



At the end of this document you will find links to products related to this catalog. You can go directly to our shop by clicking HERE. HERE



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ADXC

- · Two phase control
- IEC rated starter current le 12...45A
- IEC rated motor power 5.5...22kW at 400VAC and 9...37kW at 600VAC
- UL/CSA ratings 3 to 25HP at 400VAC and 10 to 40HP at 600VAC
- Built-in bypass relay
- Total protection against over temperature and wrong phase sequence
- Initial voltage, ramp up and ramp down time adjustable on front
- · LED indication for starter status
- DIN rail mount and only 45mm wide.



Page 5-5

ADXL...

- · Two phase control
- Reduced voltage starter with torque control and built-in bypass relay
- For standard and severe duty
- Rated operational voltage 208...600VAC
- IEC rated starter current le 30....320A
- IEC rated motor power 15...160kW (400VAC); 18.5...200kW (500VAC)
- UL/CSA rated motor power 15...200HP (380-415VAC); 25...300HP (550-600VAC)
- Maximum starting current limitation
- PC remote control
- Programming, data download and diagnostics via optical port
- Parameter programming via NFC
- Modbus-ASCII, Modbus-RTU and Modbus-TCP communication protocols
- · Backlit LCD display.



Page 5-6

ADX...

- · Three phase control
- Reduced voltage starter with torque control and built-in bypass contactor up to 245A
- For severe duty, IEC starting current 5•le
- Rated operational voltage 208...500VAC (ADX...B) 208...415VAC (ADX...)
- IEC rated starter current le 17...1200A
- IEC rated motor power 7.5...710kW (400VAC)
- Maximum starting current limitation
- PC remote control supervision
- Modbus-RTU and property ASCII communication protocols
- · Backlit LCD display.

Guide for selecting the best device

	ADXC	ADXL	ADX
Controlled phases	2	2	3
Built-in bypass	•	•	(up to 245A)
Built-in display and keypad		•	•
Languages		6	4
View measurements		•	•
Torque control		•	•
Adjustable current limit		•	•
Dynamic braking			•
Kick Start function		•	•
Motor overload electronic protection		•	•
Motor protection PTC input		•	•
Protection against phase reversal	•	•	•
Protection against phase inversion	•	•	•
Protection against locked rotor		•	•
Protection against thyristor overtemperature	•	•	•
Protection against low load		•	•
Programmable alarm functions		•	•
Programmable digital inputs		•	•
Programmable analog inputs		0	•
Programmable digital outputs		•	•
Programmable analog output		0	•
Monitoring communication via RS485		0	•
Programming communication		•	•
Event log		•	•
Motor hour counter		•	•
Startup counter		•	•
Clock calendar			•
Remotable external keypad		0	0

- Standard
- O Optional
- Not available

MOTOR CONTROL AND PROTECTION



- 12A to 1200A soft starter ratings
- Standard and severe duty types
- Internal bypass contactor up to 320A rating
- Startup with torque control, voltage ramp or current limit
- Integrated total motor protection
- Clock calendar
- Digital control and adjustment
- RS232 and RS485 for monitoring and remote control
- Modbus-RTU and proprietary ASCII communication protocols.

Soft starters	S EC	-	-	PAGE
Type ADXC 2 phase control	. !	5	_	4
Type ADXI 2 phase control		5	_	5
Type ADX 3 phase control	. !	5	-	6
Accessories	. :	5	-	7
Software	. ;	5	-	8
Dimensions		_		10
Dimensions				
Wiring diagrams	. (5	- 1	12
Technnical characteristics	. !	5	- 1	13





ADXL SERIES SIMPLE, EFFICIENT AND SAFE MOTOR CONTROL





SIMPLE

The new ADXL soft starter series is equipped with a backlit LCD display with icons and NFC connectivity, for a simple configuration, possible also via smartphones and tablets. They are ideal for simple "plug and play" applications, thanks to the installation AUTO SET wizard, and for high-performance applications, with control and protection during the motor startup and operation.

FFICIENCY

After the start-up is completed, the soft starter closes the internal bypass contacts and reduces energy consumption.

SAFFTY

ADXL built-in functions allow to protect the connected motor and the starter; it's capable of monitoring the motor thermal status, to manage the thermal protection, and its internal temperature, in order to protect the SCR from overtemperature. Furthermore, a motor overtemperature protection can be enabled through an external PTC temperature sensor.

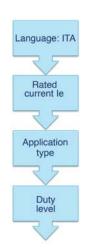
AUTO SET

Upon startup, the soft starter launches a user wizard to simplify the setup. The user can set the device through 4 simple parameters:

- language: it is possible to choose the text view by selecting the preferred language. The available languages are: English, Italian, French, Spanish, Portuguese, German;
- motor current size: the motor nominal current (can be set between 50 and 100% of the starter size);
- application type: it includes predefined setups for the most common applications: centrifugal pump, fire pump, conveyor belt, fan, mixer and general purpose. By selecting one type, the soft starter automatically updates the parameter programming to adapt to the requested application.
- soft starter duty level: the same application, based on the load connected to the
 motor, can be more or less heavy-duty. ADXL is capable of automatically
 adapting to standard or heavy-duty startups by adjusting the related parameters
 based on the user selection.

Expert users can customize the settings through the complete parameter menu.

ADXL: from start-up to operation in 4 steps



EASY SETUP

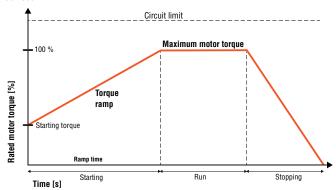
The ADXL series soft starters are equipped with NFC technology to simplify the parameter setting procedure. Using a compatible smartphone or tablet, the user, even with the soft starter turned off, can download, save and edit the parameter menu using the LOVATO NFC configurator app. The device front includes an optical port compatible with the CX01 dongles, to connect via USB it to the PC through the Xpress software, and the CX02 dongles, for Wi-Fi connection to the PC or the Sam1 app.



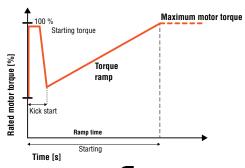


TORQUE CONTROL

The new two-phase control range includes the torque control. This motor starter solution allows to perform gradual accelerations and decelerations, with consequent significant reduction of mechanical faults and wear of the transmission devices.



This function allows to start the motor when the initial torque is not sufficient to overcome friction forces; it transmits a high torque during the very first moments of the startup.



FIRE PUMP PRESET SETUP

While choosing the application in the AUTO SET wizard, it's possible to select the fire pump function. This parameter setting is optimized to start fire pumps overriding all alarms and protections. In this situation, the main priority is the pump start-up, without considering the possible consequences for the pump starter and motor.

INPUTS, OUTPUTS, LIMITS AND REMOTE VARIABLES

The input and output functions are preset with the most common settings; the user can easily edit the preset configuration to adapt the soft starter to the application needs. All inputs and outputs can be edited. There are three types of programmable internal variables:

- limit thresholds;
- remote variables;
- user alarms.

