

# ATS48D38Y

soft starter for asynchronous motor - ATS48 -  
34 A - 208..690 V - 7.5..30 KW



## Main

Range of product	Altistart 48
Product or component type	Soft starter
Product destination	Asynchronous motors
Product specific application	Pumping and ventilation machine Severe and standard applications
Component name	ATS48
Power supply voltage	208...690 V (- 15...10 %)
Motor power kW	15 kW at 400 V for severe applications 15 kW at 440 V for severe applications 22 kW at 500 V for standard applications 22 kW at 525 V for standard applications 22 kW at 660 V for severe applications 22 kW at 690 V for severe applications 30 kW at 660 V for standard applications 30 kW at 690 V for standard applications 9 kW at 230 V for standard applications 7.5 kW at 230 V for severe applications 18.5 kW at 400 V for standard applications 18.5 kW at 440 V for standard applications 18.5 kW at 500 V for severe applications 18.5 kW at 525 V for severe applications
Motor power hp	10 hp at 208 V for standard applications 10 hp at 230 V for severe applications 20 hp at 460 V for severe applications 25 hp at 460 V for standard applications 25 hp at 575 V for severe applications 30 hp at 575 V for standard applications 7.5 hp at 208 V for severe applications
Power dissipation in W	116 W for standard applications 99 W for standard applications
Utilisation category	AC-53A
Type of start	Start with torque control (current limited to 5 In)
Icl nominal current	32 A for standard applications 38 A for standard applications
IP degree of protection	IP20

## Complementary

Assembly style	With heat sink
Function available	External bypass (optional)
Power supply voltage limits	177...759 V
Power supply frequency	50...60 Hz (- 5...5 %)
Power supply frequency limits	47.5...63 Hz
Factory setting current	34 A
Control circuit voltage	110 - 15 % to 230 + 10 %, 50/60 Hz
Control circuit consumption	30 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

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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 25 °C (Stop, Run, LI3, LI4) logic <= 8 mA 4300 Ohm
Discrete input voltage	24 V (<= 30 V)
Discrete input logic	(Stop, Run, LI3, LI4) positive logic state 0 < 5 V and < 2 mA state 1 > 11 V and > 5 mA
Starting current	Adjustable 0.4...1.3 Icl
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	275 mm
Width	160 mm
Depth	190 mm
Product weight	4.9 kg

## Environment

Electromagnetic compatibility	Conducted and radiated emissions conforming to IEC 60947-4-2 level A Conducted and radiated emissions conforming to IEC 60947-4-2 level B 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 CSA C-Tick DNV GOST NOM 117 SEPRO TCF UL
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	52 dB
Pollution degree	Level 3 conforming to IEC 60664-1
Relative humidity	<= 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
RoHS EUR status	Compliant
RoHS EUR conformity date	1009