

# Product data sheet

Specifications



## soft starter for asynchronous motor, ATS48, 605 A, 230..415 V, 160..500 KW

ATS48C66Q

### Main

Range of product	Altistart 48
Product or component type	Soft starter
Product destination	Asynchronous motors
Product specific application	Heavy duty industry and pumps
Device short name	ATS48
Power supply voltage	230...415 V - 15...10 %
Motor power kW	160 kW at 230 V connection in the motor supply line for severe applications 315 kW at 230 V connection to the motor delta terminals for standard applications 315 kW at 400 V connection in the motor supply line for severe applications 355 kW at 400 V connection in the motor supply line for standard applications 400 kW at 400 V connection to the motor delta terminals for severe applications 500 kW at 400 V connection to the motor delta terminals for standard applications
Power dissipation in W	1731 W for standard applications 1958 W for severe applications
Utilisation category	AC-53A
Type of start	Start with torque control (current limited to 5 In)
Icl nominal current	660 A for connection in the motor supply line for severe applications 660 A for connection in the motor supply line for standard applications 1143 A for connection to the motor delta terminals for standard applications 1143 A for connection to the motor delta terminals for severe applications

### Complementary

Assembly style	With heat sink
Function available	External bypass (optional)
Power supply frequency	50...60 Hz - 5...5 %
Power supply frequency limits	47.5...63 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

<b>Maximum switching current</b>	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
<b>Discrete input number</b>	5
<b>Discrete input type</b>	PTC, 750 Ohm at 25 °C (Stop, Run, LI3, LI4) logic, <= 8 mA 4300 Ohm
<b>Discrete input voltage</b>	24 V <= 30 V
<b>Discrete input logic</b>	Positive logic Stop, Run, LI3, LI4 at State 0: < 5 V and <= 2 mA at State 1: > 11 V, >= 5 mA
<b>Starting current</b>	0.4...1.3 Icl adjustable
<b>Analogue output type</b>	Current output AO: 0-20 mA or 4-20 mA, impedance <500 Ohm
<b>Communication port protocol</b>	Modbus
<b>Connector type</b>	1 RJ45
<b>Communication data link</b>	Serial
<b>Physical interface</b>	RS485 multidrop
<b>Transmission rate</b>	4800, 9600 or 19200 bps
<b>Max nodes number</b>	31
<b>Protection type</b>	Phase failure: line Thermal protection: motor Thermal protection: starter
<b>Marking</b>	CE
<b>Operating position</b>	Vertical +/- 10 degree
<b>Height</b>	670 mm
<b>Width</b>	400 mm
<b>Depth</b>	300 mm
<b>Net weight</b>	51.4 kg
<b>Motor power range AC-3</b>	110...220 kW at 200...240 V 3 phases 250...500 kW at 380...440 V 3 phases 250...500 kW at 200...240 V 3 phases
<b>Motor starter type</b>	Soft starter

## Environment

<b>Electromagnetic compatibility</b>	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
<b>Standards</b>	EN/IEC 60947-4-2
<b>Product certifications</b>	DNV SEPRO TCF CCC UL CSA NOM 117 C-Tick GOST
<b>Noise level</b>	55 dB
<b>Relative humidity</b>	0...95 % without condensation or dripping water conforming to EN/IEC 60068-2-3
<b>Ambient air temperature for operation</b>	40...60 °C (with current derating of 2 % per °C) -10...40 °C (without derating)
<b>Ambient air temperature for storage</b>	-25...70 °C
<b>Operating altitude</b>	<= 1000 m without derating > 1000...2000 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	53.405 kg
Package 1 Height	39 cm
Package 1 width	59 cm
Package 1 Length	78 cm
Unit Type of Package 2	P06
Number of Units in Package 2	1
Package 2 Weight	61.905 kg
Package 2 Height	77 cm
Package 2 width	80 cm
Package 2 Length	60 cm

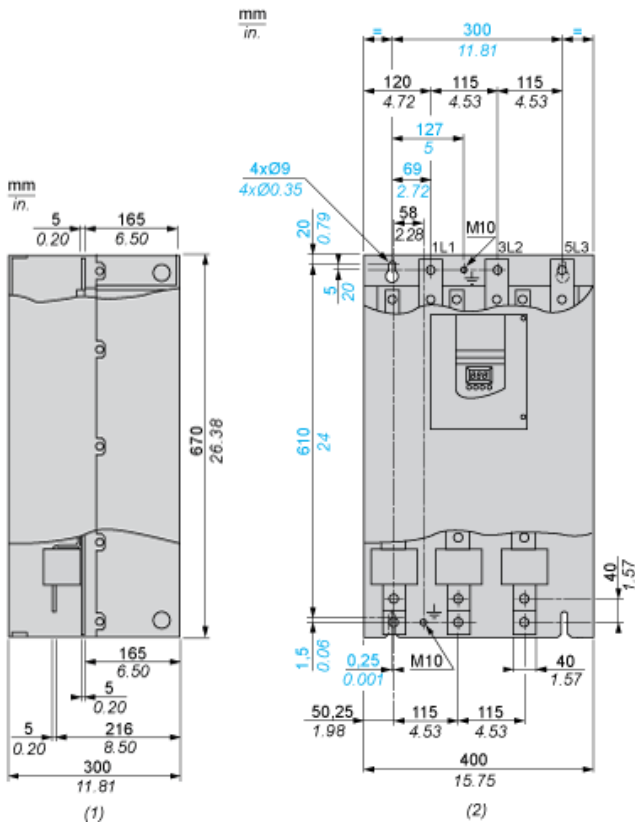
## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End of Life Information</a>
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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

## Contractual warranty

Warranty	18 months
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Dimensions



(1) Right View  
(2) Front View

Clearance

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