MAINTENANCE COUNTERS

ADXLs have two counters dedicated to count the number of start-ups and the motor operation hours. It is possible to set a threshold for the operation hours; when this threshold is exceeded, a dedicated alarm is triggered.

COOLING FAN

The fan is supplied as an accessory for sizes from 30 to 115A, while it is built-in for all larger sizes. In order to increase its life span, the fan is activated only when necessary. Furthermore, the ADXL is capable of checking the fan conditions; any blocks or faults are signalled through two specific alarms.

DIN MOUNT GUIDE

For sizes from 30 to 115A, the EXP8003 accessory is available to mount the soft starter on a 35mm DIN rail.

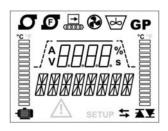


USER INTERFACE

A backlit icon display shows the data to the user in a clear and immediate way.

- Alarm texts available in 6 languages (ENG-ITA-FR-ES-POR-DE)
- belt, fan, mixer and general purpose;
 Two graphic bars show the motor and thyristors temperature;
 Two alphanumeric displays allow to view texts and measures;

- A status bar shows the starter, start, bypass, stop status.



PASSWORD

Access to the soft starter parameters can be protected by user customizable passwords. There are two access levels, user and advanced. Furthermore, it's possible to block the serial communication using the remote control password.

RS485 COMMUNICATION AND REMOTE KEYPAD

All ADXL series soft starters are equipped with a slot to house the EXC1042 MiniCard, an expansion dedicated to the RS485 communication. RS485 communication can be used to connect the EXCRDU1 remote keypad, to view the measures or to perform the setup through the touch screen installed on the front panel



MONITORING AND REMOTE CONTROL

Through the optional EXC1042 communication module and compatibility with the supervision and energy management software Synergy, setup and remote control software Xpress , it's possible to constantly monitor all the measures available on the Modbus, the soft starter status and edit the setup parameters.



5

ADXC type



ADXC 012... ADXC 032...



ADXC 037... ADXC 045...

Current control

ADXC... gradually increases the current limit at 75% ramp-up time if the motor speed has yet to reach rated value, to avoid locked rotor state before time elapsing.

Typical settings

The following settings are standard ones for the different applications; they are for indication and reference purposes only.

After the installation, it is recommended to always parameterise the soft starter with the motor connected to find the best settings and then test it. Initial voltage adjustment is the first operation followed by the ramp-up time setting and the ramp-down time is last, if any is required.

ADXC... adjustments



IEC rated starter current le	power		Qty per pkg	Wt
[A]	[kW]	[HP]	n°	[kg]

With built-in bypass relay. Three-phase 400VAC motor control. Auxiliary supply: starter 110...400VAC (L1-L2-L3 inputs); start command 110...400VAC (A1-A2 terminals).

ADXC 012 400	12	5.5	5	1	0.500
ADXC 016 400	16	7.5	7.5	1	0.500
ADXC 025 400	25	11	10	1	0.500
ADXC 032 400	32	15	15	1	0.500
ADXC 037 400	37	18.5	20	1	0.700
ADXC 045 400	45	22	25	1	0.700

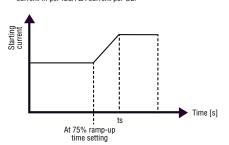
With built-in bypass relay. Three-phase 400VAC motor control. Auxiliary supply: starter 110...400VAC (L1-L2-L3 inputs); start command 24VAC/DC (A1-A2 terminals)

ADXC 012 400 24	12	5.5	5	1	0.500
ADXC 016 400 24	16	7.5	7.5	1	0.500
ADXC 025 400 24	25	11	10	1	0.500
ADXC 032 400 24	32	15	15	1	0.500
ADXC 037 400 24	37	18.5	20	1	0.700
ADXC 045 400 24	45	22	25	1	0.700

With built-in bypass relay. Three-phase 600VAC motor control. Auxiliary supply: starter 100...240VAC (A1-A2 separate 1-phase); start command 100...240VAC (ST terminals). With 2 relay outputs.

ADXC 012 600 R2	12	9	10	1	0.500
ADXC 016 600 R2	16	11	15	1	0.500
ADXC 025 600 R2	25	20	20	1	0.500
ADXC 032 600 R2	32	22	30	1	0.500
ADXC 037 600 R2	37	30	30	1	0.700
ADXC 045 600 R2	45	37	40	1	0.700

• For operating temperature higher than 40°C, derate starter power; see values given in the technical characteristics on page 5-13, in Rated current In per IEC/FLA current per UL.



Type of application	Initial voltage	Accel. time	Decel. time
	[%]	[s]	[s]
Hydraulic lift	40	2	0
Piston compressor	40	3	0
Screw compressor	50	10	0
Scroll compressor (with revolving spiral)	40	1	0
Low inertia fan	40	10	0
High inertia fan	40	15-20	0
Pump	40	10	10
Centrifugal blower	40	5	0
Conveyor	50	1	5

- (A) Initial voltage: 0-85% of the motor control power.
- B Ramp up time: 1-20 seconds. Initial to maximum load voltage time.
- (C) Ramp down time: 0-20 seconds. Maximum to no load voltage time.

General characteristics

ADXC... is a compact type of soft starter, 45mm wide and easy to use, for three phase squirrel-cage induction motors; soft starts and soft stops rated motor load currents up to 45A.

It is based on a current limiting starting methodology to limit the maximum starting current. ADXC... reduces the mechanical stress on motor shafts, gearboxes and drive

Ramp up, ramp down and initial voltage time settings can be independently adjusted by built-in potentiometers. Main features are:

- For three phase induction motors up to 22kW / 25HP at 400VAC and 37kW / 40HP at 600VAC
- Maximum input voltage: 400VAC 50/60Hz for ADX... 400...; 600VAC 50/60Hz for ADXC...600...
- Built-in bypass relay
- Wrong phase sequence and over temperature
- . Alarm for wrong phase sequence; line voltage and/or frequency out of limits (over and undervoltage); overcurrent, over temperature, irregular ramp up and current flow during bypass; motor voltage unbalance
- Simple setup and installation
- 2 relay outputs for alarms (NC) and bypass closing (NO) for ADXC...600 R2
- 35mm DIN rail mounting (IEC/EN 60715)
- Ideal for hydraulic lifts, conveyor belts, compressors, pumps, hoisting devices, blowers, fans, mixers.

