www.BaBaedison.com / ٥٩١٢-٥٠ ۶٧ ٢٧ ٨ / ٢٥٥ داخلی ٢٥٥ / ٢ ٢ ٢ ٨ / ٩٩٢ مين كننده تجهيزات برق صنعتی / ٢٢ ٥٩٥٥-٢١ داخلی ٢٠٥٠ كالميك گرويد

Product datasheet

Specifications





Soft starter, Altistart 480, 410A, 208 to 690V AC, control supply 110 to 230V AC

ATS480C41Y

Main

main				
Range Of Produc	Altivar Soft Starter ATS480			
Product Or Component Type	Soft starter			
Product Destination	Asynchronous motors			
Product Specific Application	Process and infrastructures			
Device Short Name	ATS480			
Network Number Of Phases	3 phases			
Utilisation Category	AC-3A AC-53A			
Ue Power Supply Voltage	208690 V - 1510 %			
Power Supply Frequency	5060 Hz - 2020 %			
[le] Rated Operational Current	Normal duty: 410.0 A (at <40 °C)			
Rated Current In Heavy Duty	320.0 A at 40 °C for heavy duty			
Torque Control	True			
Ip Degree Of Protection	IP00			
Motor Power Kw	110.0 kW at 230 V in the motor supply line normal duty 90.0 kW at 230 V in the motor supply line heavy duty 220.0 kW at 400 V in the motor supply line normal duty 160.0 kW at 400 V in the motor supply line heavy duty 220.0 kW at 440 V in the motor supply line heavy duty 250.0 kW at 440 V in the motor supply line heavy duty 250.0 kW at 500 V in the motor supply line heavy duty 250.0 kW at 500 V in the motor supply line heavy duty 250.0 kW at 525 V in the motor supply line heavy duty 250.0 kW at 525 V in the motor supply line heavy duty 250.0 kW at 660 V in the motor supply line heavy duty 355.0 kW at 660 V in the motor supply line heavy duty 355.0 kW at 660 V in the motor supply line heavy duty 250.0 kW at 600 V in the motor supply line heavy duty 400.0 kW at 690 V in the motor supply line heavy duty 315.0 kW at 690 V in the motor delta terminals normal duty 315.0 kW at 400 V to the motor delta terminals normal duty 315.0 kW at 400 V to the motor delta terminals normal duty			
Motor Power Hp	125.0 hp at 208 V normal duty 100.0 hp at 208 V heavy duty 150.0 hp at 230 V normal duty 125.0 hp at 230 V heavy duty 300.0 hp at 460 V normal duty 250.0 hp at 460 V heavy duty 350.0 hp at 575 V normal duty 300.0 hp at 575 V heavy duty			
Option Card	Communication module for Profibus DP V1 Communication module for PROFINET Communication module for Modbus TCP/EtherNet/IP Communication module for CANopen daisy chain Communication module for CANopen Sub-D Communication module for CANopen open style			

