ATS48D47Q

soft starter for asynchronous motor - ATS48 - 42 A - 230..415 V - 9..45 KW

Main

Commercial Status	Commercialised	
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	230415 V (- 1510 %)	
Motor power kW	45 kW at 400 V (connection to the motor delta terminals) for standard applications 30 kW at 400 V (connection to the motor delta terminals) for severe applications 22 kW at 400 V (connection in the motor supply line) for standard applications 22 kW at 230 V (connection to the motor delta terminals) for standard applications 18.5 kW at 400 V (connection in the motor supply line) for severe applications 18.5 kW at 230 V (connection to the motor delta terminals) for severe applications 11 kW at 230 V (connection in the motor supply line) for standard applications 9 kW at 230 V (connection in the motor supply line) for severe applications	
Power dissipation in W	142 W for standard applications 116 W for severe applications	
Utilisation category	AC-53A	
Type of start	Start with torque control (current limited to 5 ln)	
Icl nominal current	81 A (connection to the motor delta terminals) for standard applications 66 A (connection to the motor delta terminals) for severe applications 47 A (connection in the motor supply line) for standard applications 38 A (connection in the motor supply line) for severe applications	
IP degree of protection	IP20	

Complementary

With heat sink	
External bypass (optional)	
195456 V	
5060 Hz (- 55 %)	
47.563 Hz	
In the motor supply line To the motor delta terminals	
42 A	
220 - 15 % to 415 + 10 %, 50/60 Hz	
30 W	
2	
 (R3) relay outputs motor powered NO (R2) relay outputs end of starting relay NO (R1) relay outputs fault relay NO (LO2) logic output 0 V common configurable (LO1) logic output 0 V common configurable 	

Output absolute accuracy precision	+/- 5 %
Minimum switching current	Relay outputs 10 mA at 6 V DC
Maximum switching current	Relay outputs 1.8 A at 30 V DC inductive load, cos phi = 0.5, L/R = 20 ms Relay outputs 1.8 A at 230 V AC inductive load, cos phi = 0.5, L/R = 20 ms Logic output 0.2 A at 30 V DC
Discrete input number	5
Discrete input type	(Stop, Run, Ll3, Ll4) logic, <= 8 mA 4300 Ohm PTC, 750 Ohm at 25 °C
Discrete input voltage	24 V (<= 30 V)
Discrete input logic	(Stop, Run, Ll3, Ll4) positive logic state 0 < 5 V and < 2 mA, state 1 > 11 V and > 5 mA
Starting current	Adjustable 0.41.3 lcl
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	Thermal protection (starter) Thermal protection (motor) Phase failure (line)
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	Voltage/Current impulse conforming to IEC 61000-4-5 level 3 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
	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
	Conducted and radiated emissions conforming to IEC 60947-4-2 level A
Standards	EN/IEC 60947-4-2
Product certifications	CCC
	CSA
	C-Tick
	DNV
	GOST
	NOM 117
	SEPRO
	TCF
	UL
Vibration resistance	1.5 mm (f = 213 Hz) conforming to EN/IEC 60068-2-6
	1 gn (f = 13200 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	-1040 °C without derating
	> 4060 °C with current derating of 2 % per °C
Ambient air temperature for storage	-2570 °C
Operating altitude	> 10002000 m with current derating of 2.2 % per additional 100 m <= 1000 m without derating

Contractual warranty

Period	18 months