Operational characteristics

- Two phase control
- Input voltage L1-L2-L3:
- 220...400VAC -15%...+10% for ADXC...400 and ADXC...400 24
- 220...600VAC -15%...+10% for ADXC...600 R2
- Frequency range: 50/60Hz ±10% self-configurable Self powered for ADXC...400... types
- Separate single phase auxiliary power supply A1-A2: 100...240VAC -15%...+10% for ADXC...600 R2
- Start command:
- A1-A2 24VAC/DC -15%...+10% (ADXC...400 24) A1-A2 110...400VAC -15%...+10% (ADXC...400) ST 100...240VAC -15%...+10% (ADXC...600 R2)
- Ramp up time: 1-20 seconds
- Ramp down time: 0-20 seconds
- Initial voltage: 0-85%
- 3 indication LEDs "alarm" (red alarm conditions with diverse number of flashes), "ramp/bypass" (yellow – flashing in ramp phase / constantly on with bypass relay connected) and "supply" (green - constantly on with power supply flow)
- Degree of protection: IEC IP20

Certifications and compliance

Certifications obtained: UL Listed for USA and Canada (cULus - File E223223) under Solid State Motor Controllers as reduced voltage starters; EAC and CCC pending completion at time of catalogue printing. Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-4-2, UL 508, CSA C22.2 n°14.

ADXL... types







ADXL 0030 600...ADXL 0060 600

A
4 4 4
• • • •
1
- 808 - 808
2
2 *****

ADXL 0075 600...ADXL 0115 600



ADXL 0135 600...ADXL 0162 600

Order code	rated starter current le	Rated m power ≤40°C IEC (400		Qty per pkg	Wt
	[A]	[kW @]	[HP]	n°	[kg]

For standard and heavy-duty applications. With built-in bypass relay. Auxiliary supply: 100...240VAC.

Rated operational voltage 208...600VAC

riated operational ve	mage 200.	000 1710	,		
ADXL 0030 600	30	15	20	1	2.100
ADXL 0045 600	45	22	30	1	2.100
ADXL 0060 600	60	30	40	1	2.100
ADXL 0075 600	75	37	50	1	2.900
ADXL 0085 600	85	45	60	1	2.900
ADXL 0115 600	115	55	75	1	2.900
ADXL 0135 600	135	75	100	1	0
ADXL 0162 600	162	90	125	1	0
ADXL 0195 600	195	110	150	1	0
ADXL 0250 600	250	132	200	1	0
ADXL 0320 600	320	160	250	1	0
	•				

O Contact our Customer Service office; see contact details or inside front

IEC ratings ≤40°C (50Hz)

Order code	Starter current le	Motor power ② 230V 400V		500V
	[A]	[kW]	[kW]	[kW]
ADXL 0030 600	30	7.5	15	18.5
ADXL 0045 600	45	11	22	30
ADXL 0060 600	60	15	30	37
ADXL 0075 600	75	22	37	45
ADXL 0085 600	85	22	45	55
ADXL 0115 600	115	37	55	75
ADXL 0135 600	135	37	75	90
ADXL 0162 600	162	45	90	110
ADXL 0195 600	195	55	110	132
ADXL 0250 600	250	75	132	160
ADXL 0320 600	320	90	160	200

IEC ratings ≤40°C (60Hz)

Order code Starte		Moto	Motor power 8					
	current FLA	208V	220- 240V		440- 480V	550- 600V		
	[A]	[HP]	[HP]	[HP]	[HP]	[HP]		
ADXL 0030 600	28	10	10	15	20	25		
ADXL 0045 600	44	10	15	25	30	40		
ADXL 0060 600	60	20	20	30	40	50		
ADXL 0075 600	75	25	25	40	50	60		
ADXL 0085 600	83	25	30	50	60	75		
ADXL 0115 600	114	40	40	60	75	100		
ADXL 0135 600	130	40	50	75	100	125		
ADXL 0162 600	156	50	60	75	125	150		
ADXL 0195 600	192	60	60	100	150	200		
ADXL 0250 600	248	75	100	150	200	250		
ADXL 0320 600	320	100	125	200	250	300		

Preferred rated values according to IEC 60072-1 (primary series).
 Horsepower and currents values according to UL 508 (60Hz).

General characteristics

The new series of ADXL soft starters allow control the start and stop of three-phase asynchronous motors on two-phases with built-in bypass. ADXLs are equipped with a backlit display with icons and NFC technology, for a simple configuration, possible also from smartphones and tablets. ADXLs are ideal for simple "plug and play" applications, thanks to the installation wizard, and for high-performance applications, with control and protection during the motor start-up and operation. The ADXLs include protection features for the starter and motor, and it's possible to enable specific alarms to signal maintenance needs, such as the number of startups performed or the operation hours of the motor.

It has the following main features: - Backlit LCD display

- Texts available in 6 languages (ENG-ITA-FR-ES-POR-DE) IEC rated starter current le from 30 to 320A
- IEC rated motor power 15...160kW (400VAC) and 18.5...200kW (500VAC)
- UL/CSA rated motor power 15...200HP (380-415VAC) and 25...300HP (550-600VAC)
- Voltage ramp startup
- Torque control
- Kick start
- Limited maximum starting current Free wheel or controlled stop
- Built-in bypass relay
- Optical port for programming data download and diagnostics through the software Xpress and app
- NFC technology for parameter programming through the app NFC Optional RS485 communication
- Modbus-ASCII, Modbus-RTU and Modbus-TCP communication protocols
- Supervision and energy management software Synergy

Operational characteristics

- Two phase control Input voltage: 208...600VAC ±10%
- Network frequency 50 or 60Hz ±10% self-configurable 100...240VAC auxiliary power supply
- Signalling LED: power supply startup or bypass phase,
- alarm
- Three programmable outputs: 1 changeover contact 2 normally open contacts
- 2 programmable digital inputs
- 1 programmable digital input, that can be used as PTC
- Protection rating: IP00.

Displayed measures:

Maximum current, L1 current, L2 current, L3 current, %-torque, average line voltage, total active power, total PF, motor thermal status, starter temperature.

Protections

- Motor: thermal protection, PTC protection, locked rotor, current asymmetry, startup too long, minimum
- Power supply: no power supply, phase loss, wrong phase sequence and out-of-range frequency
- Starter: overtemperature, overcurrent, SCR fault, bypass relay fault, temperature sensor fault and fan

Certifications and compliance

Certificates pending: cULus; EAC Compliant with standards: IEC/EN 60947-1 IEC/EN 60947-4-2, UL508, CSA C22.2 n° 14.

ADX type



51 ADX 0017B...51 ADX 0045B

1	
-	adx
	EXCELL TO THE REAL PROPERTY.
!!!	8.8.8
1111111	11 U.D.
ľ	

51 ADX 0060B...51 ADX 0085B



51 ADX 0110B...51 ADX 0125B

Order code	rated starter current le	IEC rated power ≤4 IEC 440V		Qty per pkg	Wt
	[A]	[kW]	[Hp]	n°	[kg]

For standard duty (starting current 5•le). With built-in bypass contactor.