Complementary

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Device Connection	In the motor supply line To the motor delta terminals		
[Us] Control Circuit Voltage	110250 V AC 50/60 Hz - 1510 %		
Apparent Power	0.106 kVA		
Integrated Motor Overload Protection	True		
Motor Thermal Protection Class	Class 10E		
Protection Type	Phase failure: line Integrated thermal protection: motor Thermal protection: starter Current overload: motor Underload: motor Excessive starting time, locked rotor: motor Motor phase loss: motor Line supply phase loss: line Line supply phase loss: motor Thermal protection: motor		
Current Limiting %In (5 X le Maximum)	150700 %		
Rated Current Pwr Loss Specification	410.0 A		
Power Loss Static Current Independent	25.0 W		
Power Loss Per Device Current Dependent	1319.0 W		
Standards	IEC 60947-4-2 UL 60947-4-2 IEC 60664-1		
Product Certifications	CE CULus CCC UKCA RCM EAC DNV ABS BV CCS		
Marking	CE CCC UKCA EAC RCM CULus		
[Uc] Control Circuit Voltage	24 V DC		
Discrete Input Number	4		
Discrete Input Type	(STOP) logic inputs, 3500 Ohm (RUN) logic inputs, 3500 Ohm (DI3) programmable as logic input, 3500 Ohm (DI4) programmable as logic input, 3500 Ohm		
Input Compatibility	STOP: discrete input level 1 PLC conforming to IEC 61131-2 RUN: discrete input level 1 PLC conforming to IEC 61131-2 DI3: discrete input level 1 PLC conforming to IEC 61131-2 DI4: discrete input level 1 PLC conforming to IEC 61131-2		
Discrete Input Logic	Programmable digital input at State 0: < 5 V		
Relay Output Number	3		
Relay Output Type	Relay outputs R1A 1 NO Relay outputs R1B 1 NO Relay outputs RIC NO/NC programmable		
Minimum Switching Current	100 mA at 12 V DC for relay outputs		

Maximum Switching Current	Relay outputs 2 A at 250 V AC			
	Relay outputs 2 A at 30 V DC Relay outputs			
Discrete Output Number	2			
Discrete Output Type	(DQ1) programmable digital output <= 30 V (DQ2) programmable digital output <= 30 V			
Output Compatibility	Open collector level 1 PLC conforming to IEC 65A-68			
Analogue Input Number	1			
Analogue Input Type	Al1/PTC PTC/Pt 100 temperature probe PTC2 PTC/Pt 100 temperature probe PTC3 PTC/Pt 100 temperature probe			
Analogue Output Number	1			
Analogue Output Type	Current output AQ1: 020 mA or 010 V, impedance <500 Ohm			
Communication Port Protocol	Modbus serial			
Connector Type	1 RJ45			
Communication Data Link	Serial			
Physical Interface	2-wire RS 485			
Transmission Rate	1200256000 bit/s			
Transmission Frame	RTU			
Data Format	8 bits, configurable odd, even or no parity			
Type Of Polarization	No impedance for Modbus serial			
Number Of Addresses	0227 for Modbus serial			
Method Of Access	Slave Modbus serial			
Function Available	External bypass control Pre-heating Smoke extraction Multi-motor cascade Second motor set User management Ports and services hardening Security event logging Cybersecure firmware update Single direction			
Display Screen Available	True			
Operating Position	Vertical +/- 10 degree			
Height	670.0 mm			
Width	400.0 mm			
Depth	314.0 mm			
Net Weight	51.4 kg			
Environment				
Electromagnetic Compatibility	Conducted and radiated emissions level A conforming to IEC 60947-4-2 Conducted and radiated emissions with bypass level B conforming to IEC 60947-4-2 Damped oscillating waves level 3 conforming to IEC 61000-4-12 Electrostatic discharge level 3 conforming to IEC 61000-4-11 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			
Pollution Degree	Level 3			
[Uimp] Rated Impulse Withstand	6 kV			

[Uimp] Rated Impulse Withstand 6 kV Voltage

[Ui] Rated Insulation Voltage	690 V			
Environmental Class (During Operation)	Class 3C3 according to IEC 60721-3-3 Class 3S2 according to IEC 60721-3-3			
Relative Humidity	095 % without condensation or dripping water conforming to IEC 60068-2-3			
Ambient Air Temperature For Operation	4060 °C (with current derating of 2 % per °C) -1540 °C (without derating)			
Ambient Air Temperature For Storage	-2570 °C			
Operating Altitude	<= 1000 m without derating > 10004000 m with current derating 1 % per 100 m			
Maximum Deflection Under Vibratory Load (During Operation)	1.5 mm at 213 Hz			
Maximum Deflection Under Vibratory Load (During Storage)	1.75 mm at 29 Hz			
Maximum Deflection Under Vibratory Load (During Transport)	1.75 mm at 29 Hz			
Maximum Acceleration Under Vibrational Stress (During Operation)	10 m/s² at 13200 Hz			
Maximum Acceleration Under Vibratory Load (During Storage)	15 m/s² at 200500 Hz 10 m/s² at 9200 Hz			
Maximum Acceleration Under Vibratory Load (During Transport)	15 m/s² at 200500 Hz 10 m/s² at 9200 Hz			
Maximum Acceleration Under Shock Impact (During Operation)	150 m/s² at 11 ms			
Maximum Acceleration Under Shock Load (During Storage)	100 m/s² at 11 ms			
Maximum Acceleration Under Shock Load (During Transport)	100 m/s² at 11 ms			
Packing Units				
Unit Type Of Backage 1	DOF			

