



**EMERSON**  
Industrial Automation

## Commander SK

General purpose AC drive  
for machinery automation

0.25kW - 132kW (0.33hp - 200hp)  
100V / 200V / 400V / 575V / 690V



**CONTROL  
TECHNIQUES**

[www.controltechniques.com](http://www.controltechniques.com)

## Commander SK, the ultimate general purpose AC drive

Commander SK allows OEMs to add value to their machines whilst also minimising the installed cost. This is achieved through a simple to install, easy to use, yet high performance drive design with integrated features that allow advanced functions to be performed. Commander SK is robust and ideal for industrial automation systems.



## Meeting the drive needs of machinery manufacturers

Commander SK is easy and quick to procure, fit and commission, whether installing 1 or 1000 drives.

### Fast and easy **procurement**

- Control Techniques offer a single source for motors, soft starters, AC and DC drives and servos
- For high volume customers Control Techniques can integrate into your supply chain using lean distribution methods to minimise stock holding and maximise availability

### Fast and easy **installation**

- All drives can be mounted on a flat surface, plus
  - Low power Commander SK drives can click onto standard DIN Rail
  - Commander SK sizes 2 and above can be through panel mounted to allow heat to be dissipated externally. This mounting method allows smaller cabinet dimensions and reduces the need for ventilation
- Integrated features such as EMC filter, PID controller, kW hour meter, integrated brake chopper and onboard PLC option remove the need for many external components

### Fast and easy **connection**

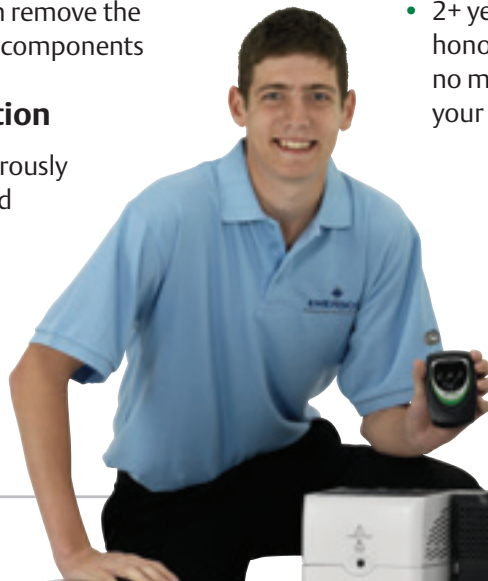
- All connectors are generously sized and clearly labelled
- Control connections use screwless push connectors to reduce time required for wiring and increase reliability

### Fast and easy drive **set-up**

- Simple keypad and display included as standard
- Sufficient set-up information is detailed on the front fascia of the drive for the majority of applications
- For standardised/high volume manufacture, the SmartStick can be used to transfer drive settings to multiple drives
- For more complex applications, a CD containing detailed documentation and free software tools is included to assist with configuration and monitoring

### Fast and easy **support**

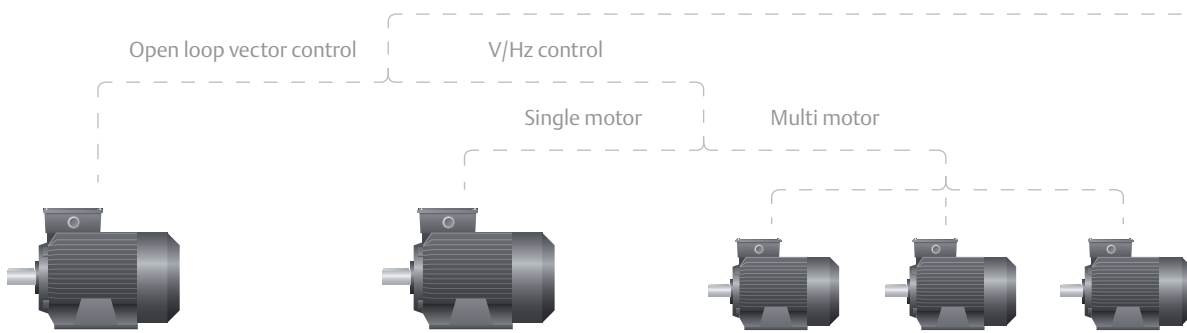
- Commander SK is supported through a global engineering network of 53 Control Techniques Drive Centres in 31 countries, plus authorised resellers located within 36 additional countries
- Commander SK is reliable and requires no scheduled servicing
- 2+ year warranty is honoured worldwide no matter where your drive is installed



