



**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	165
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**Rated motor power in-line**

IEC ratings (T≤40°C)

400VAC	kW	90
500VAC	KW	110
690VAC	KW	160

UL ratings (T≤40°C)

380-415VAC	HP	100
440-480VAC	HP	125
550-600VAC	HP	150

**Rated motor power inside delta**

IEC ratings (T≤40°C)

400VAC	kW	132
500VAC	KW	160
690VAC	KW	200

UL ratings (T≤40°C)

380-415VAC	HP	150
440-480VAC	HP	200
550-600VAC	HP	250

Number of controlled phases	Nr.	3
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Built-in bypass	Yes
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Cooling System	Forced
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Rated insulation voltage Ui	V	690
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**Programming interface**

Display	LCD graphic display
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Programming with NFC technology	No
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Optical port	No
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**Startup and stop settings**

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

Mounting

Screw-fixing
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IP degree of protection

IP00
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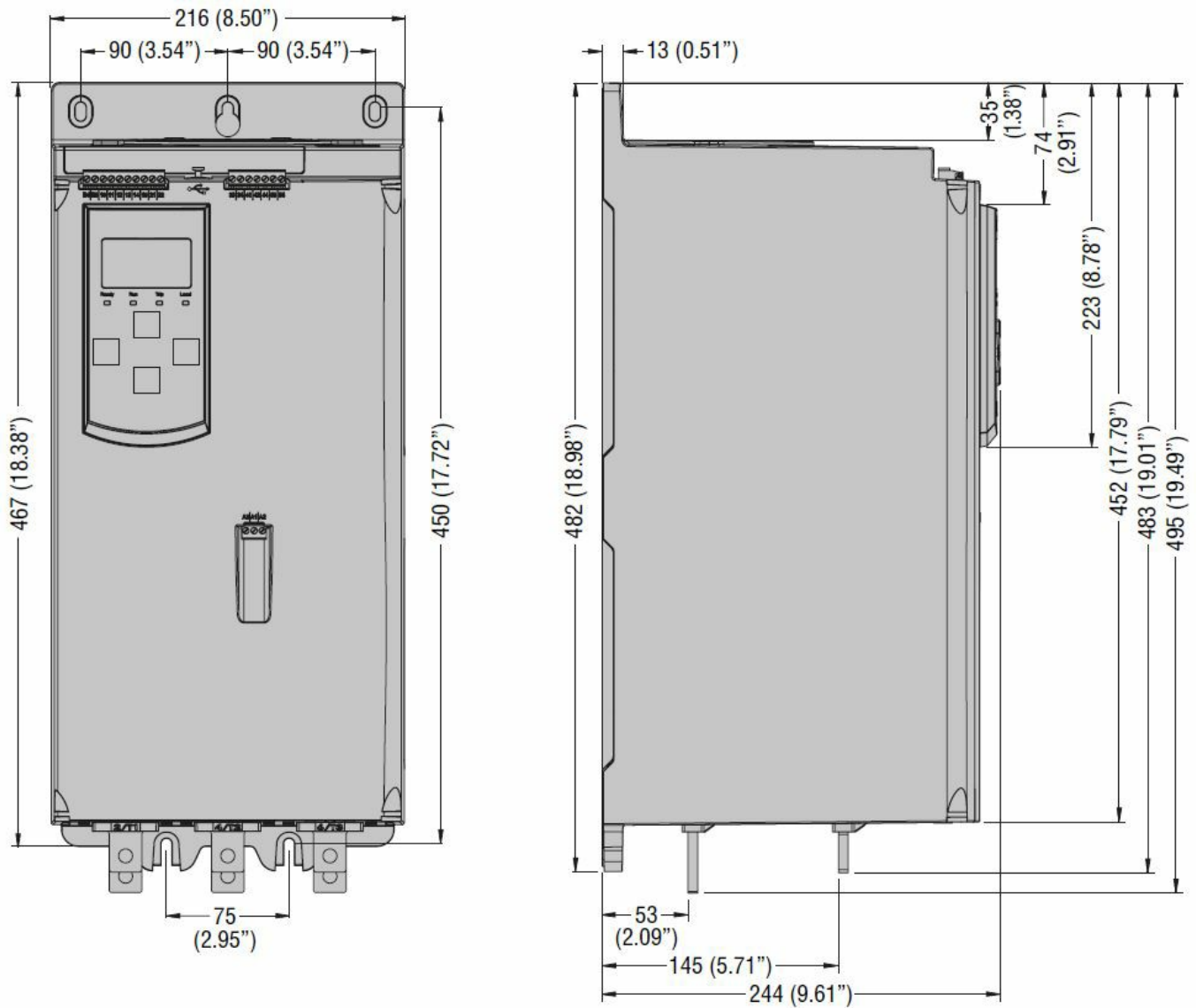
Dimensions (W x H x D)

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