



# soft starter for asynchronous motor, ATS48, 560 A, 230..415 V, 132..400 KW

ATS48C59Q

#### Main

Product destination Asynchronous motors  Product specific application Heavy duty industry and pumps  Device short name ATS48  Power supply voltage 230415 V - 1510 %  Motor power kW 132 kW at 230 V connection in the motor supply line for severe applications 160 kW at 230 V connection in the motor supply line for standard applications 250 kW at 230 V connection in the motor supply line for severe applications 250 kW at 400 V connection in the motor supply line for severe applications 315 kW at 400 V connection in the motor supply line for severe applications 355 kW at 400 V connection to the motor delta terminals for severe applications 400 kW at 400 V connection to the motor delta terminals for severe applications 400 kW at 400 V connection to the motor delta terminals for standard applications  Power dissipation in W 1386 W for severe applications 1731 W for standard applications		
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### Complementary

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Assembly style	With heat sink
Function available	External bypass (optional)
Power supply frequency	5060 Hz - 55 %
Power supply frequency limits	47.563 Hz
Device connection	To the motor delta terminals In the motor supply line
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	10 mA at 6 V DC for relay outputs

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 20 ms Relay outputs 1.8 A at 30 V DC inductive load, cos phi = 0.5 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 at State 0: < 5 V and <= 2 mA at State 1: > 11 V, >= 5 mA
Starting current	0.41.3 lcl adjustable
Analogue output type	Current output AO: 0-20 mA or 4-20 mA, impedance <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
Operating position	Vertical +/- 10 degree
Height	670 mm
Width	400 mm
Depth	300 mm
Net weight	51.4 kg
Motor power range AC-3	110220 kW at 200240 V 3 phases 250500 kW at 380440 V 3 phases 250500 kW at 200240 V 3 phases
Motor starter type	Soft starter
Environment	
Electromagnetic compatibility	Conducted and radiated emissions level A conforming to IEC 60947-4-2

Electromagnetic compatibility	Conducted and radiated emissions level A conforming to IEC 60947-4-2 Damped oscillating waves level 3 conforming to IEC 61000-4-12 Electrostatic discharge level 3 conforming to IEC 61000-4-2 Immunity to electrical transients level 4 conforming to IEC 61000-4-4 Immunity to radiated radio-electrical interference level 3 conforming to IEC 61000-4-3 Voltage/current impulse level 3 conforming to IEC 61000-4-5
Standards	EN/IEC 60947-4-2
Product certifications	TCF DNV UL CCC CSA NOM 117 SEPRO GOST C-Tick
Noise level	55 dB
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

### **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	53.025 kg
Package 1 Height	39 cm
Package 1 width	58.5 cm
Package 1 Length	78 cm
Unit Type of Package 2	P06
Number of Units in Package 2	1
Package 2 Weight	61.525 kg
Package 2 Height	77 cm
Package 2 width	80 cm
Package 2 Length	60 cm

# Offer Sustainability

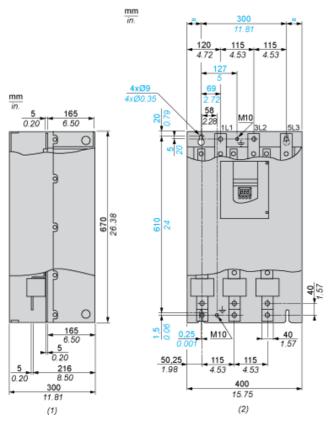
Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

### **Contractual warranty**

Warranty	18 months

**Dimensions Drawings** 

#### **Dimensions**



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

## **Product data sheet**

# **ATS48C59Q**

Mounting and Clearance

### Clearance