Commander SK range  
0.25kW to 132kW with SK-Keypad Remote

# Commander SK - Fast and easy integration flexibility

## Control mode



## Drive programming and operator interface options

|                           |   |   |   |   |   |
|---------------------------|---|---|---|---|---|
| <p>Operator Interface</p> | <p>CT comms cable/<br/>CT USB comms cable</p> | <p>SM-Keypad Plus</p> <p>Remote panel mounting LCD multilingual text keypad display to IP54 (NEMA 12)</p> | <p>SK-Keypad Remote*</p> <p>Remote panel mounting LED display to IP65 (NEMA 12)</p> | <p>SmartStick</p> <p>Upload drive parameters to the SmartStick for storage or for easy set-up of identical drives</p> | <p>LogicStick</p> <p>The LogicStick enables the user to program PLC functions within the drive. It can also be used as a SmartStick</p> |
|---------------------------|---|---|---|---|---|

## Input/Output

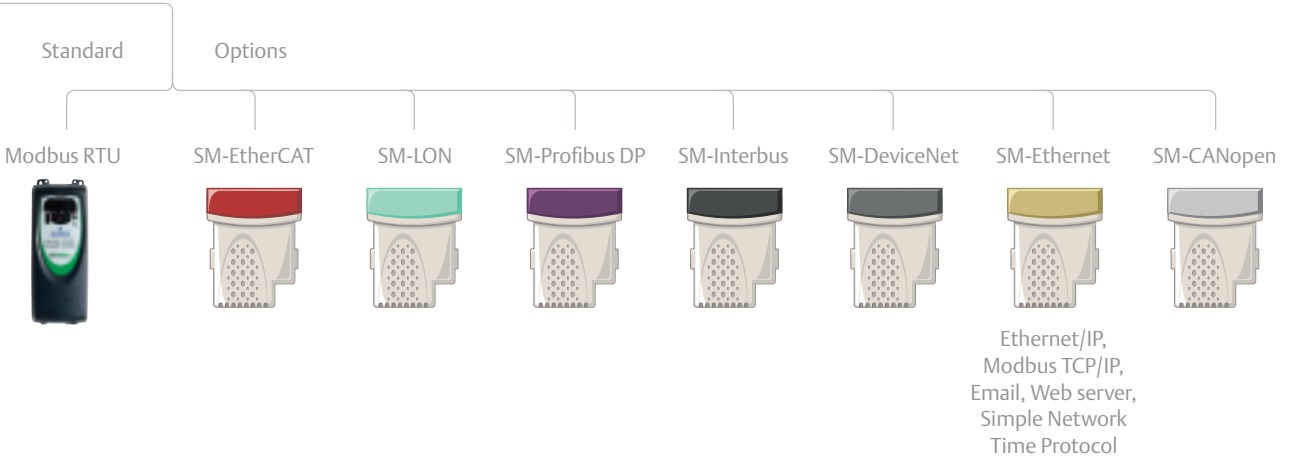
|   |                |                  |                             |                    |                     |                    |                |
|---|----------------|------------------|-----------------------------|--------------------|---------------------|--------------------|----------------|
| <p>Standard</p> <p>4 Digital inputs<br/>1 Digital input/output<br/>1 Relay output<br/>2 Analog inputs<br/>1 Analog output</p> | <p>Options</p> | <p>SM-I/O 32</p> | <p>SM-I/O 24V Protected</p> | <p>SM-I/O Lite</p> | <p>SM-I/O Timer</p> | <p>SM-I/O 120V</p> | <p>SM-PELV</p> |
|---|----------------|------------------|-----------------------------|--------------------|---------------------|--------------------|----------------|

