

# Product data sheet

Specifications



## soft starter for asynchronous motor - ATS01 - 85 A - 230..690V - 22..75 KW

ATS01N285LY

! Discontinued

! Discontinued on: Dec 31, 2010

! End-of-service on: Dec 31, 2012

### Main

Range of Product	Altistart 01
Product or Component Type	Soft starter
Product destination	Asynchronous motors
Product Specific Application	Simple machine
Device short name	ATS01
Phase	3 phase
[Us] rated supply voltage	230...690 V - 15...10 %
Motor power kW	22 kW, 3 phase 230 V 45 kW, 3 phase 400 V 75 kW, 3 phase 690 V
Maximum Horse Power Rating	30 hp, 3 phase 230 V 50 hp, 3 phase 400 V 60 hp, 3 phase 460 V 75 hp, 3 phase 575 V
IcL starter rating	85 A
Utilisation category	AC-53B EN/IEC 60947-4-2
Current consumption	255 A at nominal load
Type of start	Start with voltage ramp
Power dissipation in W	23 W at full load and at end of starting 514 W in transient state

### Complementary

Assembly style	With heat sink
Function Available	Integrated bypass
Supply voltage limits	195...759 V
Supply frequency	50...60 Hz - 5...5 %
Network Frequency	47.5...63 Hz
Output voltage	<= power supply voltage
[Uc] control circuit voltage	110 V AC +/- 10 %
Starting time	1 s / 360 12 s / 30 Adjustable from 1 to 25 s
Deceleration time symb	Adjustable from 1 to 25 s

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

<b>Starting torque</b>	30..80 % of starting torque of motor connected directly on the line supply
<b>Discrete input type</b>	Internal LI1, LI2, BOOST) stop, run and boost on start-up functions <= 8 mA
<b>Discrete input voltage</b>	24 V
<b>Discrete input logic</b>	Positive logic LI1, LI2, BOOST <= 3 V >= 10 V
<b>Discrete output current</b>	2 A DC-13 3 A AC-15
<b>Discrete output type</b>	Relay outputs R1A, R1C
<b>Discrete output voltage</b>	24 V DCrelay outputs 250 V ACrelay outputs
<b>Minimum switching current</b>	10 mA 17 V DC relay outputs
<b>Display type</b>	1 LED Green)starter powered up 1 LED Yellow)nominal voltage reached
<b>Tightening torque</b>	6.2 lbf.in (0.7 N.m) 44.3 lbf.in (5 N.m)
<b>Electrical connection</b>	Earth connection: tinned connector fixed using Ø 6 mm screws 4 mm screw clamp terminal - rigid 1 6...35 mm <sup>2</sup> power circuit Screw connector - rigid 1 0.75...1.5 mm <sup>2</sup> control circuit 4 mm screw clamp terminal - rigid 2 6...25 mm <sup>2</sup> power circuit Screw connector - rigid 2 0.75...1.5 mm <sup>2</sup> control circuit 4 mm screw clamp terminal - flexible with cable end 1 4...25 mm <sup>2</sup> power circuit Screw connector - flexible with cable end 1 0.75...1.5 mm <sup>2</sup> control circuit 4 mm screw clamp terminal - flexible without cable end 1 6...25 mm <sup>2</sup> power circuit Screw connector - flexible without cable end 1 0.75...1.5 mm <sup>2</sup> control circuit 4 mm screw clamp terminal - flexible with cable end 2 4...16 mm <sup>2</sup> power circuit Screw connector - flexible with cable end 2 0.75...1.5 mm <sup>2</sup> control circuit 4 mm screw clamp terminal - flexible without cable end 2 6...25 mm <sup>2</sup> power circuit Screw connector - flexible without cable end 2 0.75...1.5 mm <sup>2</sup> control circuit
<b>Marking</b>	CE
<b>Operating position</b>	Vertical +/- 10 degree
<b>Height</b>	5.7 in (146 mm)
<b>Width</b>	7.09 in (180 mm)
<b>Depth</b>	5.0 in (126 mm)
<b>Product Weight</b>	8.4 lb(US) (3.8 kg)
<b>Compatibility code</b>	ATS01N2

## Environment

<b>Electromagnetic compatibility</b>	Conducted and radiated emissions level B IEC 60947-4-2 Damped oscillating waves level 3 IEC 61000-4-12 Electrostatic discharge level 3 IEC 61000-4-2 EMC immunity EN 50082-1 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 Immunity to electrical transients level 4 IEC 61000-4-4 Immunity to radiated radio-electrical interference level 3 IEC 61000-4-3 Micro-cuts and voltage fluctuation IEC 61000-4-11 Voltage/current impulse level 3 IEC 61000-4-5
<b>Standards</b>	EN/IEC 60947-4-2
<b>Product Certifications</b>	CCC UL B44.1-96/ASME A17.5 for starter wired to the motor delta terminal C-tick GOST CSA
<b>IP Degree of Protection</b>	On front panel IP20

<b>Pollution degree</b>	3 IEC 60664-1 3 UL 508
<b>Vibration resistance</b>	2 gn
<b>Shock resistance</b>	8 gn 11 ms EN/IEC 60068-2-27
<b>Relative humidity</b>	5...95 % without condensation or dripping water EN/IEC 60068-2-3
<b>Ambient air temperature for operation</b>	32.0000000000...131.0000000000 °F (0...55 °C)
<b>Ambient air temperature for storage</b>	-13...158 °F (-25...70 °C) EN/IEC 60947-4-2
<b>Operating altitude</b>	<= 6561.68 ft (2000 m) without derating > 6561.68 ft (2000 m) with current derating of 0.5 % per additional 100 m

## Ordering and shipping details

<b>Category</b>	22393-ATS0 HIGHER HP SOFT STARTERS
<b>Discount Schedule</b>	I11
<b>GTIN</b>	00785901493518
<b>Returnability</b>	No
<b>Country of origin</b>	FR

## Contractual warranty

<b>Warranty</b>	18 months
-----------------	-----------