

ATS01N285Q

soft starter for asynchronous motor - ATS01 -
85 A - 400 V - 45 KW



Main

Range of product	Altistart 01
Product or component type	Soft starter
Product destination	Asynchronous motors
Product specific application	Simple machine
Component name	ATS01
Network number of phases	3 phases
Power supply voltage	400 V (- 15...10 %)
Motor power kW	45 kW at 400 V 3 phases
Motor power hp	50 hp at 400 V 3 phases
Icl nominal current	85 A
Utilisation category	AC-53B conforming to EN/IEC 60947-4-2
Current at nominal load	255 A at nominal load
Type of start	Start with voltage ramp
Power dissipation in W	514 W in transient state 23 W at full load and at end of starting

Complementary

Assembly style	With heat sink
Function available	Integrated bypass
Power supply voltage limits	340...440 V
Power supply frequency	50...60 Hz (- 5...5 %)
Power supply frequency limits	47.5...63 Hz
Output voltage	<= power supply voltage
Control circuit voltage	Built into the starter
Starting time	Adjustable from 1 to 25 s 12 s / 30 start(s) per hour 1 s / 360 start(s) per hour
Deceleration time symb	Adjustable from 1 to 25 s
Starting torque	30...80 % of starting torque of motor connected directly on the line supply
Discrete input type	(LI1, LI2, BOOST) stop, run and boost on start-up functions internal <= 8 mA
Discrete input voltage	24 V
Discrete input logic	(LI1, LI2, BOOST) positive logic state 0 <= 3 V, state 1 >= 10 V
Discrete output current	3 A AC-15 2 A DC-13
Discrete output type	(R1A, R1C) relay outputs
Discrete output voltage	250 V AC relay outputs 24 V DC relay outputs
Minimum switching current	Relay outputs 10 mA 17 V DC
Display type	1 LED (yellow) for nominal voltage reached 1 LED (green) for starter powered up
Tightening torque	0.7 N.m 5 N.m

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Electrical connection	2 conductor(s) flexible cable without cable end, connection via screw connector 0.75...1.5 mm ² for control circuit 2 conductor(s) flexible cable without cable end, connection via 4 mm screw clamp terminal 6...25 mm ² for power circuit 2 conductor(s) flexible cable with cable end, connection via screw connector 0.75...1.5 mm ² for control circuit 2 conductor(s) flexible cable with cable end, connection via 4 mm screw clamp terminal 4...16 mm ² for power circuit 1 conductor(s) flexible cable without cable end, connection via screw connector 0.75...1.5 mm ² for control circuit 1 conductor(s) flexible cable without cable end, connection via 4 mm screw clamp terminal 6...25 mm ² for power circuit 1 conductor(s) flexible cable with cable end, connection via screw connector 0.75...1.5 mm ² for control circuit 1 conductor(s) flexible cable with cable end, connection via 4 mm screw clamp terminal 4...25 mm ² for power circuit 2 conductor(s) rigid cable, connection via screw connector 0.75...1.5 mm ² for control circuit 2 conductor(s) rigid cable, connection via 4 mm screw clamp terminal 6...25 mm ² for power circuit 1 conductor(s) rigid cable, connection via screw connector 0.75...1.5 mm ² for control circuit 1 conductor(s) rigid cable, connection via 4 mm screw clamp terminal 6...35 mm ² for power circuit , connection via earth connection: tinned connector fixed using Ø 6 mm screws
Marking	CE
Operating position	Vertical +/- 10 degree
Height	146 mm
Width	180 mm
Depth	126 mm
Product weight	3.8 kg

Environment

Electromagnetic compatibility	Voltage/Current impulse conforming to IEC 61000-4-5 level 3 Micro-cuts and voltage fluctuation conforming to IEC 61000-4-11 Immunity to radiated radio-electrical interference conforming to IEC 61000-4-3 level 3 Immunity to electrical transients conforming to IEC 61000-4-4 level 4 Immunity to conducted interference caused by radio-electrical fields conforming to IEC 61000-4-6 level 3 Harmonics conforming to IEC 1000-3-4 Harmonics conforming to IEC 1000-3-2 EMC immunity conforming to EN 50082-2 EMC immunity conforming to EN 50082-1 Electrostatic discharge conforming to IEC 61000-4-2 level 3 Damped oscillating waves conforming to IEC 61000-4-12 level 3 Conducted and radiated emissions conforming to IEC 60947-4-2 level B
Standards	EN/IEC 60947-4-2
Product certifications	B44.1-96/ASME A17.5 for starter wired to the motor delta terminal CCC CSA C-Tick GOST UL
IP degree of protection	IP20 on front panel
Pollution degree	3 conforming to UL 508 3 conforming to IEC 60664-1
Vibration resistance	2 gn
Shock resistance	8 gn for 11 ms conforming to EN/IEC 60068-2-27
Relative humidity	5...95 % without condensation or dripping water conforming to EN/IEC 60068-2-3
Ambient air temperature for operation	0...55 °C
Ambient air temperature for storage	-25...70 °C conforming to EN/IEC 60947-4-2
Operating altitude	> 2000 m with current derating of 0.5 % per additional 100 m ≤ 2000 m without derating