## Typical applications

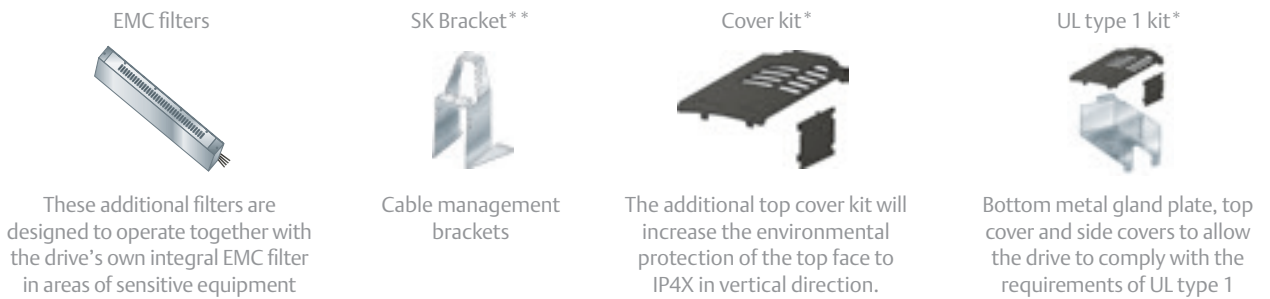




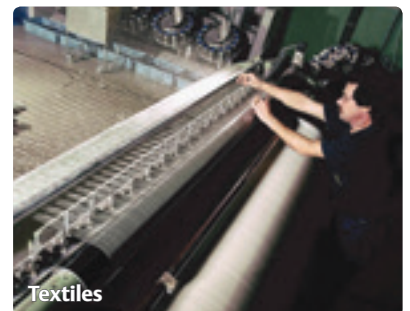
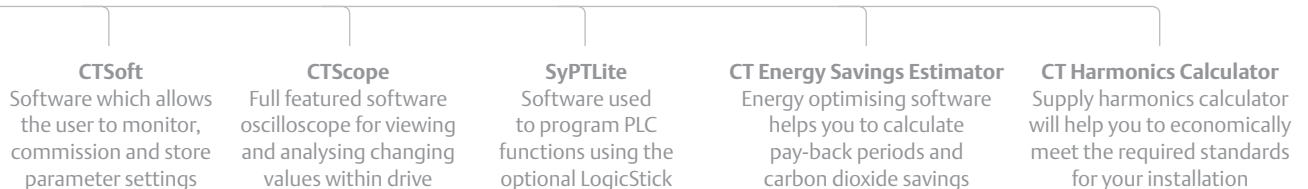
## Communications



## Installation accessories



\* Applicable on sizes A to D only. \*\* Applicable on sizes A to C only. Sizes 2 to 6 have cable management accessories included as standard.



# Commander SK specifications and dimensions

## Specifications

- Automatic no-spin autotune for rapid performance optimisation
- 8 preset speeds available for greater application flexibility
- Keypad access to all parameters – basic and advanced menus
- Open loop vector control. Speed or Torque control
- Speed reference input: 0-10V, 0-20mA, 4-20mA (-10V to +10V SM-I/O Lite option)
- Switching frequency from 3kHz up to 18kHz - quiet motor operation
- Output frequency from 0 to 1500 Hz
- Linear and S type acceleration and deceleration ramps
- Modbus RTU RS485 via RJ45 connector as standard
- DC injection braking as standard
- Dynamic braking transistor as standard
- Energy savings with dynamic motor flux V/Hz
- Fan and pump energy optimisation with quadratic motor flux V/Hz
- Advanced standard software features, such as timers, thresholds, maths blocks, logic operators, PID controller and kW/h meter

## Environmental safety and electrical conformance

- IP20
- UL Type 1 kit and cover kit options up to size D
- Ambient temperature -10°C to 40°C
- Electromagnetic Immunity complies with EN61800-3, EN61000-6-1 and EN61000-6-2
- Humidity 95% maximum (non-condensing)
- Electromagnetic Emissions complies with EN61800-3 (second environment) as standard. Complies with EN61000-6-3 (residential) and EN61000-6-4 (industrial) generic standards with optional footprint EMC filter



