Product data sheet Characteristics

ATS48C14Y

soft starter for asynchronous motor - ATS48 - 124 A - 208..690 V - 30..110 KW



Main

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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	
Device short name	ATS48	
[Us] rated supply voltage	208690 V (- 1510 %)	
Motor power kW	 110 kW at 660 V for standard applications 110 kW at 690 V for standard applications 30 kW at 230 V for severe applications 37 kW at 230 V for standard applications 55 kW at 400 V for severe applications 55 kW at 440 V for severe applications 75 kW at 400 V for standard applications 75 kW at 500 V for severe applications 75 kW at 525 V for severe applications 90 kW at 525 V for standard applications 90 kW at 600 V for severe applications 90 kW at 600 V for severe applications 90 kW at 690 V for severe applications 	
Motor power hp	 100 hp at 460 V for standard applications 100 hp at 575 V for severe applications 125 hp at 575 V for standard applications 30 hp at 208 V for severe applications 40 hp at 208 V for standard applications 40 hp at 230 V for severe applications 50 hp at 230 V for standard applications 75 hp at 460 V for severe applications 	
Power dissipation in W	For standard applications 306 W For standard applications 391 W	
Utilisation category	AC-53A	
Type of start	Start with torque control (current limited to 5 In)	
IcL starter rating	110 A for standard applications 140 A for standard applications	
May 24 2017		



Complementary

With heat sink External bypass (optional) 177759 V 5060 Hz (- 55 %) 47.563 Hz
177759 V 5060 Hz (- 55 %)
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47.5 62 Hz
47.505 112
In the motor supply line
124 A
110 - 15 % to 230 + 10 %, 50/60 Hz
30 W
2
 (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
+/- 5 %
Relay outputs 10 mA at 6 V DC
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
5
PTC, 750 Ohm at 25 °C (Stop, Run, Ll3, Ll4) logic, <= 8 mA 4300 Ohm
24 V (<= 30 V)
(Stop, Run, LI3, LI4) positive logic state 0 < 5 V and <= 2 mA, state 1 > 11 V and >= 5 mA
Adjustable 0.41.3 Icl
(AO) current output 0-20 mA or 4-20 mA <= 500 Ohm
Modbus
1 RJ45
Serial
RS485 multidrop
4800, 9600 or 19200 bps
31
Phase failure (line) Thermal protection (motor) Thermal protection (starter)
CE
Forced convection
Vertical +/- 10 degree
340 mm
200 mm
265 mm

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	DNV

	UL C-Tick SEPRO CCC TCF CSA GOST NOM 117
Vibration resistance	1 gn (f = 13200 Hz) conforming to EN/IEC 60068-2-6 1.5 mm (f = 213 Hz) conforming to EN/IEC 60068-2-6
Shock resistance	15 gn for 11 ms conforming to EN/IEC 60068-2-27
Noise level	50 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	-1040 °C without derating > 4060 °C with current derating of 2 % per °C
Ambient air temperature for storage	-2570 °C
Operating altitude	<= 1000 m without derating > 10002000 m with current derating of 2.2 % per additional 100 m

Contractual warranty	
Warranty period	18 months