Packing Units

N.

Unit Type Of Package 1	PCE	
Number Of Units In Package 1	1	
Package 1 Height	55.0 cm	
Package 1 Width	53.0 cm	
Package 1 Length	81.0 cm	
Package 1 Weight	60.0 kg	

Sustainability Seren

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Resource performance

Upgraded Components Available

Well-being performance



FQ

Rohs Exemption Information

Yes

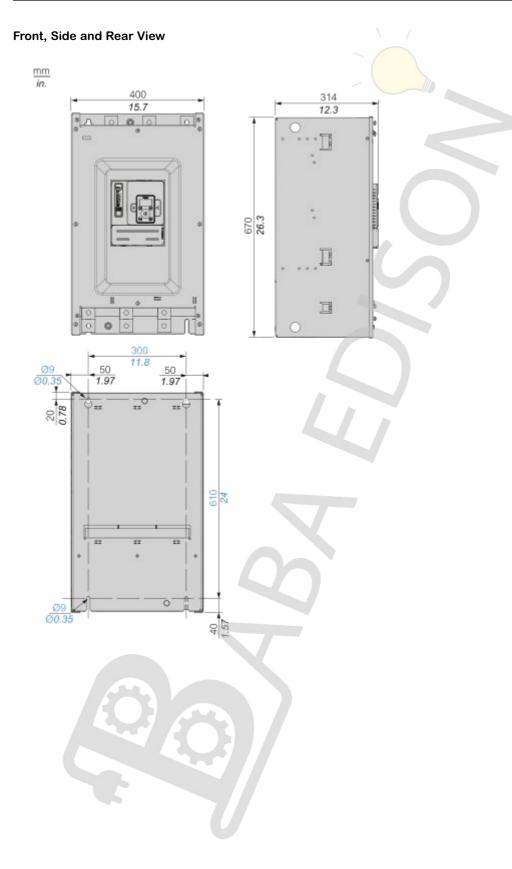
Certifications & Standards

Reach Regulation	REACh Declaration		
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)		
China Rohs Regulation	China RoHS declaration		
Environmental Disclosure	Product Environmental Profile		
Weee	The product must be disposed on European Union markets following specific was collection and never end up in rubbish bins		
Circularity Profile	End of Life Information		

