Product data sheet

Specification





Soft starter, Altistart 480, 88A, 208 to 690V AC, control supply 110 to 230V AC

ATS480D88Y

Product availability: Stock - Normally stocked in distribution

acility

Price*: 1,710.99 USD

Main

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Range Of Product	Altivar Soft Starter ATS480
Product Or Component Type	Soft starter
Product Destination	Asynchronous motors
Product Specific Application	Process and infrastructures
Device Short Name	ATS480
Phase	3 phase
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 88.0 A 104 °F (40 °C))
Rated Current In Heavy Duty	75.0 A at 104 °F (40 °C) heavy duty
Torque Control	True
Ip Degree Of Protection	IP20
Motor Power Kw	22.0 kW 230 V in the motor supply line normal duty 18.5 kW 230 V in the motor supply line heavy duty 45.0 kW 400 V in the motor supply line normal duty 37.0 kW 400 V in the motor supply line heavy duty 45.0 kW 440 V in the motor supply line normal duty 37.0 kW 440 V in the motor supply line heavy duty 55.0 kW 500 V in the motor supply line heavy duty 55.0 kW 500 V in the motor supply line heavy duty 55.0 kW 525 V in the motor supply line heavy duty 55.0 kW 525 V in the motor supply line heavy duty 75.0 kW 660 V in the motor supply line heavy duty 75.0 kW 660 V in the motor supply line heavy duty 75.0 kW 690 V in the motor supply line heavy duty 75.0 kW 690 V in the motor supply line heavy duty 45.0 kW 230 V to the motor delta terminals normal duty 37.0 kW 230 V to the motor delta terminals heavy duty 75.0 kW 400 V to the motor delta terminals normal duty
Maximum Horse Power Rating	25.0 hp 208 V normal duty 20.0 hp 208 V heavy duty 30.0 hp 230 V normal duty 25.0 hp 230 V heavy duty 60.0 hp 460 V normal duty 50.0 hp 460 V heavy duty 75.0 hp 575 V normal duty 60.0 hp 575 V heavy duty

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Option Card	Communication module Profibus DP V1
	Communication module PROFINET
	Communication module Modbus TCP/EtherNet/IP
	Communication module CANopen daisy chain
	Communication module CANopen Sub-D
	Communication module 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	0.09 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 %
[In] Rated Current Pwr Loss Specifctn	88.0 A
Power Loss Static Current Independent	25.0 W
Power Loss Per Device Current Dependent	270.0 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 IEC 61131-2
input compatibility	RUN discrete input level 1 PLC IEC 61131-2
	DI3 discrete input level 1 PLC IEC 61131-2
	DI4 discrete input level 1 PLC IEC 61131-2
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Discrete Input Logic	Programmable digital input < 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 12 V DC relay outputs
Maximum Switching Current	Relay outputs 2 A 250 V AC Relay outputs 2 A 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 IEC 65A-68
Analogue Input Number	1
Analogue Input Type	AI1/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 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 Modbus serial
Number Of Addresses	0227 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	11.42 in (290.0 mm)
Width	7.48 in (190.0 mm)
Depth	9.72 in (247.0 mm)
Net Weight	18.30 lb(US) (8.3 kg)

Environment

Electromagnetic Compatibility	Conducted and radiated emissions level A IEC 60947-4-2 Conducted and radiated emissions with bypass level B IEC 60947-4-2 Damped oscillating waves level 3 IEC 61000-4-12 Electrostatic discharge level 3 IEC 61000-4-11 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
Pollution Degree	Level 3
[Uimp] Rated Impulse Withstand Voltage	6 kV
[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 IEC 60068-2-3
Ambient Air Temperature For Operation	104140 °F (4060 °C) with current derating of 2 % per °C) 5104 °F (-1540 °C) without derating)
Ambient Air Temperature For Storage	-13158 °F (-2570 °C)
Operating Altitude	<= 3280.84 ft (1000 m) without derating > 3280.8413123.36 ft (> 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

Ordering and shipping details

Category	22588-OPEN ATS480 ALTISTART
Discount Schedule	CP1G
Gtin	3606481089069
Returnability	Yes

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	14.57 in (37.000 cm)
Package 1 Width	12.20 in (31.000 cm)
Package 1 Length	15.35 in (39.000 cm)
Package 1 Weight	21.57 lb(US) (9.785 kg)
Unit Type Of Package 2	P06
Number Of Units In Package 2	8

Package 2 Height	33.86 in (86.000 cm)
Package 2 Width	23.62 in (60.000 cm)
Package 2 Length	31.50 in (80.000 cm)
Package 2 Weight	190.70 lb(US) (86.500 kg)

Sustainability Green Premium™

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



Mercury Free



Rohs Exemption Information

Yes

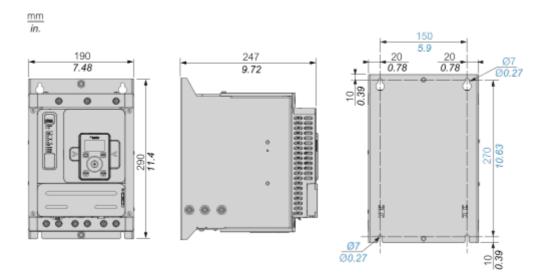
Certifications & Standards

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 collection and never end up in rubbish bins. Circularity Profile End of Life Information WARNING: This product can expose you to chemicals including: Life Information Proposition 65	
Environmental Disclosure Product Environmental Profile The product must be disposed on European Union markets following collection and never end up in rubbish bins. Circularity Profile End of Life Information	
Weee The product Environmental Profile The product must be disposed on European Union markets following collection and never end up in rubbish bins. Circularity Profile End of Life Information	
collection and never end up in rubbish bins. Circularity Profile End of Life Information	
	wing specific waste
California Proposition 65 WARNING: This product can expose you to chemicals including: L	
compounds, which is known to the State of California to cause can defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov	

