51ADX0125B

SOFT STARTER, ADX... TYPE, FOR SEVERE DUTY (STARTING CURRENT 5•IE). WITH INTEGRATED BY-PASS CONTACTOR, 125A



Product designation			Soft Starter
Product type designation			ADX…B
Motor type			Asynchronous three phase
Electrical features			
Supplies voltage			
	Type of system		Three phase
	Rated supply voltage	V	208…500VAC
	auxiliary supply voltage (Us)		208…240VAC
	Rated frequency	Hz	50/60
Rated starter current Ie		A	125
Rated motor power			
	IEC ratings (T≤40°C)		
	230VAC	kW	37
	400VAC	kW	55
	500VAC	KW	75
	UL ratings (T≤40°C)		
	220-240VAC	HP	40
	380-415VAC	HP	60
	440-480VAC	HP	100
Number of controlled phases		Nr.	3
Built-in bypass			Yes
Cooling System			Forced
Programming interface			
Display			Backlit LCD 2x16 character
Programming with NFC technology			No
Optical port			No
Startup and stop settings			
Startup method			Torque or voltage ramp with current limitation
Stop method			Torque ramp, voltage ramp, free-wheel stop
Braking method			DC dynamic with external relay
Protections			
Auxiliary supply protection			Voltage too low
Power supply Protection			No power, phase loss, phase sequence, frequency out of limits, minimum and maximum voltage

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Motor protection	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 (dry run),
Starter protection	Overcurrent, overtemperature, bypass failure, phase shorted, temperature sensor fault, maintenance request

Functions	
Built-in bypass	3
Built-in display and keypad	Yes
Languages	Yes
View measurements	4
Torque control	Yes
Adjustable current limit	Yes
Dynamic braking	Yes
Kick Start function	Yes
Motor overload electronic protection	Yes
Motor protection PTC input	Yes
Protection against phase loss	Yes
Protection against phase inversion	Yes
Protection against locked rotor	Yes
Protection against thyristor overtemperature	Yes
Protection against low load	Yes
Programmable alarm	Yes
Digital inputs	Yes
Analog inputs	Yes
Digital outputs	Yes
Analog output	Yes
Monitoring communication	Yes
Optical port for programming	RS323
Event log	No
Motor hour counter	Yes
Startup counter	Yes
Clock calendar	Yes
Remote external keypad	Yes
Plug-in version	Optional

Input and Output			
Digital inputs			
	Number of digital input	Nr.	3 (2 digital inputs + 1 digital/analog input)

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	Digital input type		24VDC (no need for external feeder)
	Digital input functions		1 input for start, 1 input programmable (stop, free-wheel stopping, external alarm, motor preheat, local control, alarms inhibit, manual resetting of motor thermal protection, keypad lock, second moto
Analog inputs			
	Number of analog input	Nr.	1 (digital/analog)
	Analog input type		0-10VDC (0-20mA with external resistor 500Ω)
	Analog input functions		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
Digital outputs			
	Number of digital output	Nr.	4
	Digital output arrangement		3 x 1 NO (SPST) + 1 C/O (SPDT) Ratings: 5A 250VAC AC1, 2A 250VAC AC15
	Digital output functions		C/O output for global alarm, 3 x 1NO outputs programmable (OFF, motor powered, up to speed, braking, current limit, service required, cascade starting, programmable input thresholds, alarm Axx)
Analog outputs			

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Number of analog output		Nr.	1
Analog output type			0...20mA, 4...20mA (0...10V with external resistor 500Ω)
Analog output functions			Current, torque, motor thermal status, power factor and active power

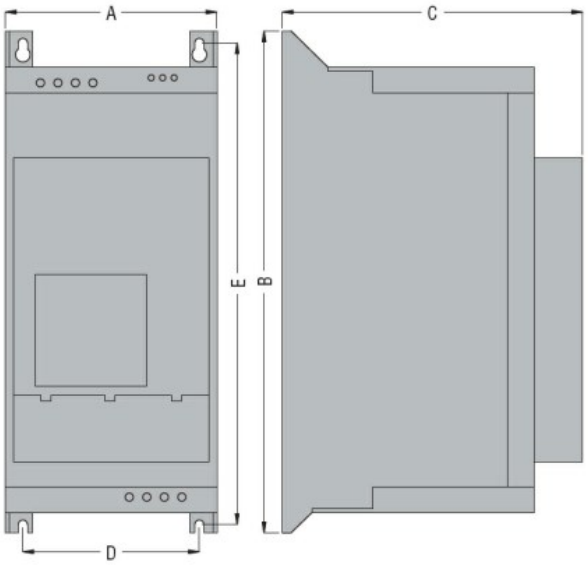
Ambient conditions

Temperature				
	Operating temperature			
		min	°C	-10
		max	°C	+55°C (with current derating >45°C of 1.5%/°C)
	Storage temperature			
		min	°C	-30
		max	°C	+70
Max altitude			m	1000 without derating (over 1000mt with current derating of 0.5%/100m)
Relative humidity			%	95% without condensation or dripping
Pollution degree				3

Housing

Mounting			Screw-fixing
IP degree of protection			IP20
Dimensions (W x H x D)		mm	157 x 584 x 250
Weight		Kg	17.7

Dimensions



TYPE	A	B	C	D	E
ADX 0017B	157 (6.18")	372 (14.64")	223 (8.78")	131 (5.16")	357 (14.05")
ADX 0030B	157 (6.18")	372 (14.64")	223 (8.78")	131 (5.16")	357 (14.05")
ADX 0045B	157 (6.18")	372 (14.64")	223 (8.78")	131 (5.16")	357 (14.05")
ADX 0060B	157 (6.18")	534 (21.02")	250 (9.84")	132 (5.20")	517 (20.35")
ADX 0075B	157 (6.18")	534 (21.02")	250 (9.84")	132 (5.20")	517 (20.35")
ADX 0085B	157 (6.18")	534 (21.02")	250 (9.84")	132 (5.20")	517 (20.35")
ADX 0110B	157 (6.18")	584 (22.99")	250 (9.84")	132 (5.20")	567 (22.32")
ADX 0125B	157 (6.18")	584 (22.99")	250 (9.84")	132 (5.20")	567 (22.32")

Certifications and compliance

Compliance

IEC/EN 60947-1

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	IEC/EN 60947-4-2
Certificates	
	CCC
	EAC

ETIM classification

ETIM 8.0	EC000640 - Soft starter

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