4

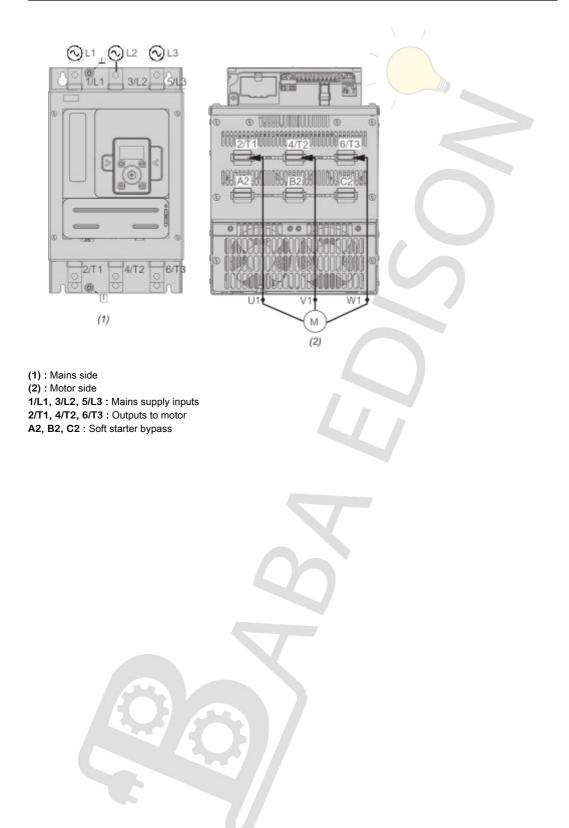
Dimensions Drawings

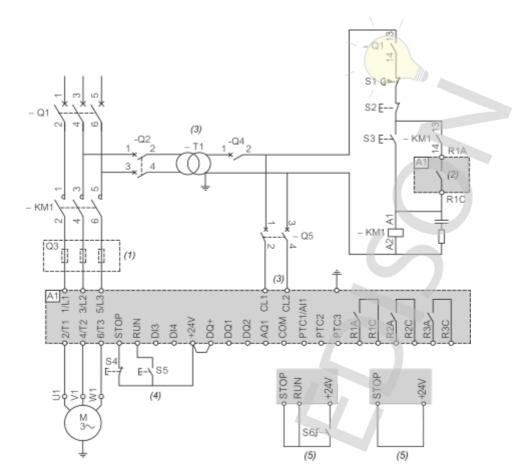
Dimensions



Connections and Schema

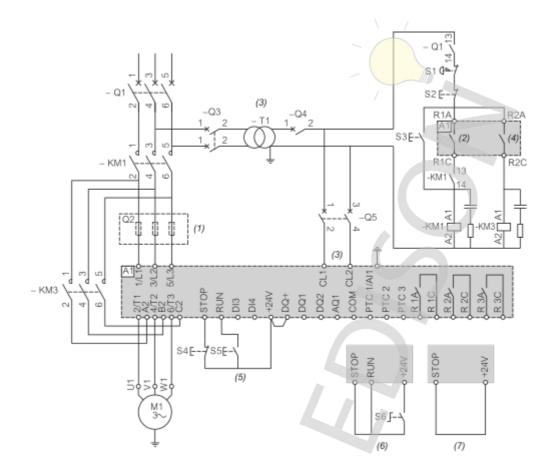
Power Connections





Connection in line, with line contactor, no bypass, type 1 or 2 coordination, non - reversing, 2-wire or 3-wire control

- (1) : Installation of additional fast-acting fuses to upgrade to type 2 coordination according to IEC 60947-4-2.
- (2) : Take into account the electrical characteristics of the relays (Control Terminal Characteristics).
- (3) : The transformer must supply 110...230 VAC +10% 15%, 50/60Hz.
- (4) : RUN and STOP Management (3-wire control).
- (5) : RUN and STOP Management (2-wire control).



Connection in line, with line and bypass contactor, freewheel or controlled stop, type 1 or 2 coordination, non reversing, 2-wire or 3-wire

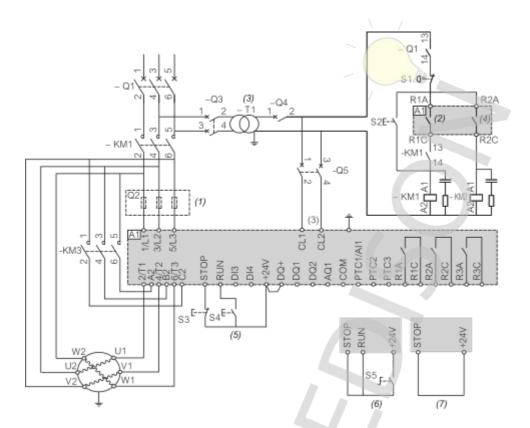
(1) : Installation of additional fast-acting fuses to upgrade to type 2 coordination according to IEC 60947-4-2.

