

Gaminio duomenų lentelė

Specifikacijos



Altivar Soft Starter ATS480, 88 A, 208...690V AC, control supply 110...230V AC

ATS480D88Y

Main

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
Network number of phases	3 phases
Utilisation category	AC-3A AC-53A
Ue power supply voltage	208...690 V - 15...10 %
Power supply frequency	50...60 Hz - 20...20 %
[Ie] rated operational current	Normal duty 88,0 A 40 °C)
Rated current in heavy duty	75,0 A at 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 normal duty 45,0 kW 500 V in the motor supply line heavy duty 55,0 kW 525 V in the motor supply line normal duty 45,0 kW 525 V in the motor supply line heavy duty 75,0 kW 660 V in the motor supply line normal duty 55,0 kW 660 V in the motor supply line heavy duty 75,0 kW 690 V in the motor supply line normal duty 55,0 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 55,0 kW 400 V to the motor delta terminals heavy duty
Motor power hp	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
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

Complementary

Device connection	In the motor supply line To the motor delta terminals
[Us] control circuit voltage	110...230 V AC 50/60 Hz - 15...10 %
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 Ie maximum)	150...700 %
Rated current pwr loss specification	88,0 A
Power loss static current independent	25,0 W
Power loss per device current dependent	270,0 W
Standards	EN/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 EN/IEC 61131-2 RUN discrete input level 1 PLC EN/IEC 61131-2 DI3 discrete input level 1 PLC EN/IEC 61131-2 DI4 discrete input level 1 PLC EN/IEC 61131-2
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	10 mA 24 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 0...20 mA or 0...10 V 500 Ohm
Communication port protocol	Modbus serial
Connector type	1 RJ45
Communication data link	Serial
Physical interface	2-wire RS 485
Transmission rate	1200...256000 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	0...227 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	290,0 mm
Width	190,0 mm
Depth	247,0 mm
Net weight	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	0...95 % without condensation or dripping water EN/IEC 60068-2-3

Ambient air temperature for operation	40...60 °C with current derating of 2 % per °C) –15...40 °C without derating)
Ambient air temperature for storage	–25...70 °C
Operating altitude	<= 1000 m without derating > 1000...4000 m with current derating 1 % per 100 m
Maximum deflection under vibratory load (during operation)	1.5 mm at 2...13 Hz
Maximum deflection under vibratory load (during storage)	1.75 mm at 2...9 Hz
Maximum deflection under vibratory load (during transport)	1.75 mm at 2...9 Hz
Maximum acceleration under vibrational stress (during operation)	10 m/s² at 13...200 Hz
Maximum acceleration under vibratory load (during storage)	15 m/s² at 200...500 Hz 10 m/s² at 9...200 Hz
Maximum acceleration under vibratory load (during transport)	15 m/s² at 200...500 Hz 10 m/s² at 9...200 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

Pakavimo vienetai

Pirmos pakuotės vieneto tipas	PCE
Vienetų skaičius 1 pakuotėje	1
1-os pakuotės aukštis	37,000 cm
1-os pakuotės plotis	31,000 cm
1-os pakuotės ilgis	39,000 cm
1-os pakuotės svoris	9,785 kg
Antros pakuotės vieneto tipas	P06
Vienetų skaičius 2 pakuotėje	8
2-os pakuotės aukštis	86,000 cm
Package 2 Width	60,000 cm
2-os pakuotės ilgis	80,000 cm
2-os pakuotės svoris	86,500 kg

Offer Sustainability

Tvaraus pasiūlymo statusas	„Green Premium“ gaminys
REACH direktyva	REACH deklaracija
ES RoHS direktyva	Aktyvus laikymasis (gaminys nepatenka į ES RoHS teisinę aprėptį) ES RoHS deklaracija
Be gyvsidabrio	Taip
Kinijos RoHS direktyva	Kinijos RoHS deklaracija
RoHS išimčių informacija	Taip