## Dimensions



# Ratings

| Frame Size | 100/120 VAC<br>+/- 10% 1 phase<br>(200   240 VAC<br>output) | Normal Duty                      |                           |                        | Heavy Duty                       |                           |                        |
|------------|---|----------------------------------|---------------------------|------------------------|----------------------------------|---------------------------|------------------------|
|            |   | Max<br>Continuous<br>Current (A) | Typical<br>Output<br>(kW) | Motor<br>Power<br>(HP) | Max<br>Continuous<br>Current (A) | Typical<br>Output<br>(kW) | Motor<br>Power<br>(HP) |
|            | Order Code  |                                  |                           |                        |                                  |                           |                        |
| A          | SKA1100025  |                                  |                           |                        | 1.7                              | 0.25                      | 0.33                   |
|            | SKA1100037  |                                  |                           |                        | 2.2                              | 0.37                      | 0.5                    |
| B          | SKB1100075  |                                  |                           |                        | 4                                | 0.75                      | 1                      |
|            | SKB1100110  |                                  |                           |                        | 5.2                              | 1.1                       | 1.5                    |

| Frame Size | 200 / 240 VAC<br>+/- 10% 1 phase | Normal Duty                      |                           |                        | Heavy Duty                       |                           |                        |
|------------|----------------------------------|----------------------------------|---------------------------|------------------------|----------------------------------|---------------------------|------------------------|
|            |                                  | Max<br>Continuous<br>Current (A) | Typical<br>Output<br>(kW) | Motor<br>Power<br>(HP) | Max<br>Continuous<br>Current (A) | Typical<br>Output<br>(kW) | Motor<br>Power<br>(HP) |
|            | Order Code                       |                                  |                           |                        |                                  |                           |                        |
| A          | SKA1200025                       |                                  |                           |                        | 1.7                              | 0.25                      | 0.33                   |
|            | SKA1200037                       |                                  |                           |                        | 2.2                              | 0.37                      | 0.5                    |
|            | SKA1200055                       |                                  |                           |                        | 3                                | 0.55                      | 0.75                   |
|            | SKA1200075                       |                                  |                           |                        | 4                                | 0.75                      | 1                      |
| B          | SKBD200110                       |                                  |                           |                        | 5.2                              | 1.1                       | 1.5                    |
|            | SKBD200150                       |                                  |                           |                        | 7                                | 1.5                       | 2                      |
| C          | SKCD200220                       |                                  |                           |                        | 9.6                              | 2.2                       | 3                      |
| D          | SKDD200300                       |                                  |                           |                        | 12.6                             | 3                         | 3                      |

| Frame Size | 200 / 240 VAC<br>+/- 10% 3 phase | Normal Duty                      |                           |                        | Heavy Duty                       |                           |                        |
|------------|----------------------------------|----------------------------------|---------------------------|------------------------|----------------------------------|---------------------------|------------------------|
|            |                                  | Max<br>Continuous<br>Current (A) | Typical<br>Output<br>(kW) | Motor<br>Power<br>(HP) | Max<br>Continuous<br>Current (A) | Typical<br>Output<br>(kW) | Motor<br>Power<br>(HP) |
|            | Order Code                       |                                  |                           |                        |                                  |                           |                        |
| B          | SKBD200110                       |                                  |                           |                        | 5.2                              | 1.1                       | 1.5                    |
|            | SKBD200150                       |                                  |                           |                        | 7                                | 1.5                       | 2                      |
| C          | SKCD200220                       |                                  |                           |                        | 9.6                              | 2.2                       | 3                      |
| D          | SKDD200300                       |                                  |                           |                        | 12.6                             | 3                         | 3                      |
| 2          | SKD3200400                       |                                  |                           |                        | 17                               | 4                         | 5                      |
|            | SK2201                           | 15.5                             | 4                         | 5                      | 12.6                             | 3                         | 3                      |
|            | SK2202                           | 22                               | 5.5                       | 7.5                    | 17                               | 4                         | 5                      |
| 3          | SK2203                           | 28                               | 7.5                       | 10                     | 25                               | 5.5                       | 7.5                    |
|            | SK3201                           | 42                               | 11                        | 15                     | 31                               | 7.5                       | 10                     |
|            | SK3202                           | 54                               | 15                        | 20                     | 42                               | 11                        | 15                     |
| 4          | SK4201                           | 68                               | 18.5                      | 25                     | 56                               | 15                        | 20                     |
|            | SK4202                           | 80                               | 22                        | 30                     | 68                               | 18.5                      | 25                     |
|            | SK4203                           | 104                              | 30                        | 40                     | 80                               | 22                        | 30                     |