(2) : Take into account the electrical characteristics of the relays (Control Terminal Characteristics).

(3) : The transformer must supply 110...230 VAC +10% - 15%, 50/60Hz.

(4) : Take into account the electrical characteristics of the relays, especially when connecting to high rating contactor (Control Terminal Characteristics).

- (5) : RUN and STOP Management (3-wire control).
- (6) : RUN and STOP Management (2-wire control).
- (7) : PC or PLC control



Connection inside the delta, with line and bypass contactor, type 1 and 2 coordination, non reversing, 2 wire or 3 wire

(1) : Installation of additional fast-acting fuses to upgrade to type 2 coordination according to IEC 60947-4-2.

(2) : Take into account the electrical characteristics of the relays (Control Terminal Characteristics).

(3) : The transformer must supply 110...230 VAC +10% - 15%, 50/60Hz.

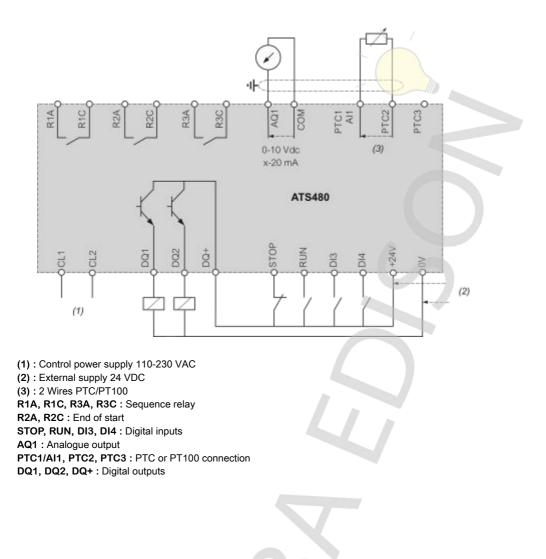
(4) : Take into account the electrical characteristics of the relays, especially when connecting to high rating contactor

(Control Terminal Characteristics).

- (5) : RUN and STOP Management (3-wire control).
- (6) : RUN and STOP Management (2-wire control).

(7) : PC or PLC control

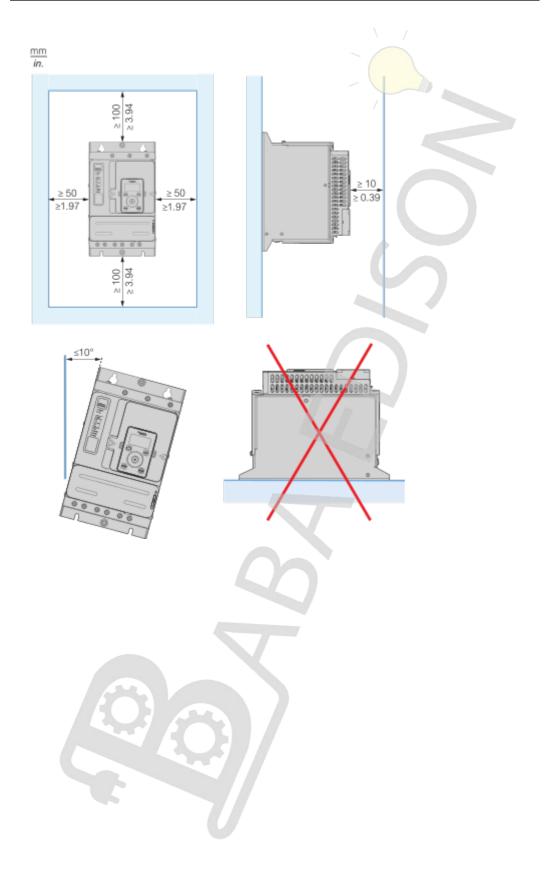
Control block wiring diagram



ATS480C41Y

Mounting and Clearance

Mounting Position





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