Auxiliary supply: starter Us 208...240VAC; start command

51 ADX 0017B	17	7.5	10	1	7.900
51 ADX 0030B	30	15	20	1	8.000
51 ADX 0045B	45	22	30	1	8.300
51 ADX 0060B	60	30	40	1	14.900
51 ADX 0075B	75	37	50	1	14.900
51 ADX 0085B	85	45	60	1	14.900
51 ADX 0110B	110	55	75	1	15.700
51 ADX 0125B	125	55	100	1	15.700
51 ADX 0142B	142	75	100	1	34.000
51 ADX 0190B	190	90	150	1	37.000
51 ADX 0245B	245	132	200	1	37.000

For severe duty (starting current 5•le).

Predisposed for external bypass contactor.

Auxiliary supply: starter Us 208...240VAC; start command

		1			
51 ADX 0310	310	160	250	1	50.000
51 ADX 0365	365	200	300	1	50.000
51 ADX 0470	470	250	400	1	90.000
51 ADX 0568	568	315	450	1	90.000
51 ADX 0640	640	355	500	1	110.000
51 ADX 0820	820	400	600	1	170.000
51 ADX 1200	1200	710	900	1	185.000

General characteristics

ADX... is a three-phase control soft starter used to start and gradually stop three-phase asynchronous squirrel-cage motors. The startup can be performed through a voltage ramp with torque control and limitation of the maximum startup current.

The integrated bypass contactor (only for ADX...B types) drastically limits dissipation, as a result, equipment for electric panel cooling ventilation can be eliminated and the enclosure size can be reduced as well. It's equipped with RS232 and RS485 interfaces.

During starting: Torque control acceleration, current limit control and booster.

During stopping: Torque control deceleration, dynamic braking and free-wheel.

In emergency conditions: Starting without protection direct-on-line starting using integrated bypass contactor. Remote control: PC supervision by connection with RS232/RS485 converter, modem or GSM modem. Automatic call function (Autocall) in case of alarm conditions by sending a message to a cellular phone (SMS-Short Message Service) and/or to a mailbox. Proprietary ASCII and Modbus-RTU communication

KEYPAD OPERATIONS

- Backlit LCD 2-line 16-character display
- Multilanguage capability (Italian, English, French,
- Basic, advanced and function programming menus
- Keypad stop and start
- Motor and mains parameter readings:
 line voltage values (L-L)

 - phase current
 - active and apparent power values per phase
 - power factor per phase
 - kWh
- Time sequential events logClock calendar with backup battery.

PARTICULAR FUNCTIONS

Digital inputs and programmable relay outputs. Analog input (0...10V, 0...20mA or 4...20mA) for ramp acceleration and/or deceleration, motor start and stop control thresholds, programmable relay enable and disable control thresholds. Analog output

(0...10V, 0...20mA or 4...20mA) for current, torque, motor thermal status and power factor readings. Input programming for second motor.

PROTECTION

- Motor: Dual thermal protection class (one during starting phase and the other during running) or by PTC sensor, locked rotor, current asymmetry, minimum torque and starting time too long
- Auxiliary voltage: Voltage value too low Power voltage: Phase failure, phase sequence and frequency out of limits
- Control inputs and analog output: Static 24VDC short-circuit protection with automatic resetting.
- Starter: Overcurrent, high temperature, SCR and bypass contactor malfunction.

Operational characteristics

- Three phase control

- Rated starter current le:
 17A...245A (ADX...B)
 310A...1200A (ADX...)
 Motor current: 0.5...1 le
- Overload current:105% le for ADX...B115% le for ADX...

Certifications and compliance

Certifications obtained: EAC for all; CCC for ADX 0110B and ADX 0125B types only Compliant with standard: IEC/EN 60947-1, IEC/EN 60947-4-2.

- 1 208-600VAC ±10% on request.
- 2 Voltages on request: higher than 415V to 690V maximum.

Accessories for ADXL... types

Order

CX 01

CX 02

EXC RDU1

EXC 1042

EXC CON 01

EXC M3G 01

EXP80 03

EXP80 04

code

Description

USB connection donale

PC ↔ ADXL with optical

Wi-Fi connection dongle

firmware update

cloning

connector for programming, data download, diagnostics and

PC ↔ ADXL for data download,

programming, diagnostics and

Remote keypad, LCD display

with touchscreen, 128 x 112

RS485 communication board

RS485/Ethernet converter,

12...48VDC, including DIN

RS485 gateway/3G modem,

9.5...27VAC/9.5...35VDC,

for ADXL0030...ADXL0115

Fan for ADXL0030...ADXL0115

max. of two EXP80 04 fans)

(codes ADXL0075...ADXL0115

including antenna and

programming cable

DIN guide mount kit

mounting guide kit

pixel, IP65 protection, 3m cable



CX 01



CX 02



EXC RDU1





EXC 1042

EXP 8003

General characteristics

Communication devices to connect LOVATO Electric products to:

- Personal computer (PC)
- Smartphones
- Tablets.

CX 01

Wt

[kg]

0.090

0.090

0.360

0.010

0.400

0.340

0.145

0.030

Qtv

per

pkg

n°

This USB/optical dongle, complete with cable, allows the frontal connection of products compatible with PCs without having to disconnect the power supply from the electric panel

The PC identifies the connection as a standard USB.

Via Wi-Fi connection, compatible LOVATO Electric products can be viewed on PCs, smartphones and tablets with no need for cabling

For dimensions, wiring diagrams and technical characteristics, consult the manuals available online in the Download section of the following website: www.LovatoElectric.com

EXC RDU1

Through the EXC RDU1 remote keypad, it is possible to edit the ADXL programming, view the motor measures, operational data and alarms and turn off the alarms.

- 100...240VAC / 12...24VDC double power supply
- 128x112 pixel touchscreen LCD display
- Built-in buzzer
- Static output (SSR) to signal general alarms Opto-isolated RS485 communication port
- Conductor cross section: 0.2...2.5mm² (24...12 AWG; 18...12 AWG for UL/CSA)
- Tightening torque: 0.56Nm (4.5lbin) Compatible with ADXL...
- 3m cable.

Certifications and compliance

Pending certification: cULus. Reference standards: IEC/EN 61010-1:2001, IEC/EN 61000-6-2:2005, EN 61000-4-3:2006, EN 61000-6-3:2001, UL508, C22.2 n° 14-95.

ADX TAST remote keypad
The flush-mount ADX TAST remote keypad is identical to the one on board the soft starter except for the start and stop controls of the motor, which are permanently disabled. With this keypad, starter setup can be conducted, motor readings and operating data displayed and data and parameter transfer (ADX ↔ remote keypad) made as well.

A backup copy of the starter data and parameter setup is obtainable with the transfer functions.

It is supplied standard with a 3m long cable and suitable connectors to complete the link to the ADX RS485 port.

Advantages

- Flush mount
- Messages in selectable language Readings display
- Parameter setup
- Two-way data and parameter transfer.

