### Main

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range of product</td>
<td>Altistart 01</td>
</tr>
<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>Simple machine</td>
</tr>
<tr>
<td>Device short name</td>
<td>ATS01</td>
</tr>
<tr>
<td>Network number of phases</td>
<td>3 phases</td>
</tr>
<tr>
<td>[Us] rated supply voltage</td>
<td>380...415 V - 10...10 %</td>
</tr>
<tr>
<td>Motor power kW</td>
<td>11 kW 3 phases 380...415 V</td>
</tr>
<tr>
<td></td>
<td>7.5 kW 3 phases 380...415 V</td>
</tr>
<tr>
<td>IcL starter rating</td>
<td>22 A</td>
</tr>
<tr>
<td>Utilisation category</td>
<td>AC-53B EN/IEC 60947-4-2</td>
</tr>
<tr>
<td>Current consumption</td>
<td>110 A at nominal load</td>
</tr>
<tr>
<td>Type of start</td>
<td>Start with voltage ramp</td>
</tr>
<tr>
<td>Power dissipation in W</td>
<td>124.5 W in transient state</td>
</tr>
<tr>
<td></td>
<td>4.5 W at full load and at end of starting</td>
</tr>
</tbody>
</table>

### Complementary

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assembly style</td>
<td>With heat sink</td>
</tr>
<tr>
<td>Function available</td>
<td>Integrated bypass</td>
</tr>
<tr>
<td>Supply voltage limits</td>
<td>342...456 V</td>
</tr>
<tr>
<td>Supply frequency</td>
<td>50...60 Hz - 5...5 %</td>
</tr>
<tr>
<td>Network frequency</td>
<td>47.5...63 Hz</td>
</tr>
<tr>
<td>Output voltage</td>
<td>&lt;= power supply voltage</td>
</tr>
<tr>
<td>[Uc] control circuit voltage</td>
<td>Built into the starter</td>
</tr>
<tr>
<td>Starting time</td>
<td>1 s 100</td>
</tr>
<tr>
<td></td>
<td>10 s 10</td>
</tr>
<tr>
<td></td>
<td>5 s 20</td>
</tr>
<tr>
<td></td>
<td>Adjustable from 1 to 10 s</td>
</tr>
<tr>
<td>Deceleration time symb</td>
<td>Adjustable from 1 to 10 s</td>
</tr>
<tr>
<td>Starting torque</td>
<td>30...80 % of starting torque of motor connected directly on the line supply</td>
</tr>
<tr>
<td>Discrete input type</td>
<td>Logic L1, L2, BOOST stop, run and boost on start-up functions &lt;= 8 mA 27 kOhm</td>
</tr>
<tr>
<td>Discrete input voltage</td>
<td>24...40 V</td>
</tr>
<tr>
<td>Discrete input logic</td>
<td>Positive L1, L2, BOOST &lt; 5 V and &lt;= 0.2 mA &gt; 13 V &gt;= 0.5 mA</td>
</tr>
<tr>
<td>Feature</td>
<td>Details</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>-------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| Discrete output current                      | 2 A DC-13  
3 A AC-15                                                        |
| Discrete output type                         | Open collector logic LO1 end of starting signal  
Relay outputs R1A, R1C NO                                     |
| Discrete output voltage                      | 24 V 6...30 V open collector logic                                      |
| Minimum switching current                    | 10 mA 6 V DC relay outputs                                             |
| Maximum switching current                    | 2 A 250 V AC inductive cos phi = 0.5 20 ms relay outputs  
2 A 30 V DC inductive cos phi = 0.5 20 ms relay outputs |
| Display type                                 | 1 LED green starter powered up  
1 LED yellow nominal voltage reached                               |
| Tightening torque                            | 0.5 N.m  
1.9...2.5 N.m                                                       |
| Electrical connection                        | 4 mm screw clamp terminal rigid 1 1...10 mm² AWG 8 power circuit  
Screw connector rigid 1 0.5...2.5 mm² AWG 14 control circuit  
4 mm screw clamp terminal rigid 2 1...6 mm² AWG 10 power circuit  
Screw connector rigid 2 0.5...1 mm² AWG 17 control circuit  
Screw connector flexible with cable end 1 0.5...1.5 mm² AWG 16 control circuit  
4 mm screw clamp terminal flexible without cable end 1 1.5...10 mm² AWG 8 power circuit  
Screw connector flexible without cable end 1 0.5...2.5 mm² AWG 14 control circuit  
4 mm screw clamp terminal flexible with cable end 2 1...6 mm² AWG 10 power circuit  
4 mm screw clamp terminal flexible without cable end 2 1.5...6 mm² AWG 10 power circuit  
Screw connector flexible without cable end 2 0.5...1.5 mm² AWG 16 control circuit |
| Marking                                       | CE                                                                     |
| Operating position                           | Vertical +/- 10 degree                                                  |
| Height                                        | 154 mm                                                                 |
| Width                                         | 45 mm                                                                  |
| Depth                                         | 131 mm                                                                 |
| Product weight                               | 0.56 kg                                                                |
| Compatibility code                           | ATS01N2                                                                |
| Motor power range AC-3                       | 7...11 kW at 380...440 V 3 phases                                       |
| Motor starter type                           | Soft starter                                                           |
| Environment                                  |                                                                         |
| Electromagnetic compatibility                | Damped oscillating waves level 3 IEC 61000-4-12  
Electrostatic discharge level 3 IEC 61000-4-2  
Immunity to electrical transients level 4 IEC 61000-4-4  
Immunity to radiated radio-electrical interference level 3 IEC 61000-4-3  
Voltage/current impulse level 3 IEC 61000-4-5  
Conducted and radiated emissions level B CISPR 11  
Conducted and radiated emissions level B IEC 60947-4-2  
EMC immunity EN 50082-2  
Harmonics IEC 1000-3-2  
Harmonics IEC 1000-3-4  
Immunity to conducted interference caused by radio-electrical fields level 3 IEC 61000-4-6  
Micro-cuts and voltage fluctuation IEC 61000-4-11  
EMC immunity EN 50082-1 |
| Standards                                     | EN/IEC 60947-4-2                                                        |
| Product certifications                        | CCC  
UL  
B44.1-96/ASME A17.5 for starter wired to the motor delta terminal  
CSA  
GOST  
C-Tick |
| IP degree of protection                      | IP20                                                                   |
| Pollution degree                              | 2 EN/IEC 60947-4-2                                                      |
| Vibration resistance                          | 1.5 mm peak to peak 3...13 Hz EN/IEC 60068-2-6  
1 gn 13...150 Hz EN/IEC 60068-2-6                                   |
| Shock resistance                              | 15 gn 11 ms EN/IEC 60068-2-27                                          |
| Relative humidity                             | 5...95 % without condensation or dripping water EN/IEC 60068-2-3       |
| Ambient air temperature for operation         | -10...40 °C without derating  
40...50 °C with current derating of 2 % per °C                        |
| Ambient air temperature for storage           | -25...70 °C EN/IEC 60947-4-2                                            |
| Operating altitude                            | <= 1000 m without derating                                             |
> 1000 m with current derating of 2.2 % per additional 100 m

<table>
<thead>
<tr>
<th>Contractual warranty</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Warranty period</td>
<td>18 months</td>
</tr>
</tbody>
</table>