| Frame Size | 380 / 480 VAC<br>+/- 10% 3 phase | Normal Duty                      |                           |                        | Heavy Duty                       |                           |                        |
|------------|----------------------------------|----------------------------------|---------------------------|------------------------|----------------------------------|---------------------------|------------------------|
|            |                                  | Max<br>Continuous<br>Current (A) | Typical<br>Output<br>(kW) | Motor<br>Power<br>(HP) | Max<br>Continuous<br>Current (A) | Typical<br>Output<br>(kW) | Motor<br>Power<br>(HP) |
|            | Order Code                       |                                  |                           |                        |                                  |                           |                        |
| B          | SKB3400037                       |                                  |                           |                        | 1.3                              | 0.37                      | 0.5                    |
|            | SKB3400055                       |                                  |                           |                        | 1.7                              | 0.55                      | 0.75                   |
|            | SKB3400075                       |                                  |                           |                        | 2.1                              | 0.75                      | 1                      |
|            | SKB3400110                       |                                  |                           |                        | 2.8                              | 1.1                       | 1.5                    |
| C          | SKB3400150                       |                                  |                           |                        | 3.8                              | 1.5                       | 2                      |
|            | SKC3400220                       |                                  |                           |                        | 5.1                              | 2.2                       | 3                      |
|            | SKC3400300                       |                                  |                           |                        | 7.2                              | 3                         | 3                      |
| D          | SKC3400400                       |                                  |                           |                        | 9                                | 4                         | 5                      |
|            | SKD3400550                       |                                  |                           |                        | 13                               | 5.5                       | 7.5                    |
|            | SKD3400750                       |                                  |                           |                        | 16.5                             | 7.5                       | 10                     |

| Frame Size | 380 / 480 VAC<br>+/- 10% 3 phase | Normal Duty                      |                           |                        | Heavy Duty                       |                           |                        |
|------------|----------------------------------|----------------------------------|---------------------------|------------------------|----------------------------------|---------------------------|------------------------|
|            |                                  | Max<br>Continuous<br>Current (A) | Typical<br>Output<br>(kW) | Motor<br>Power<br>(HP) | Max<br>Continuous<br>Current (A) | Typical<br>Output<br>(kW) | Motor<br>Power<br>(HP) |
|            | Order Code                       |                                  |                           |                        |                                  |                           |                        |
| 2          | SK2401                           | 15.3                             | 7.5                       | 10                     | 13                               | 5.5                       | 7.5                    |
|            | SK2402                           | 21                               | 11                        | 15                     | 16.5                             | 7.5                       | 10                     |
|            | SK2403                           | 29                               | 15                        | 20                     | 25                               | 11                        | 20                     |
|            | SK2404                           |                                  |                           |                        | 29                               | 15                        | 20                     |
| 3          | SK3401                           | 35                               | 18.5                      | 25                     | 32                               | 15                        | 25                     |
|            | SK3402                           | 43                               | 22                        | 30                     | 40                               | 18.5                      | 30                     |
|            | SK3403                           | 56                               | 30                        | 40                     | 46                               | 22                        | 30                     |
| 4          | SK4401                           | 68                               | 37                        | 50                     | 60                               | 30                        | 50                     |
|            | SK4402                           | 83                               | 45                        | 60                     | 74                               | 37                        | 60                     |
|            | SK4403                           | 104                              | 55                        | 75                     | 96                               | 45                        | 75                     |
| 5          | SK5401                           | 138                              | 75                        | 100                    | 124                              | 55                        | 100                    |
|            | SK5402                           | 168                              | 90                        | 125                    | 156                              | 75                        | 125                    |
| 6          | SK6401                           | 205                              | 110                       | 150                    | 180                              | 90                        | 150                    |
|            | SK6402                           | 236                              | 132                       | 200                    | 210                              | 110                       | 150                    |