Operational characteristics

- Auxiliary supply voltage: 208...240VAC ±10% Power consumption: 6.9VA
- Dissipation: 3.2W
- Mains frequency: 50/60Hz RS485 port: RJ4/4 connector
- Symply: Removable 3-pole 2.5 mm² terminal block. Display: 2 line, 16 character backlit LCD LED indication (3): POWER, RUN and FAULT Keys (6) ENTER/START, RESET/STOP,

 ←PREVIOUS, NEXT→, ▼ and ▲

- Ambient conditions
- Operating temperature: -10...+60°C
- Storage temperature: -20...+70°C
- Flush mount enclosure
- Degree of protection on front: IP41; IP54 with protective cover.

Certifications and compliance

Certifications obtained: EAC Compliant to standards: IEC/EN 61000-6-1 and IEC/EN 61000-6-3 for 4 PX1 types.

Remote keypad for ADX... types



51 ADX TAST

Accessories for ADX... types



51C4



4PX1

Order code	Description	Qty per pkg	Wt
		n°	[kg]
51 ADX TAST	Remote keypad 96x96mm, 2x16 backlit LCD, 208-240VAC supply c/w 3m/10ft long connecting cable	1	0.350
31 PA 96X96	Protective cover (IP54)	1	0.077
51 C2	PC ↔ ADX connecting cable, 1.8m/6ft long	1	0.090
51 C3	PC ↔ GSM modem connecting cable, 1.8m/6ft long•	1	0.210
51 C4	PC ↔ 4 PX1 converter drive connecting cable, 1.8m/6ft long	1	0.147
51 C5	ADX ↔ Analog modem connecting cable, 1.8m/6ft long•	1	0.111
51 C6	ADX ↔ 4 PX1 converter drive connecting cable, 1.8m/6ft long	1	0.102
51 C7	ADX ← GSM modem connecting cable, 1.8m/6ft long ●	1	0.101
51 C8	ADX ↔ remote keypad connecting cable, 3m/10ft long	1	0.080
4 PX1	RS232/RS485 converter drive, opto-isolated, 220240VAC (or 110120VAC)❷	1	0.600

- Consult Customer Service for modem details; see contact details on
- inside front cover.
- RS232/RS485 opto-isolated converter drive, 38,400 Baud-rate maximum, automatic or manual TRANSMIT line supervision, 220...240VAC ±10% supply (110...120VAC available on request).

For ADXL...

Xpress configuration and remote control software



Synergy supervision and energy management software



Säm1 APP







NFC APP



General characteristics

By using the press software, the quick setup of the soft starter can be carried out via PC, avoiding possible parameter programming errors.

The parameter programming of ADXL... soft starters can also be PC saved and quickly uploaded into another device requiring the same programming. It allows the following operations:

- Graphical and numerical display of measurements
- Soft starter status
- Access all setup parameters
- Saving / loading parameters
- Highlighting of changed values
- Resetting to default values.

Synergy software allows to remotely control and monitor the soft starters. The software structure and applications are based on MS SQL relational databases and the data can be consulted via the most common browsers. It is an extremely versatile system that can be accessed via intranet network, VPN or internet by several users/units at the same time

For details, consult section 27 or our Customer Service office; see contact details on inside front cover.

Sami APP for smartphones and tablets

The application Sam1 allows the user to set the soft starter, view the alarms, send commands, read the measures, download the events and submit the data collected via e-mail. The connection is made by Wi-Fi with a smartphone or tablet using the CX 02 device. It is iOS and Android compatible.

For details, consult section 27 or our Customer Service office; see contact details on inside front cover.

NFC APP for smartphones and tablets

The ADXL soft starters are equipped with built-in NFC technology. Using the LOVATO application NFC it is possible to program the parameters and save them on smartphones and tablets. Available only for Android

For details, consult section 27 or our Customer Service office; see contact details on inside front cover.

For ADX...



51 ADX SW

Order code	Description	Qty per pkg	Wt
		n°	[kg]
51 ADX SW	PC-ADX remote control software with proprietary ASCII and Modbus-RTU protocols and a set of connecting cables 51 C2, 51 C3, 51 C5, 51 C7 for communications via RS232 port, analog or GSM modem	1	0.550

The remote control software consents to the PC supervision of all ADX soft starter functions, including: parameter setup, real-time readout display, graphics of monitored parameter data during operation and starter events log display, each with time and date entry.

The PC-ADX connection is made by cable via the RS232 port, RS232/RS485 converter, analog or GSM modem.
The RS232 port is not suitable for permanent connections.

The connection via modem permits the ADX starter to advise alarm conditions, that is an automatic link to the remote PC. GSM modem represents the ultimate solution for unmanned applications or where there are no telephone lines. Interesting communication features are available with this type of modem, such as:

- SMS (Short Message Service): At alarm conditions, the ADX can send its ID and alarm code, with time and date entry. The advantage is the possibility of reaching service people, without delay, wherever they are located.
- Email (via Internet): a message with the same structure as mentioned above can be transmitted to a specified mailbox. The advantages of this type of message with respect to the SMS are that any communication, received through Internet mail server, is permanent and a vast number of these can be received and reviewed at any

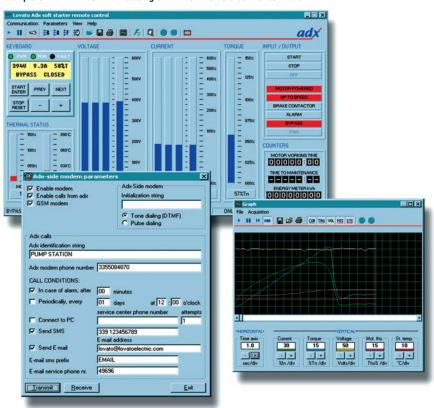
General characteristics

- Display of all the monitored data by the ADX starter
- Virtual ADX keypad with access to all functions Parameter adjustment, only accessible with password, saving on disc and subsequent reloading on ADX starter
- Display of starter events log showing time and date entry
- Graphic display of monitored data during operation
- Connection through RS232/RS485 converter or modem
- GSM-modem management with SMS or e-mail transmission
 - AUTOCALL function for automatic PC call
- Program configuration in 4 languages (Italian, English, Spanish and French)
- Easy installation and setup.

Advantages

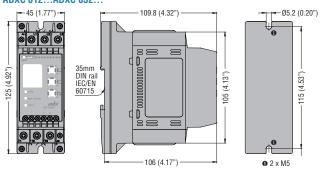
- GSM network management for inaccessible applications where there are no telephone lines
- Call management during alarm conditions for SMS or email transmission
- No limit for remote control distance
- Possibility of remote motor starting
- Reduction of service time
- Reduction of maintenance and downtime.

Example of main window frame using 51 ADX SW remote control software

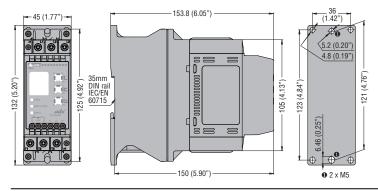


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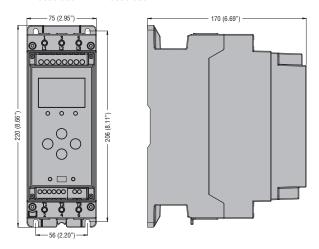
SOFT STARTER ADXC 012...ADXC 032...



