



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 | 190 | |

Rated motor power in-line

IEC ratings (T≤40°C)

| | | |
|--------|----|-----|
| 230VAC | kW | 55 |
| 400VAC | kW | 90 |
| 500VAC | KW | 132 |

UL ratings (T≤40°C)

| | | |
|------------|----|-----|
| 220-240VAC | HP | 60 |
| 380-415VAC | HP | 100 |
| 440-480VAC | HP | 150 |

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 | | (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 | | |

Ambient conditions

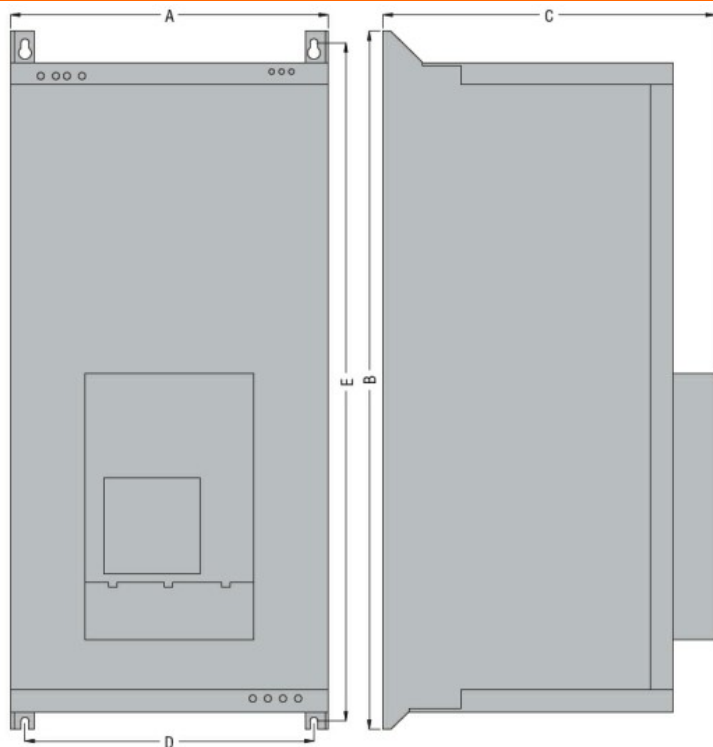
Temperature

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 | | | IP00 |
| Dimensions (W x H x D) | mm | | 273 x 680 x 310 |
| Weight | Kg | | 37.3 |

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