



Electrical features

Supplies voltage

Type of system	Three phase
Rated supply voltage	380...690VAC
auxiliary supply voltage (Us)	24VAC/DC
Rated frequency	50/60
Rated starter current Ie	A 139

Rated motor power in-line

IEC ratings (T≤40°C)

400VAC	kW	75
500VAC	KW	90
690VAC	KW	132

UL ratings (T≤40°C)

380-415VAC	HP	75
440-480VAC	HP	100
550-600VAC	HP	125

Rated motor power inside delta

IEC ratings (T≤40°C)

400VAC	kW	110
500VAC	KW	132
690VAC	KW	200

UL ratings (T≤40°C)

380-415VAC	HP	125
440-480VAC	HP	150
550-600VAC	HP	200

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
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Relative humidity

%	<95%
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Pollution degree

3

Housing

Mounting

Screw-fixing

IP degree of protection

IP00

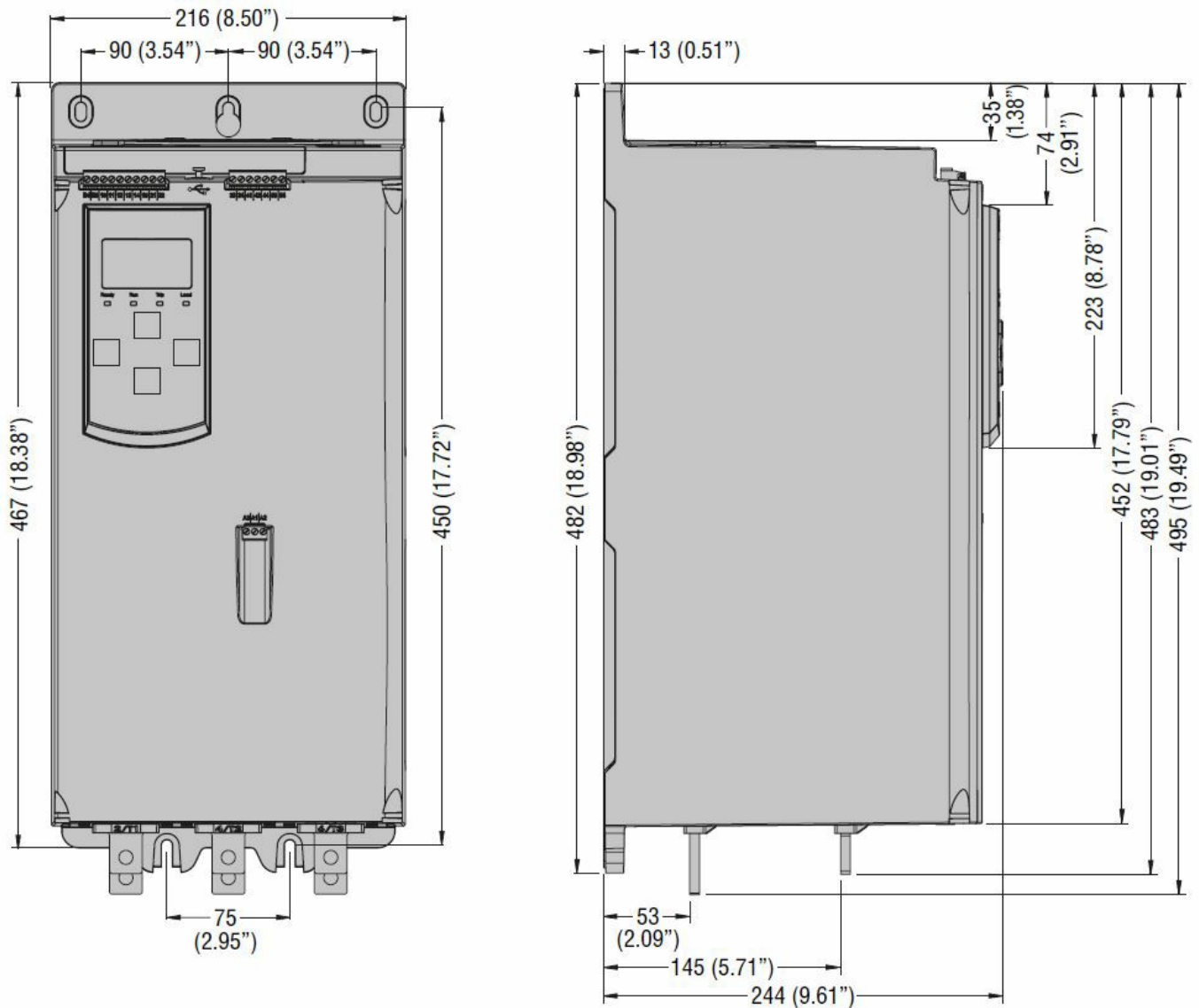
Dimensions (W x H x D)

mm	216x495x244
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Weight

Kg	12.7
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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