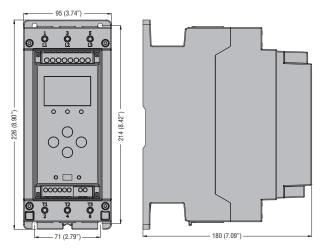
ADXC 037...ADXC 045...



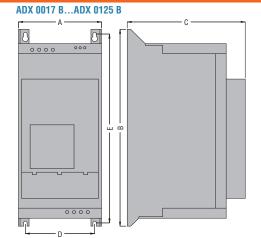
ADXL 0030 600...ADXL 0060 600



ADXL 0075 600...ADXL 0115 600

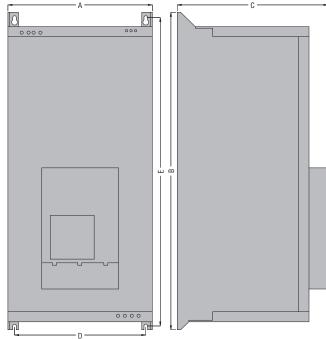






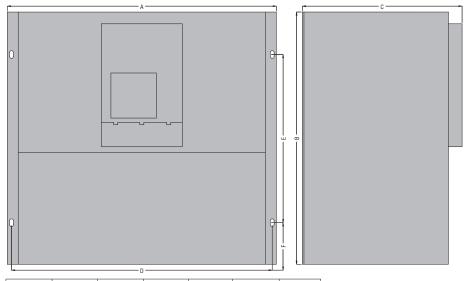
A	В	C	D	E
157 (6.18")	372 (14.64")	223 (8.78")	131 (5.16")	357 (14.05")
157 (6.18")	372 (14.64")	223 (8.78")	131 (5.16")	357 (14.05")
157 (6.18")	372 (14.64")	223 (8.78")	131 (5.16")	357 (14.05")
157 (6.18")	534 (21.02")	250 (9.84")	132 (5.20")	517 (20.35")
157 (6.18")	534 (21.02")	250 (9.84")	132 (5.20")	517 (20.35")
157 (6.18")	534 (21.02")	250 (9.84")	132 (5.20")	517 (20.35")
157 (6.18")	584 (22.99")	250 (9.84")	132 (5.20")	567 (22.32")
157 (6.18")	584 (22.99")	250 (9.84")	132 (5.20")	567 (22.32")
	157 (6.18") 157 (6.18") 157 (6.18") 157 (6.18") 157 (6.18") 157 (6.18") 157 (6.18")	157 (6.18") 372 (14.64") 157 (6.18") 372 (14.64") 157 (6.18") 372 (14.64") 157 (6.18") 534 (21.02") 157 (6.18") 534 (21.02") 157 (6.18") 534 (21.02") 157 (6.18") 584 (22.99")	157 (6.18") 372 (14.64") 223 (8.78") 157 (6.18") 372 (14.64") 223 (8.78") 157 (6.18") 372 (14.64") 223 (8.78") 157 (6.18") 534 (21.02") 250 (9.84") 157 (6.18") 534 (21.02") 250 (9.84") 157 (6.18") 534 (21.02") 250 (9.84") 157 (6.18") 534 (21.02") 250 (9.84")	157 (6.18") 372 (14.64") 223 (8.78") 131 (5.16") 157 (6.18") 372 (14.64") 223 (8.78") 131 (5.16") 157 (6.18") 372 (14.64") 223 (8.78") 131 (5.16") 157 (6.18") 534 (21.02") 250 (9.84") 132 (5.20") 157 (6.18") 534 (21.02") 250 (9.84") 132 (5.20") 157 (6.18") 534 (21.02") 250 (9.84") 132 (5.20") 157 (6.18") 534 (21.02") 250 (9.84") 132 (5.20") 157 (6.18") 584 (22.99") 250 (9.84") 132 (5.20")

ADX 0142 B...ADX 0245 B



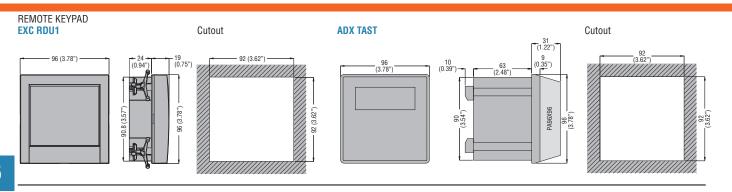
TYPE	Α	В	С	D	Е
ADX 0142B	273 (10.75")	600 (23.62")	285 (11.22")	230 (9.05")	560 (25.20")
ADX 0190B	273 (10.75")	680 (26.77")	310 (12.20")	230 (9.05")	640 (25.20")
ADX 0245B	273 (10.75")	680 (26.77")	310 (12.20")	230 (9.05")	640 (25.20")

ADX 0310...ADX 1200

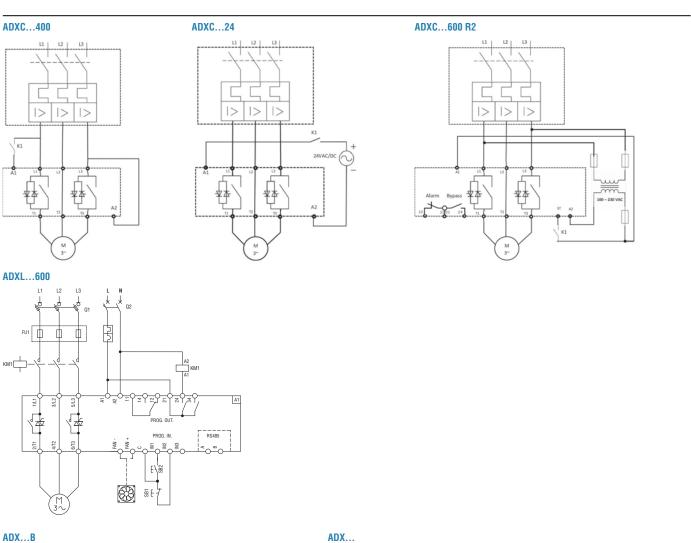


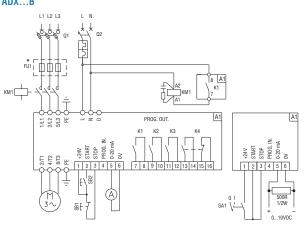
TYPE	A	В	C	D	E	F
ADX 0310	640 (25.20")	600 (23.62")	380 (14.96")	620 (24.41")	400 (15.75")	100 (3.94")
ADX 0365	640 (25.20")	600 (23.62")	380 (14.96")	620 (24.41")	400 (15.75")	100 (3.94")
ADX 0470	790 (31.10")	650 (25.59")	430 (16.93")	770 (30.31")	450 (17.72")	100 (3.94")
ADX 0568	790 (31.10")	650 (25.59")	430 (16.93")	770 (30.31")	450 (17.72")	100 (3.94")
ADX 0640	790 (31.10")	650 (25.59")	430 (16.93")	770 (30.31")	450 (17.72")	100 (3.94")
ADX 0820	910 (35.83")	950 (37.40")	442 (17.40")	830 (32.68")	920 (36.22")	0
ADX 1200	910 (35.83")	950 (37.40")	442 (17.40")	830 (32.68")	920 (36.22")	0

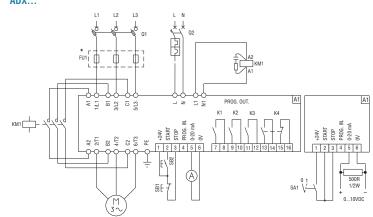
Consult Customer Service; see contact details on inside front cover.



