



### Main

Range of product	Altistart 48
Product or component type	Soft starter
Product destination	Asynchronous motors
Product specific application	Heavy duty industry and pumps
Device short name	ATS48
[Us] rated supply voltage	230...415 V - 15...10 %
Motor power kW	630 kW at 400 V connection in the motor supply line for standard applications 710 kW at 400 V connection to the motor delta terminals for severe applications 250 kW at 230 V connection in the motor supply line for severe applications 355 kW at 230 V connection in the motor supply line for standard applications 500 kW at 230 V connection to the motor delta terminals for standard applications 500 kW at 400 V connection in the motor supply line for severe applications
Power dissipation in W	2865 W for severe applications 3497 W for standard applications
Utilisation category	AC-53A
Type of start	Start with torque control (current limited to 5 In)
IcL starter rating	1200 A for connection in the motor supply line for severe applications 1200 A for connection in the motor supply line for standard applications 2078 A for connection to the motor delta terminals for severe applications 2078 A for connection to the motor delta terminals for standard applications
IP degree of protection	IP00

### Complementary

Assembly style	With heat sink
Function available	External bypass (optional)
Supply voltage limits	195...456 V
Supply frequency	50...60 Hz - 5...5 %
Network frequency	47.5...63 Hz
Device connection	In the motor supply line To the motor delta terminals
Factory setting current	1045 A
[Uc] control circuit voltage	220 - 15 % to 415 + 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	10 MA at 6 V DC for relay outputs

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 20 ms Relay outputs 1.8 A at 30 V DC inductive load, cos phi = 0.5 20 ms
Discrete input number	5
Discrete input type	PTC, 750 Ohm at 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 at State 0: < 5 V and <= 2 mA at State 1: > 11 V, >= 5 mA
Supply inrush current	0.4...1.3 Icl adjustable
Analogue output type	Current output AO: 0-20 mA or 4-20 mA, impedance <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
Installed device	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	890 Mm
Width	770 Mm
Depth	315 Mm
Net weight	115 Kg
Power range	250...500 KW at 200...240 V 3 phases 560...900 KW at 380...440 V 3 phases
Motor starter type	Soft starter

## Environment

Electromagnetic compatibility	Conducted and radiated emissions level A conforming to IEC 60947-4-2 Damped oscillating waves level 3 conforming to IEC 61000-4-12 Electrostatic discharge level 3 conforming to IEC 61000-4-2 Immunity to electrical transients level 4 conforming to IEC 61000-4-4 Immunity to radiated radio-electrical interference level 3 conforming to IEC 61000-4-3 Voltage/Current impulse level 3 conforming to IEC 61000-4-5
Standards	EN/IEC 60947-4-2
Product certifications	UL CSA GOST TCF SEPRO DNV NOM 117 CCC C-Tick
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 for 11 ms conforming to EN/IEC 60068-2-27
Noise level	60 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) -10...40 °C (without derating)
Ambient air temperature for storage	-25...70 °C
Operating altitude	<= 1000 m without derating > 1000...2000 m with current derating of 2.2 % per additional 100 m

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

## Contractual warranty

Warranty	18 months
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Product Life Status : **Commercialised**