



### Electrical features

#### Supplies voltage

Type of system		Three phase
Rated supply voltage	V	208...600VAC
auxiliary supply voltage (Us)		100...240VAC
Rated frequency	Hz	50/60

Rated starter current Ie	A	162
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#### Rated motor power in-line

##### IEC ratings (T≤40°C)

230VAC	kW	45
400VAC	kW	90
500VAC	KW	110

##### UL ratings (T≤40°C)

220-240VAC	HP	60
380-415VAC	HP	75
440-480VAC	HP	125
550-600VAC	HP	150

Number of controlled phases	Nr.	2
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Built-in bypass	Yes
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Cooling System	Forced
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Rated insulation voltage Ui	V	600
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### Programming interface

Display	Backlit icon LCD display
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Programming with NFC technology	Yes
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Optical port	Yes
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### Startup and stop settings

Startup method	Torque ramp with current limit, Voltage ramp with current limit, Constant torque with current limit
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Stop method	Torque ramp, voltage ramp, free-wheel stop
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### Protections

Auxiliary supply protection	Voltage too low
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Power supply Protection	No power, phase loss, phase sequence, frequency out of limits, minimum and maximum voltage
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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, cooling fan fault, maintenance request

Functions	
Built-in bypass	Yes
Built-in display and keypad	Yes
Languages	6
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	0
Digital outputs	3
Analog output	0
Optical port for programming	Yes
Event log	Yes
Motor hour counter	Yes
Startup counter	Yes
Clock calendar	Yes
Remote external keypad	No

Input and Output	
Digital inputs	Number of digital input    Nr.    3

	Digital input type		2 input with dry contact + 1 input with dry contact or PTC (configurable)
	Digital input functions		Programmable (motor start, motor stop, freewheel stop, motor preheating, commands lock, alarms inhibition, thermal status reset, keyboard lock, motor selection, user alarm, command)
<b>Digital outputs</b>			
	Number of digital output	Nr.	3
	Digital output arrangement		2 x 1 NO (SPST) + 1 C/O (SPDT) Ratings: 2 x 1NO contacts: 3A 250VAC - 3A 30VDC 1 x C/O contact: NO contact 5A 250VAC - 5A 30VDC; NC contact 3A 250VAC - 3A 30VDC Programmable (line contactor, run, global alarm, limits, remote variable, alarm Axx, user alarm Axx, OFF)
	Digital output functions		

**Ambient conditions**

**Temperature**

Operating temperature

min	°C	-20
max	°C	+60°C (with current derating >40°C of 0.5%/°C )

Storage temperature

min	°C	-30
max	°C	+80

**Max altitude**

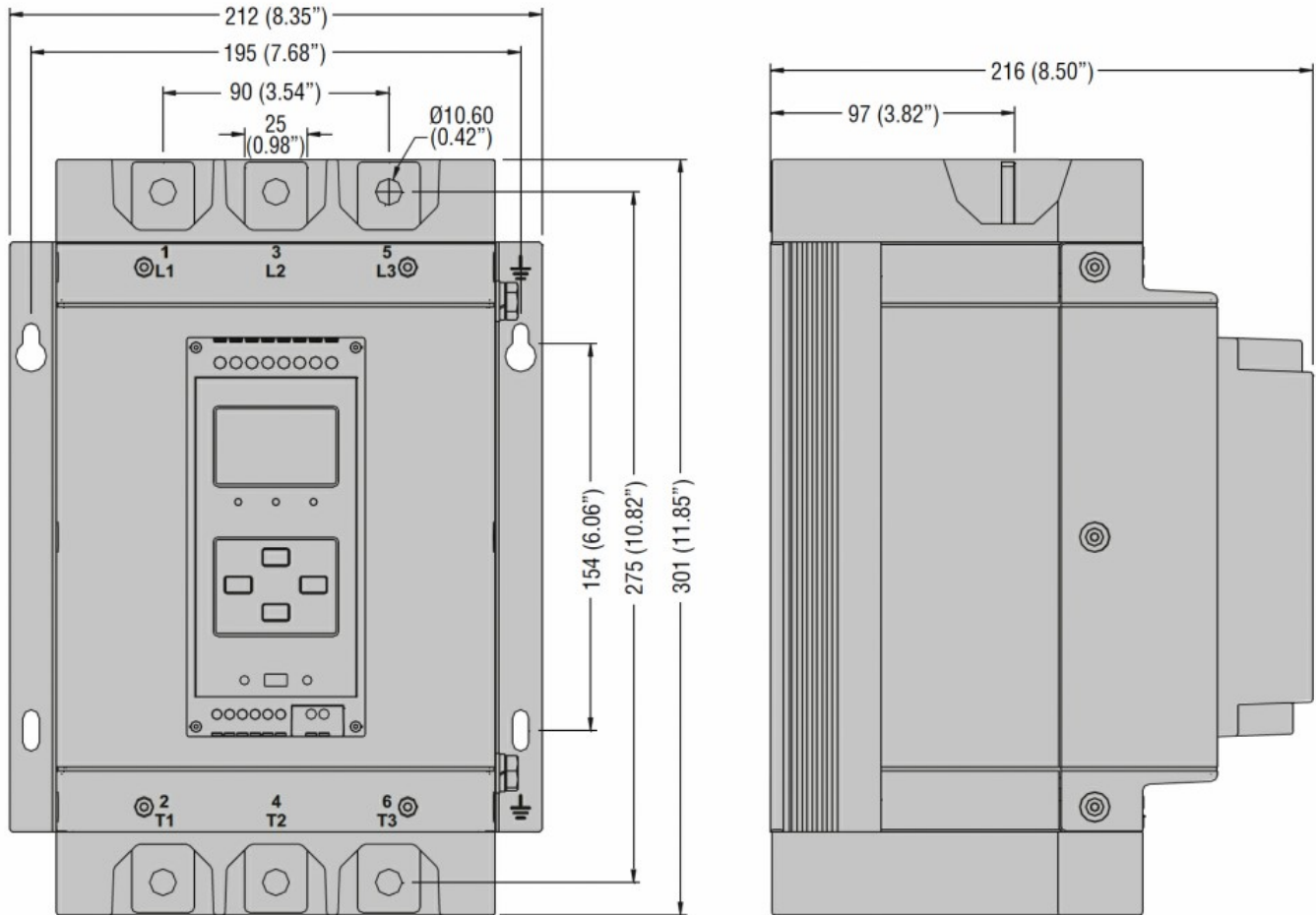
	m	1000 without derating (over 1000mt with current derating of 0.5%/100m)
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**Relative humidity**

	%	<80%
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Pollution degree	2	
Installation category	III	
<b>Housing</b>		
Mounting	Screw-fixing	
IP degree of protection	IP00	
Dimensions (W x H x D)	mm	212 x 301 x 216
Weight	Kg	7.8

**Dimensions**



**Certifications and compliance**

Compliance

CSA C22.2 n° 14  
IEC/EN 60947-1  
IEC/EN 60947-4-2  
UL508

Certificates

cULus  
EAC  
RCM

**ETIM classification**

ETIM 8.0

EC000640 - Soft  
starter