Wiring diagrams







Soft starters Technical characteristics ADXC... types



TYPE			ADXC012	ADXC016	ADXC025	ADXC032	ADXC037	ADXC045	
					With built-in	bypass relay			
Motor	Туре				Asynchronou	is three phase			
	Power	at 220240VAC	3kW / 3HP	4kW / 5HP	5.5kW / 7.5HP	9kW / 10HP	9kW /10HP	11kW / 15HP	
	(40°C)	at 380415VAC	5.5kW / 5HP	7.5kW / 7.5HP	11kW / 10HP	15kW / 15HP	18.5kW /20HP	22kW / 25HP	
		1 at 440480VAC	5.5kW 7.5HP	9kW / 10HP	11kW / 15HP	18.5kW / 20HP	22kW / 25HP	22kW / 30HP	
		1 at 550600VAC	9kW / 10HP	11kW /15HP	20kW / 20HP	22kW / 30HP	30kW / 30HP	37kW / 40HP	
Supply voltage		ge Ue (L1-L2-L3)	2	20400VAC -15+1			· · · · · · · · · · · · · · · · · · ·	R2)	
	Start comm	nand Uc		A1·	-A2: 110400VAC -1	.+10% (ADXC4002 5+10% (ADXC4 +10% (ADXC600	00);		
	Auxiliary po	ower Us	A1-A2: 1	00240VAC -15%			<u>, </u>	L1-L2-L3)	
	Frequency				50/60Hz ±10%	self-configurable			
Undervoltage re	ecovery				174VAC	(ADXC)			
Overvoltage rec	covery			466'	VAC (ADXC400):	; 700VAC (ADXC60	0R2)		
Control input cu	urrent			0.41mA (ADXC	.40024); 0.55mA (ADXC400); 0.43	mA (ADXC600R2)		
Number of cont	trolled phase	S				2			
Starting / stopp	ing method				Current	limitation			
Number of start	ts/hour at 40)°C		20			0	10	
				(Overload cycle: AC53B: 3-5: 175)		(Overlo	ad cycle: 4-6: 354)	(Overload cycle: AC53B: 3.5-5: 355)	
Minimum load o	current		1A	1A	5A	5A	4-6: 354) 5A	AU53B: 3.5-5: 355)	
Rated current Ir		at 40°C IEC	12A	16A	25A	32A	37A	45A	
(according to IE			12A 11A	15A	25A 23A	28A	37A 34A	45A 40A	
,9 10 12		at 60°C IEC	10A		23A 21A			34A	
FLA current		at 40°C UL	10A 12A	13.5A 17A	21A 25A	24A 32A	31A 32A	34A 41A	
(based on UL te	est results)	at 50°C UL	11A	15A	23A	28A	32A	41A	
(44,000	,	at 60°C UL	10A	14A	23A 21A	24.3A			
Motor protectio	.n	at 60 G UL	TUA	14A		_			
Motor protectio						se sequence			
Cooling system Status indicatio			Natural 1 red ALARM; 1 yellow RAMP/BYPASS; 1 green SUPPLY						
STARTUP SETT				1 leu F	ILANIVI, I YEIIUW NAIV	IF/DTFASS, T GIEETT	DUFFLI		
Acceleration rar					1 20	ooondo			
Deceleration rai			120 seconds 020 seconds						
Startup voltage			020 Sections 085%						
RELAY OUTPUT		SOOR2 only)	U00%						
		/pass contact (21, 24)			3.0.250\/\\	/ 3A 30VDC			
		NNECTIONS (L1, L2	1 3 T1 T2 T3)		3A 230VA0	7 3A 30VD0			
Number and typ		, .	., LO, 11, 12, 10)		6 fixed N	M4 screw			
Conductor cros									
Tightening torg		αλ)	2.510mm² (AWG 2x102x14) 2.5Nm (22lbin) / Pozidriv 2						
Cable stripping			8mm/0.31"						
•		ECTIONS (A1, A2)			Omm	70.01			
Number and typ					9 fixed N	M3 screw			
Conductor cros			9 fixed M3 screw 0.51.5mm² (AWG 1018)						
Tightening torq					· · · · · · · · · · · · · · · · · · ·	oin) / Pozidriv 0			
Cable stripping					· · · · · · · · · · · · · · · · · · ·	/0.24"			
		S (11, 12, 21, 24, ST	F1 F2)		0111111	70.21			
Type of termina		0 (,, _,,,	, , /		M3 s	screw			
Conductor cros		ninmax)		0.05		e terminal) (AWG 14.	12)		
Tightening torg	,	minmaxy		0.00		n) / Pozidriv 0			
Cable stripping						/0.24"			
INSULATION	longin				0111111	70.21			
IEC rated insula	ation voltage	Ui		630	VAC (ADX400):	690VAC (ADXC600	OR2)		
AMBIENT COND		-				(
Operating temp			-20°C+4	0°C with no derating;	>40°C+60°C with	derating (see IEC/LII	rated current values	given above)	
Storage temperature -40°C+80°C				9					
Relative humidity						densing at 40°C			
Maximum pollu						2			
Installation cate						 			
Maximum altitu						00m			
HOUSING									
Mounting				Screw fixina	on mounting plate or	on 35mm DIN rail (I	EC/EN 60715)		
IEC degree of p	rotection				• • • • • • • • • • • • • • • • • • • •	220	,		
● For ADXC600I									

