



## 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      | 230          |

### Rated motor power in-line

#### IEC ratings (T≤40°C)

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

#### UL ratings (T≤40°C)

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

### Rated motor power inside delta

#### IEC ratings (T≤40°C)

|        |    |     |
|--------|----|-----|
| 400VAC | kW | 160 |
| 500VAC | KW | 250 |
| 690VAC | KW | 315 |

#### UL ratings (T≤40°C)

|            |    |     |
|------------|----|-----|
| 380-415VAC | HP | 200 |
| 440-480VAC | HP | 250 |
| 550-600VAC | HP | 350 |

|                             |     |        |
|-----------------------------|-----|--------|
| 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<br>1NO Line<br>contactor + 1NO<br>Programmable +<br>1C/O<br>Programmable |
| Digital output functions   |     |                                                                                          |

#### Ambient conditions

##### Temperature

##### Operating temperature

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

##### Storage temperature

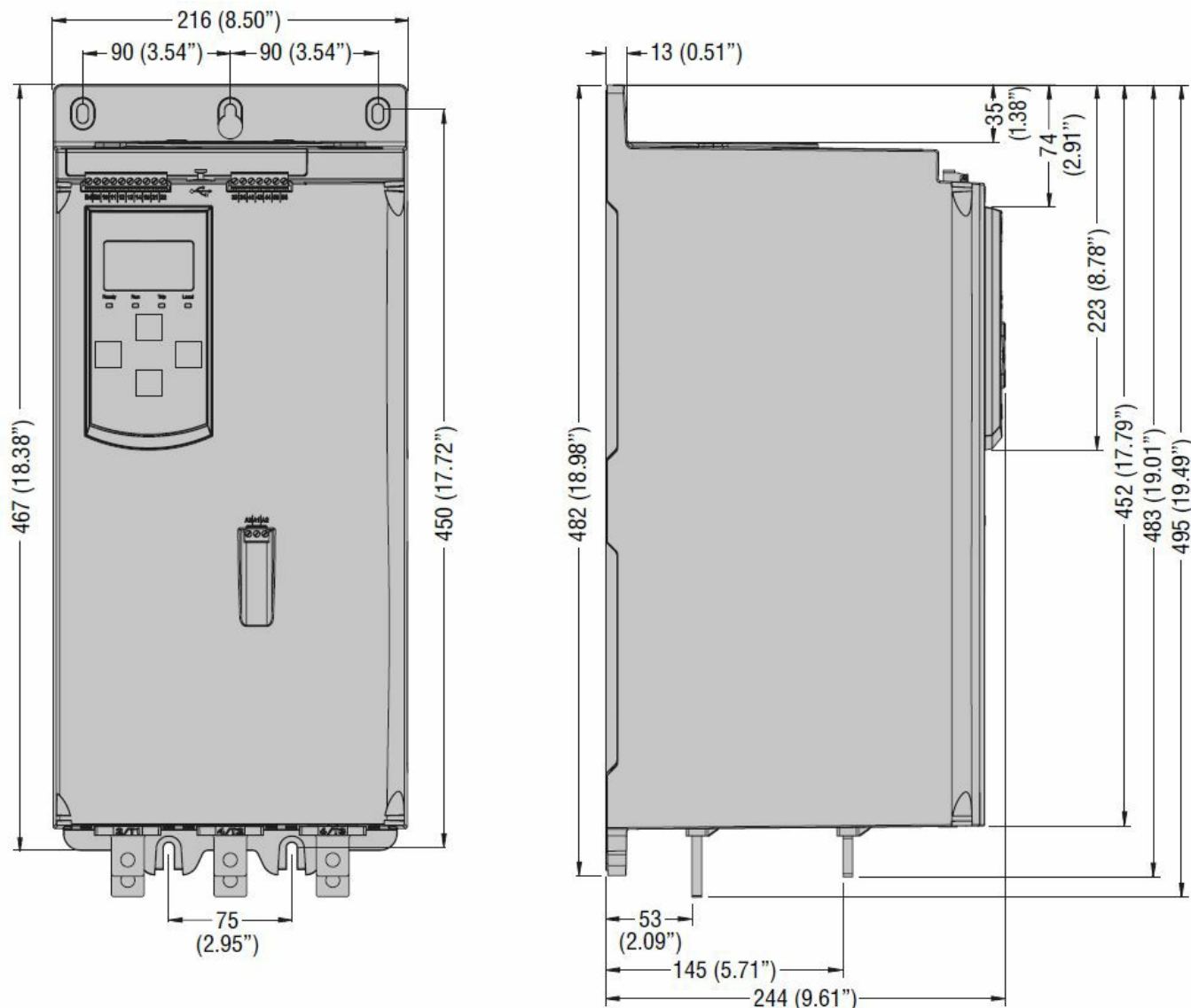
|     |    |     |
|-----|----|-----|
| min | °C | -25 |
| max | °C | +60 |

|                   |   |                          |
|-------------------|---|--------------------------|
| Max altitude      | m | 1000 without<br>derating |
| Relative humidity | % | <95%                     |
| Pollution degree  |   | 3                        |

#### Housing

|                         |    |              |
|-------------------------|----|--------------|
| Mounting                |    | Screw-fixing |
| IP degree of protection |    | IP00         |
| Dimensions (W x H x D)  | mm | 216x495x244  |
| Weight                  | Kg | 12.7         |

#### 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