

ATS48D88Q

soft starter for asynchronous motor - ATS48 -
81 A - 230..415 V - 18.5..75 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
[Us] rated supply voltage	230...415 V - 15...10 %
Motor power kW	22 kW 230 V connection in the motor supply line for standard applications 37 kW 230 V connection to the motor delta terminals for severe applications 37 kW 400 V connection in the motor supply line for severe applications 45 kW 230 V connection to the motor delta terminals for standard applications 45 kW 400 V connection in the motor supply line for standard applications 55 kW 400 V connection to the motor delta terminals for severe applications 75 kW 400 V connection to the motor delta terminals for standard applications 18,5 kW 230 V connection in the motor supply line for severe applications
Power dissipation in W	245 W for severe applications 290 W for standard applications
Utilisation category	AC-53A
Type of start	Start with torque control (current limited to 5 In)
IcL starter rating	75 A connection in the motor supply line for severe applications 88 A connection in the motor supply line for standard applications 130 A connection to the motor delta terminals for severe applications 152 A connection to the motor delta terminals for standard applications
IP degree of protection	IP20

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 limits	47,5...63 Hz
Device connection	In the motor supply line To the motor delta terminals
Factory setting current	81 A
Control circuit voltage	220 - 15 % to 415 + 10 % 50/60 Hz
Control circuit consumption	30 W
Discrete output number	2
Discrete output type	Logic output LO1 0 V common configurable Logic output LO2 0 V common configurable Relay outputs R1 fault relay NO Relay outputs R2 end of starting relay NO Relay outputs R3 motor powered NO
Output absolute accuracy precision	+/- 5 %

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Minimum switching current	10 mA 6 V DC relay outputs
Maximum switching current	0,2 A 30 V DC logic output 1,8 A 30 V DC inductive cos phi = 0.5 20 ms relay outputs 1,8 A 230 V AC inductive cos phi = 0.5 20 ms relay outputs
Discrete input number	5
Discrete input type	PTC 750 Ohm 25 °C Logic Stop, Run, LI3, LI4 ≤ 8 mA 4300 Ohm
Discrete input voltage	24 V ≤ 30 V
Discrete input logic	Positive logic Stop, Run, LI3, LI4 < 5 V < 2 mA > 11 V > 5 mA
Supply inrush current	0.4...1.3 Icl adjustable
Analog output type	Current output AO 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 starter Thermal protection motor
Marking	CE
Type of cooling	Forced convection
Operating position	Vertical +/- 10 degree
Product weight	8,3 kg

Environment

Electromagnetic compatibility	Conducted and radiated emissions level A IEC 60947-4-2 Conducted and radiated emissions level B IEC 60947-4-2 Damped oscillating waves level 3 IEC 61000-4-12 Electrostatic discharge level 3 IEC 61000-4-2 Immunity to electrical transients level 4 IEC 61000-4-4 Immunity to radiated radio-electrical interference level 3 IEC 61000-4-3 Voltage/Current impulse level 3 IEC 61000-4-5
Standards	EN/IEC 60947-4-2
Product certifications	C-Tick CCC CSA DNV (Det Norske Veritas) GOST NOM 117 SEPRO TCF UL
Vibration resistance	1.5 mm 2...13 Hz EN/IEC 60068-2-6 1 gn 13...200 Hz EN/IEC 60068-2-6
Shock resistance	15 gn 11 ms EN/IEC 60068-2-27
Noise level	58 dB
Pollution degree	Level 3 IEC 60664-1
Relative humidity	≤ 95 % without condensation or dripping water EN/IEC 60068-2-3
Ambient air temperature for operation	-10...40 °C without derating > 40...60 °C with current derating of 2 % per °C
Ambient air temperature for storage	-25...70 °C
Operating altitude	> 1000...2000 m with current derating of 2.2 % per additional 100 m ≤ 1000 m without derating
RoHS EUR conformity date	4Q2009
RoHS EUR status	Will be compliant