Soft starters Technical characteristics **ADXL...** types



TYPE (with 2 controlled phases)		ADXL600			
Motor	Туре	Asynchronous three phase squirrel cage			
	Power	18.5200kW (500VAC)			
		25300HP (550/600VAC)			
0 1 1	Rated current	30320A			
Supply voltage	Power circuit	208600VAC ±10%			
	Auxiliary power Us	100240VAC±10% 50 or 60Hz ±5% self-configurable			
Cooling system	Frequency	ADXL0030600ADXL0115600			
Cooling system	natural forced	ADXL0030000ADXL0113000 ADXL0135600ADXL0320600			
	101060	Optional ADXL0030600ADXL0115600			
PROTECTIONS		·			
Auxiliary supply		Voltage too low			
Power supply		Lack of line voltage, lack of phase, out-of-range frequency,			
		minimum and maximum voltage and phase sequence			
Motor		Overload at starting (trip class 2, 10A, 10, 15, 20, 25, 30, 35 and 40), overload during running (trip class 2, 10A, 10, 15, 20, 25 and 30), locked rotor, current asymmetry, minimum torque and maximum starting time			
Starter		Overcurrent and high temperature			
STARTUP AND STOP SE	ETTINGS				
Startup		Torque ramp with current limit, Voltage ramp with current limit, Constant torque with current limit			
Stop		Torque ramp, voltage ramp, free-wheel stop			
Braking		_			
DISPLAY AND PROGRAI	MMING				
		Using the built-in keyboard and display, PC with CX01 and CX02, App NFC Configurator, App SAM1 with CX02 and remote keyboard with EXC1042			
Display		Backlit icon LCD display			
Measure view		Maximum current, L1 current, L2 current, L3 current, torque, line voltage, total PF, thermal status motor, starter temperature, active power, motor counter, startup counter			
Other views		Operational status, events, alarms, measures			
LED		"POWER", "RUN" and "FAULT"			
DIGITAL INPUTS					
Number of inputs		3			
Input type		2 input with dry contact - 1 input with dry contact or PTC			
Input function		OFF, motor startup, motor stop, free-range stop, motor preheating, local control, alarm disabling, thermal status reset, keyboard lock, motor selection, user alarm			
RELAY OUTPUTS					
Number of outputs		3			
Output arrangement		- 2 NA: 3A 250V~ AC1 - 3A 30V= AC1 - 1 changeover: NO contact 5A 250V~ AC1 - 5A 30V= ; NC contact 3A 250V~ AC1 - 3A 30V=			
Output functions		OFF, motor powered, ramp completed, global alarm, limits, remote variable, Axx alarm			
COMMUNICATION INTE	RFACES				
VARIOUS FUNCTIONS		NFC, front optical port, optional RS485 (EXC1042)			
VARIOUS FUNCTIONS					
Clock Operational data memor	V	Startup counter, motor operation counter			
·	<i>,</i>	and maintenance counter			
AMBIENT CONDITIONS		20 , 10°C (up to 60°C with departing)			
Operating temperature		-20+40°C (up tp 60°C with derating) -30°+80°C			
Storage temperature Maximum altitude		1000m (higher up with derating)			
Maximum pollution degr	ree	3			
Operating position	100	Vertical ±15°			
HOUSING		VOLUGII ±10			
Mounting		Screw-mount on panel or 35mm DIN rail (IEC/EN 60715) with EXP8003 accessory for ADXL0030 600ADXL0115 600			
IEC degree of protection		IP00			
augree of protoction	•	1100			

Soft starters Technical characteristics ADX... types



TYPE		ADXB	ADX				
(with 3 controlled pha	,	(with integrated bypass contactor)	(prearranged for external bypass contactor)				
Motor	Туре	-	e phase squirrel cage				
	Power	7.5132kW (ADXB)	160710kW				
	Rated current	17245A (ADXB)	3101200A				
Supply voltage	Power circuit	208500VAC ±10% standard	208415VAC ±10% standard				
	Assertion and assertion	(208600VAC ±10% on demand)	(other voltages up to 690VAC maximum demand				
	Auxiliary power Us	208240VAC ±10%	208240VAC ±10%				
	Frequency		self-configurable				
Cooling system	Natural	ADX001745B	_				
	Forced	ADX0060245B	All types				
PROTECTION							
Auxiliary supply			e too low				
Power supply		Phase failure, frequency out of voltage and phase sequence	limits, minimum and maximum, ee, 24VDC static short circuit				
Motor		overload during running (trip class 2, 10A, 10, 15	0A, 10, 15, 20, 25, 30, 35, and 40), 5, 20, 25 and 30), locked rotor, current asymmetry, maximum starting time				
Starter		Overcurrent and	high temperature				
Analog inputs and out	tputs	Protection against	24VDC short-circuit				
STARTUP AND STOP	•						
Startup		Torque ramp with ma	ximum current control				
Stop			range or deceleration				
Braking		·	ith external relay				
	DAMMING	l Do dynamic w	in oateman islay				
DISPLAY AND PROGE	TAIVIIVIIIVU	Distinguished an	romata kaynad ar DC				
D: 1		, ,	remote keypad or PC				
Display			2x16 character				
Selectable languages			French, Spanish				
Measure view			Voltage, current, cos, torque, power (kVA, kW and kvar) and energy consumption				
Other views		Operating status, event	s, alarms, event log, data				
LED		"POWER", "RL	IN" and "FAULT"				
DIGITAL AND ANALOG	GUE INPUTS						
Number of inputs			4				
Input type		24VDC (no need	for external feeder)				
Fixed functions		,	2 for starting and stopping/reset				
Multifunction input (dig	gital)	Free-wheel stopping, external alarm, motor preheat,	Free-wheel stopping, external alarm, motor preheat, on board control, alarm inhibition, thermal protectic manual reset, cascade starting and keypad lock				
Multifunction input (a	nalog)	Motor protection via PTC probes, acceleration and/or deceleration ramp via analog input, analog input thresholds for motor starting and stopping, analog input thresholds for programmable relay enable and disable, PT100 input thresholds for motor starting and stopping and PT100 input thresholds for programmable relay enable and disable					
RELAY OUTPUTS		and i i roo input tinesholds for pro	grammable relay enable and disable				
Number of outputs			4				
Output arrangement		1 NO . NO . EA 250V	1 NO+NC: 5A 250V~ AC1 General alarm				
		3 NO: 5A 250V~ AC1 Programmable Motor in running mode, started motor, braking, current threshold triggering, maintenance schedule.					
Output functions			-IN thresholds, Axx alarm				
ANALOG OUTPUT		0.00-4.4	20mA or 010V				
Format configuration							
Associated source	NTEDEACE	Uurrent, torque, motor the	rmal status and power factor				
COMMUNICATIONS IN	NIEKFAUE						
RS232		·	emote control				
RS485		Used for rem	ote keypad only				
VARIOUS FUNCTIONS	S						
Clock		Calendar-clock w	ith back-up battery				
Event memory		20 sequential storing of alarms/events with date and hour					
Operational data mem	nory		up counter, motor operation counter nance counter				
AMBIENT CONDITION	IS						
Operating temperature		-10+45°C (higher up to maxi	-10+45°C (higher up to maximum +45+55°C, with derating)				
Storage temperature	·	, , ,	.+70°C				
Maximum pollution de	Pared		3				
	су: cc						
Maximum altitude			up with derating)				
Operating position		Vertic	al ±15°				
HOUSING							
Mounting		Screw-mo	unt on panel				
IEC degree of protection	on	IP:	000				
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