| Frame Size | 575 VAC<br>+/- 10% 3 phase | Normal Duty                      |                           |                        | Heavy Duty                       |                           |                        |
|------------|----------------------------|----------------------------------|---------------------------|------------------------|----------------------------------|---------------------------|------------------------|
|            |                            | Max<br>Continuous<br>Current (A) | Typical<br>Output<br>(kW) | Motor<br>Power<br>(HP) | Max<br>Continuous<br>Current (A) | Typical<br>Output<br>(kW) | Motor<br>Power<br>(HP) |
|            | Order Code                 |                                  |                           |                        |                                  |                           |                        |
| 3          | SK3501                     | 5.4                              | 3                         | 3                      | 4.1                              | 2.2                       | 2                      |
|            | SK3502                     | 6.1                              | 4                         | 5                      | 5.4                              | 3                         | 3                      |
|            | SK3503                     | 8.4                              | 5.5                       | 7.5                    | 6.1                              | 4                         | 5                      |
|            | SK3504                     | 11                               | 7.5                       | 10                     | 9.5                              | 5.5                       | 7.5                    |
|            | SK3505                     | 16                               | 11                        | 15                     | 12                               | 7.5                       | 10                     |
|            | SK3506                     | 22                               | 15                        | 20                     | 18                               | 11                        | 15                     |
|            | SK3507                     | 27                               | 18.5                      | 25                     | 22                               | 15                        | 20                     |
| 4          | SK4603                     | 36                               | 22                        | 30                     | 27                               | 18.5                      | 25                     |
|            | SK4604                     | 43                               | 30                        | 40                     | 36                               | 22                        | 30                     |
|            | SK4605                     | 52                               | 37                        | 50                     | 43                               | 30                        | 40                     |
| 5          | SK4606                     | 62                               | 45                        | 60                     | 52                               | 37                        | 50                     |
|            | SK5601                     | 84                               | 55                        | 75                     | 63                               | 45                        | 60                     |
| 6          | SK5602                     | 99                               | 75                        | 100                    | 85                               | 55                        | 75                     |
|            | SK6601                     | 125                              | 90                        | 125                    | 100                              | 75                        | 100                    |
|            | SK6602                     | 144                              | 110                       | 150                    | 125                              | 90                        | 125                    |

| Frame Size | 690 VAC<br>+/- 10% 3 phase | Normal Duty                      |                           |                        | Heavy Duty                       |                           |                        |
|------------|----------------------------|----------------------------------|---------------------------|------------------------|----------------------------------|---------------------------|------------------------|
|            |                            | Max<br>Continuous<br>Current (A) | Typical<br>Output<br>(kW) | Motor<br>Power<br>(HP) | Max<br>Continuous<br>Current (A) | Typical<br>Output<br>(kW) | Motor<br>Power<br>(HP) |
|            | Order Code                 |                                  |                           |                        |                                  |                           |                        |
| 4          | SK4601                     | 22                               | 18.5                      | 25                     | 19                               | 15                        | 20                     |
|            | SK4602                     | 27                               | 22                        | 30                     | 22                               | 18.5                      | 25                     |
|            | SK4603                     | 36                               | 30                        | 40                     | 27                               | 22                        | 30                     |
|            | SK4604                     | 43                               | 37                        | 50                     | 36                               | 30                        | 40                     |
|            | SK4605                     | 52                               | 45                        | 60                     | 43                               | 37                        | 50                     |
| 5          | SK4606                     | 62                               | 55                        | 75                     | 52                               | 45                        | 60                     |
|            | SK5601                     | 84                               | 75                        | 100                    | 63                               | 55                        | 75                     |
| 6          | SK5602                     | 99                               | 90                        | 125                    | 85                               | 75                        | 100                    |
|            | SK6601                     | 125                              | 110                       | 150                    | 100                              | 90                        | 125                    |
|            | SK6602                     | 144                              | 132                       | 175                    | 125                              | 110                       | 150                    |

| Normal Duty  | Heavy Duty   |
|--|--|
| 110% overload current for 215 s.<br>For applications which use self-ventilated induction motors and require a low overload capability (e.g. fans, pumps) | 150% overload current for 60 s.<br>For constant torque applications which require a high overload capability (e.g. cranes, hoists) |

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