<table>
<thead>
<tr>
<th>Category</th>
<th>22579 - OPEN ATS48 ALTISTART</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discount Schedule</td>
<td>CP1G</td>
</tr>
<tr>
<td>GTIN</td>
<td>00785901982524</td>
</tr>
<tr>
<td>Nbr. of units in pkg.</td>
<td>1</td>
</tr>
<tr>
<td>Package weight(Lbs)</td>
<td>141</td>
</tr>
<tr>
<td>Returnability</td>
<td>Y</td>
</tr>
<tr>
<td>Country of origin</td>
<td>FR</td>
</tr>
</tbody>
</table>

### Offer Sustainability

California proposition 65
WARNING: This product can expose you to chemicals including:

- Substance 1
  Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.

- Substance 2
  Bisphenol A (BPA), which is known to the State of California to cause birth defects or other reproductive harm.

More information
For more information go to www.p65warnings.ca.gov

### Contractual warranty

| Warranty period | 18 months |