



Electrical features

Supplies voltage

Type of system		Three phase
Rated supply voltage	V	380...690VAC
auxiliary supply voltage (Us)		110...120VAC / 220...240VAC
Rated frequency	Hz	50/60
Rated starter current Ie	A	311

Rated motor power in-line

IEC ratings (T≤40°C)

400VAC	kW	160
500VAC	KW	220
690VAC	KW	315

UL ratings (T≤40°C)

380-415VAC	HP	150
440-480VAC	HP	250
550-600VAC	HP	300

Rated motor power inside delta

IEC ratings (T≤40°C)

400VAC	kW	250
500VAC	KW	315
690VAC	KW	400

UL ratings (T≤40°C)

380-415VAC	HP	250
440-480VAC	HP	350
550-600VAC	HP	450

Number of controlled phases

Nr. 3

Built-in bypass

Yes

Cooling System

Forced

Rated insulation voltage Ui

V 690

Programming interface

Display	LCD graphic display
Programming with NFC technology	No
Optical port	No

Startup and stop settings

Startup method	Constant current, current ramp, voltage ramp, adaptive control
Stop method	Voltage ramp, adaptive control, free-wheel stop, DC braking, soft stop with braking contactor

Protections

Auxiliary supply protection	Voltage too low
Power supply Protection	No power, phase loss, phase sequence, frequency out of limits, voltage out of limits
Motor protection	Overload, locked rotor, current asymmetry, current too low, power too low, overtemperature, starting too long
Starter protection	Overcurrent, overtemperature, phase shorted

Functions

Built-in bypass	Yes
Built-in display and keypad	Yes
Languages	6
View measurements	Yes
Torque control	No
Adjustable current limit	Yes
Dynamic braking	Yes
Kick Start function	Yes
Motor overload electronic protection	Yes
Motor protection PTC input	Thermistor input
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	4
Analog inputs	0
Digital outputs	3
Analog output	1
Optical port for programming	No
Event log	Yes
Motor hour counter	Yes
Startup counter	Yes
Clock calendar	Yes
Remote external keypad	Yes

Input and Output

Digital inputs	Number of digital input	Nr.	4
	Digital input type		4 input with dry contact + 1 thermistor input
	Digital input functions		1x Start/Stop, 1x Reset and 2 Programmable

Digital outputs

Number of digital output	Nr.	3
Digital output arrangement		2x 1NO + 1x C/O 1NO Line contactor + 1NO Programmable + 1C/O Programmable
Digital output functions		

Ambient conditions

Temperature

Operating temperature

min	°C	-10
max	°C	+60°C (with current derating >40°C)

Storage temperature

min	°C	-25
max	°C	+60

Max altitude

m	1000 without derating
---	--------------------------

Relative humidity

%	<95%
---	------

Pollution degree

3

Housing

Mounting

Screw-fixing

IP degree of protection

IP00

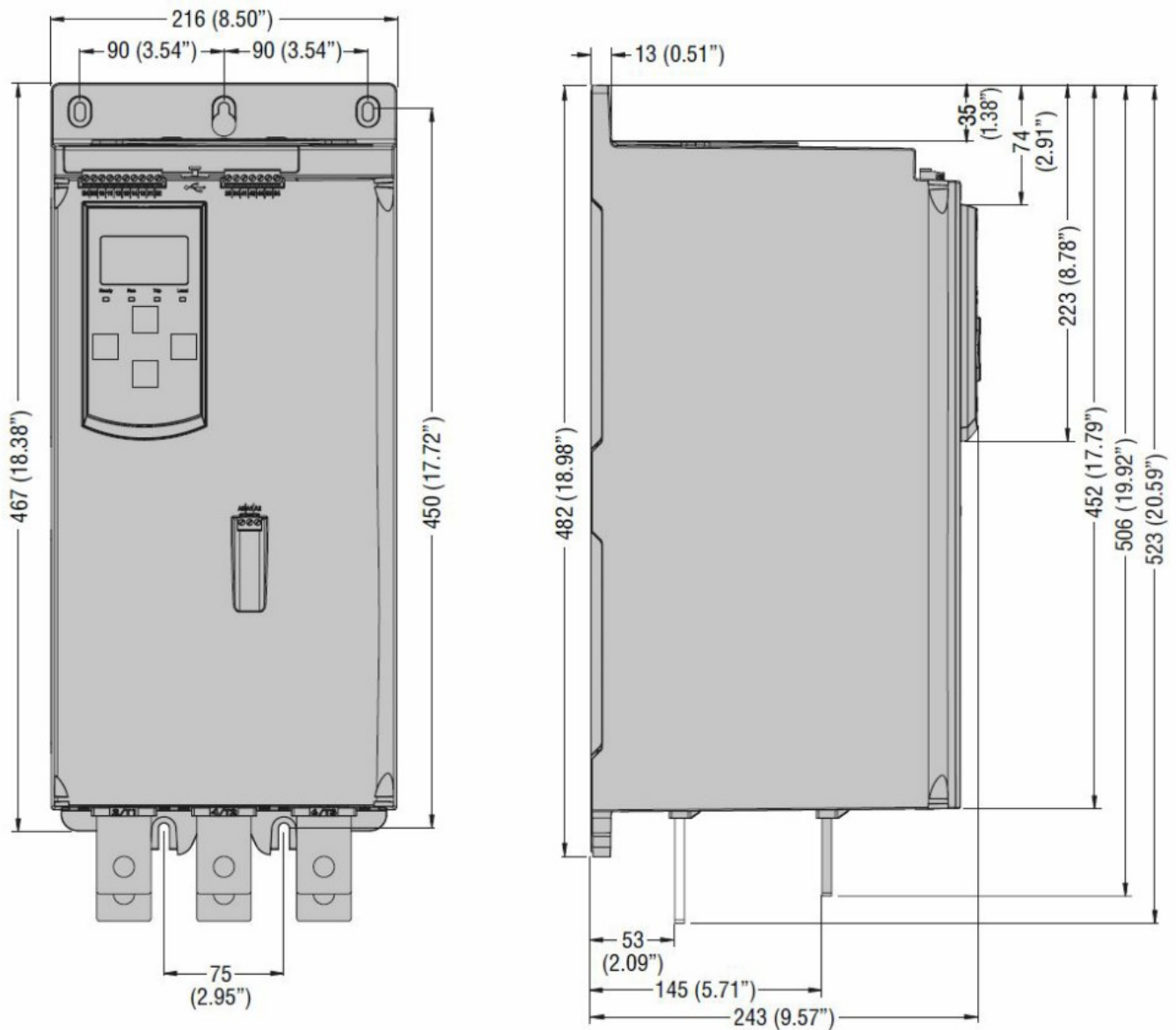
Dimensions (W x H x D)

mm 216x523x244

Weight

Kg 15.5

Dimensions



Certifications and compliance

Compliance

CSA C22.2 n°60947-4-2

IEC/EN/BS 60947-4-2

UL 60947-4-2

Certificates

cULus

RCM

ETIM classification

ETIM 8.0

EC000640 - Soft starter