



### 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	245	
--------------------------	---	-----	--

#### Rated motor power in-line

##### IEC ratings (T≤40°C)

230VAC	kW	75
400VAC	kW	132
500VAC	KW	160

##### UL ratings (T≤40°C)

220-240VAC	HP	75
380-415VAC	HP	150
440-480VAC	HP	200

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		
-------------------------	--	--	--

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), overtemperature, starting too long
Starter protection	Overcurrent, overtemperature, bypass failure, phase shorted, temperature sensor fault, maintenance request

Functions	
Built-in bypass	Yes
Built-in display and keypad	Yes
Languages	4
View measurements	Yes
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	3
Analog inputs	1
Digital outputs	4
Analog output	1
Monitoring communication	Yes
Optical port for programming	No
Event log	No
Motor hour counter	Yes
Startup counter	Yes
Clock calendar	Yes
Remote external keypad	Yes

Input and Output	
Digital inputs	

Number of digital input	Nr.	3 (2 digital inputs + 1 digital/analog input)
Digital input type		24VDC (no need for external feeder) 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 motor), 1 input programmable multifunction (OFF, free-wheel stopping, external alarm, motor preheat, local control, alarms inhibit, manual resetting of motor thermal protection, keypad lock, second motor, cascade starting, 0-10V ramp, 2-10V ramp, 0-10V start-stop, PT100 start-stop, PTC protection)
Digital input functions		programmable multifunction (OFF, free-wheel stopping, external alarm, motor preheat, local control, alarms inhibit, manual resetting of motor thermal protection, keypad lock, second motor, cascade starting, 0-10V ramp, 2-10V ramp, 0-10V start-stop, PT100 start-stop, PTC protection)

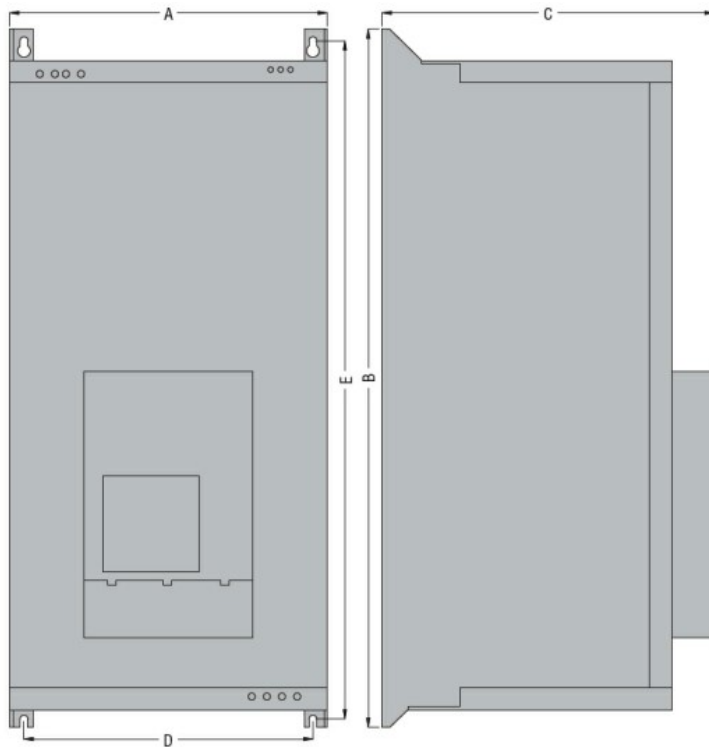
Analog inputs

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 and disable, PT100 input thresholds for motor starting and stopping and PT100 input thresholds for programmable relay enable and disable
<hr/>			
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 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)
	Digital output functions		
<hr/>			
Analog outputs	Number of analog output	Nr.	1
	Analog output type		0...20mA, 4...20mA (0...10V with external resistor 500Ω) Current, torque, motor thermal status, power factor and active power
	Analog output functions		
<hr/>			
<b>Ambient conditions</b>			
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
<b>Housing</b>			
Mounting			Screw-fixing
IP degree of protection			IP00
Dimensions (W x H x D)		mm	273 x 680 x 310
Weight		Kg	39.3

**Dimensions**



TYPE	A	B	C	D	E
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")

**Certifications and compliance**

**Compliance**

IEC/EN 60947-1  
IEC/EN 60947-4-2

**Certificates**

EAC

**ETIM classification**

ETIM 8.0

EC000640 - Soft starter