Product data sheet Characteristics

ATS48C41Q

soft starter for asynchronous motor - ATS48 - 388 A - 230..415 V - 90..315 KW



NΛ	2	in	
IVI	ч		

Main Range of product	Altistart 48	
Range of product		
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	230415 V (- 1510 %)	
Motor power kW	90 kW at 230 V (connection in the motor supply line) for severe applications 110 kW at 230 V (connection in the motor supply line) for standard applications 160 kW at 230 V (connection to the motor delta terminals) for severe applications 160 kW at 400 V (connection in the motor supply line) for severe applications 220 kW at 230 V (connection to the motor delta terminals) for standard applications 220 kW at 400 V (connection in the motor supply line) for standard applications 250 kW at 400 V (connection to the motor delta terminals) for severe applications 315 kW at 400 V (connection to the motor delta terminals) for standard applications	
Power dissipation in W	For severe applications 1017 W For standard applications 1339 W	
Utilisation category	AC-53A	
Type of start	Start with torque control (current limited to 5 ln)	
IcL starter rating	410 A (connection in the motor supply line) for severe applications 710 A (connection to the motor delta terminals) for severe applications 710 A (connection to the motor delta terminals) for standard applications 410 A (connection in the motor supply line) for standard applications	
IP degree of protection	IP00	
Complementary		
Assembly style	With heat sink	

Complementary

Complementary		
Assembly style	With heat sink	
Function available	External bypass (optional)	
Supply voltage limits	195456 V	<u></u>
Supply frequency	5060 Hz (- 55 %)	
Network frequency	47.563 Hz	
Device connection	In the motor supply line To the motor delta terminals	jean
Factory setting current	388 A	-
[Uc] control circuit voltage	220 - 15 % to 415 + 10 %, 50/60 Hz	
Control circuit consumption	80 W	. <u> </u>

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
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, Ll3, Ll4) logic, <= 8 mA 4300 Ohm
Discrete input voltage	24 V (<= 30 V)
Discrete input logic	Positive logic (Stop, Run, LI3, LI4) state 0 < 5 V and <= 2 mA, state 1 > 11 V and >= 5 mA
Supply inrush current	Adjustable 0.41.3 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
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	670 mm
Width	400 mm
Depth	300 mm
Product weight	51.4 kg
Power range	55100 kW at 200240 V 3 phases 110220 kW at 380440 V 3 phases 110220 kW at 200240 V 3 phases 250500 kW at 380440 V 3 phases
Motor starter type	Soft starter

Environment

Electromagnetic compatibility	Conducted and radiated emissions conforming to IEC 60947-4-2 level A 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 = 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	55 dB
Pollution degree	Level 3 conforming to IEC 60664-1
Relative humidity	095 % without condensation or dripping water conforming to EN/IEC 60068-2-3
Ambient air temperature for operation	4060 °C with current derating of 2 % per °C -1040 °C without derating
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

Product data sheet Dimensions Drawings

ATS48C41Q

Dimensions

- (1) Right View
- (2) Front View

Product data sheet Mounting and Clearance

ATS48C41Q

Clearance