Aplinkosauginės informacijos atskleidimas	Produkto aplinkosaugos profilis
Žiedinės ekonomikos profilis	Eksploatavimo ciklo pabaigos informacija
WEEE	Šį produktą Europos Sąjungos rinkose reikia utilizuoti perduodant į specialias surinkimo vietas ir negalima išmesti su buitinėmis atliekomis.
Atnaujinamumas	Yra atnaujintų komponentų

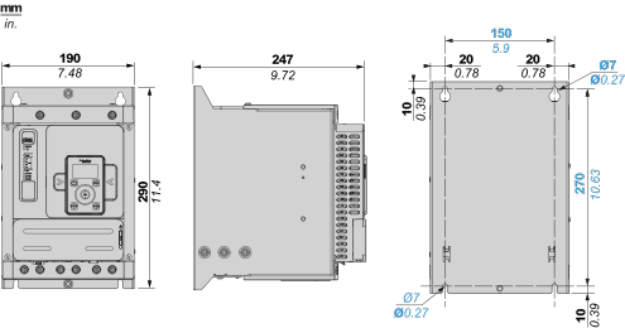
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Dimensions Drawings

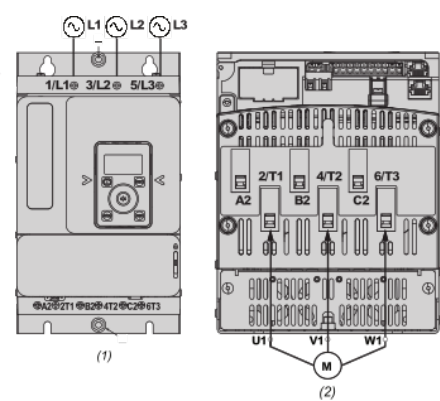
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Dimensions

Front, Side and Rear View



Power Connections



- (1) : Mains side

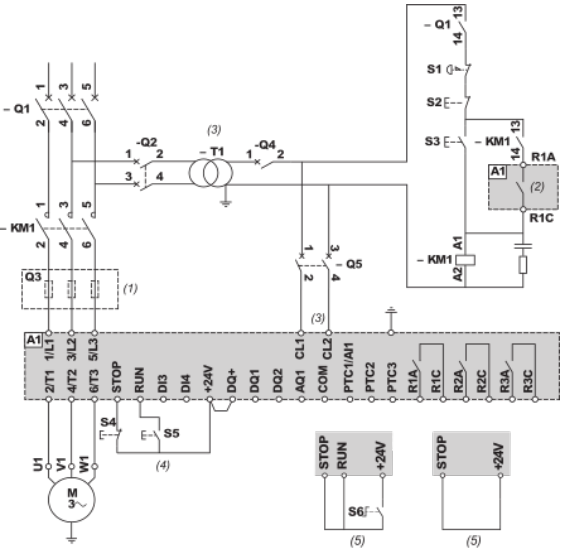
(2) : Motor side
- 1/L1, 3/L2, 5/L3 : Mains supply inputs
- 2/T1, 4/T2, 6/T3 : Outputs to motor
- A2, B2, C2 : Soft starter bypass

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Connections and Schema

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



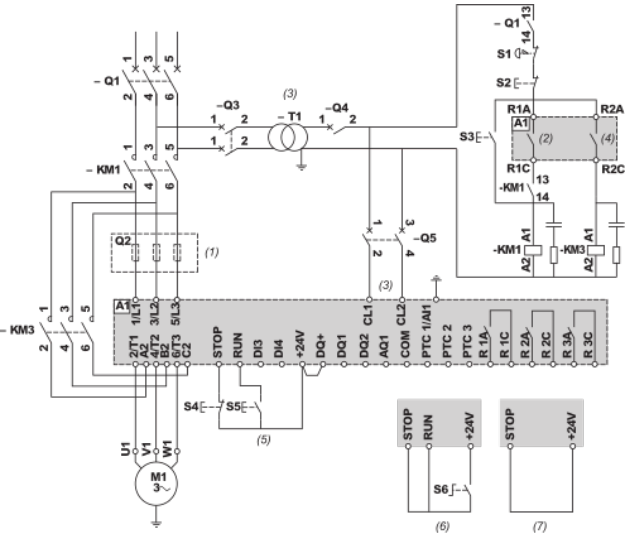
- (1) : Installation of additional fast-acting fuses to upgrade to type 2 coordination according to IEC 60947–4–2.
- (2) : Take into account the electrical characteristics of the relays (Control Terminal Characteristics).
- (3) : The transformer must supply 110...230 VAC +10% — 15%, 50/60Hz.
- (4) :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