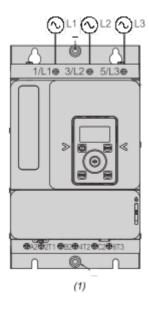
Dimensions Drawings

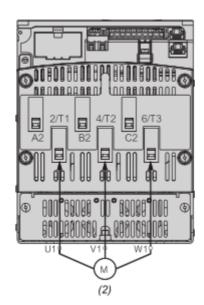
Dimensions

Front, Side and Rear View



Power Connections

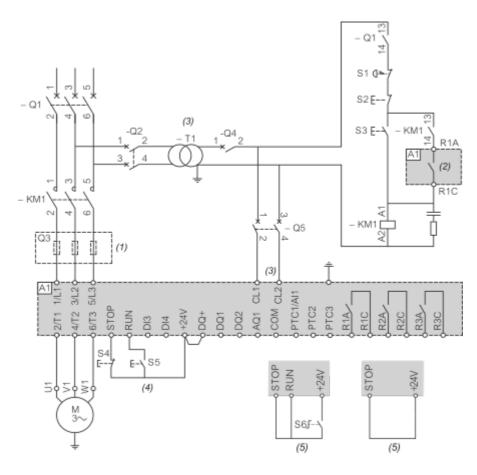




(1): Mains side(2): Motor side

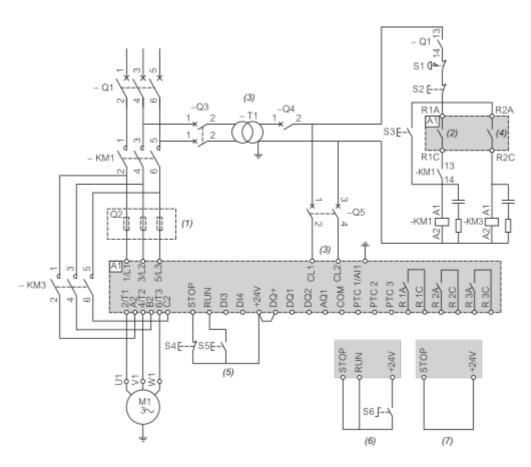
1/L1, 3/L2, 5/L3: Mains supply inputs 2/T1, 4/T2, 6/T3: Outputs to motor A2, B2, C2: Soft starter bypass

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



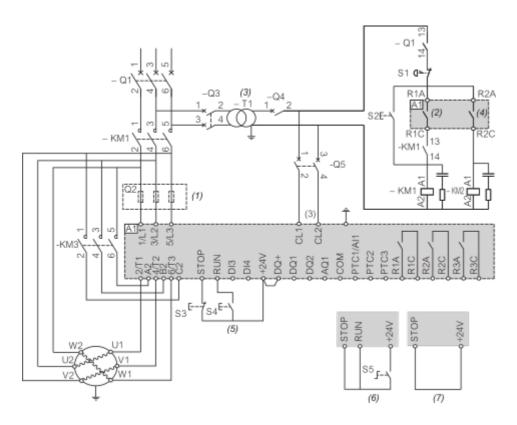
- (1): Installation of additional fast-acting fuses to upgrade to type 2 coordination according to IEC 60947–4–2.
- (2): Take into account the electrical characteristics of the relays (Control Terminal Characteristics).
- (3) : The transformer must supply 110...230 VAC +10% 15%, 50/60Hz.
- (4): RUN and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

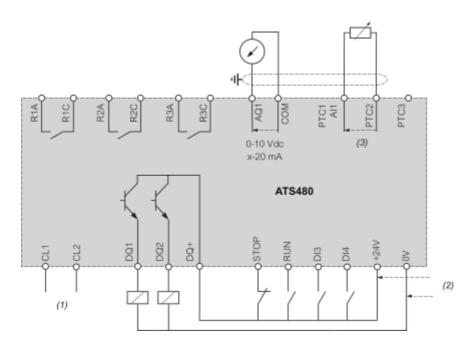
Connection inside the delta, with line and bypass contactor, type 1 and 2 coordination, non reversing, 2 wire or 3 wire



- (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

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Control block wiring diagram



(1): Control power supply 110-230 VAC

(2) : External supply 24 VDC(3) : 2 Wires PTC/PT100

R1A, R1C, R3A, R3C : Sequence relay

R2A, R2C : End of start

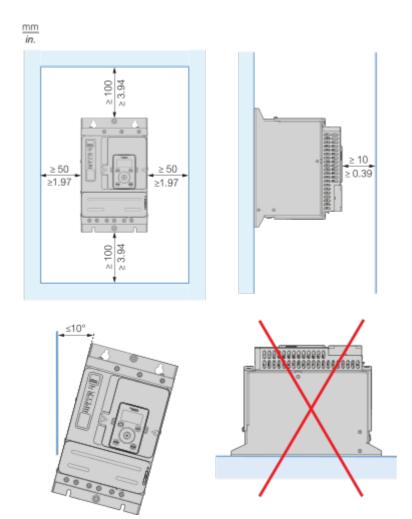
STOP, RUN, DI3, DI4 : Digital inputs

AQ1 : Analogue output

PTC1/AI1, PTC2, PTC3: PTC or PT100 connection

DQ1, DQ2, DQ+ : Digital outputs

Mounting Position



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