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Connections and Schema

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



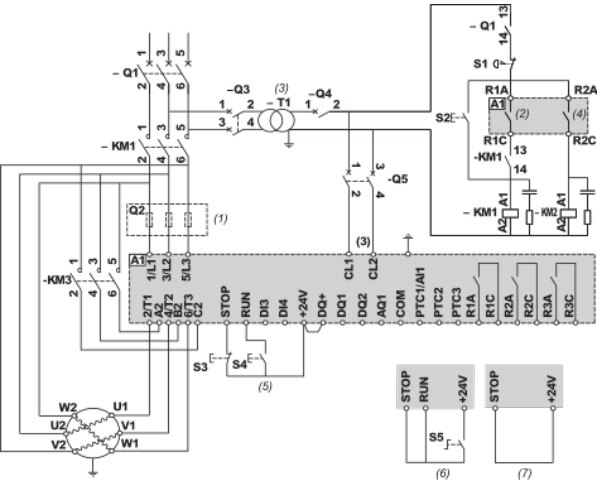
- (1) : Installation of additional fast-acting fuses to upgrade to type 2 coordination according to IEC 60947-4-2.
- (2) : Take into account the electrical characteristics of the relays (Control Terminal Characteristics).
- (3) : The transformer must supply 110...230 VAC +10% – 15%, 50/60Hz.
- (4) :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

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Connections and Schema

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



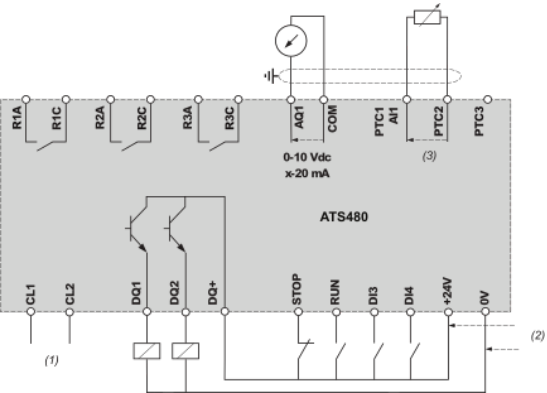
- (1) : Installation of additional fast-acting fuses to upgrade to type 2 coordination according to IEC 60947–4–2.
- (2) : Take into account the electrical characteristics of the relays (Control Terminal Characteristics).
- (3) : The transformer must supply 110...230 VAC +10% – 15%, 50/60Hz.
- (4) :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

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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

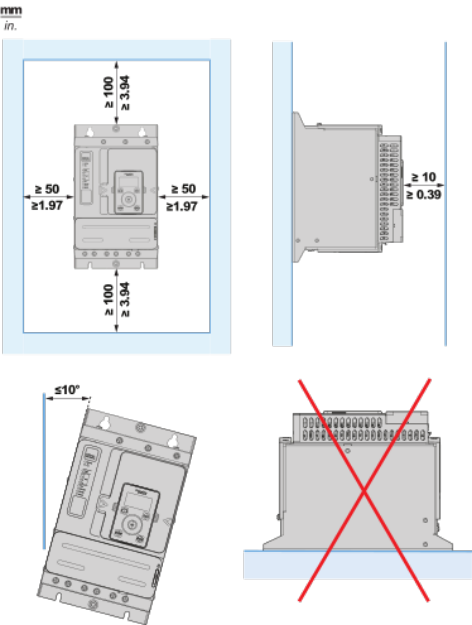
STOP, RUN, DI3, DI4 : Digital inputs

AQ1 : Analogue output

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

DQ1, DQ2, DQ+ : Digital outputs

Mounting Position



Rekomenduojamas (-i) pakeitimas (-ai)