



Commander SK

General purpose AC drive
for machinery automation

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



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**

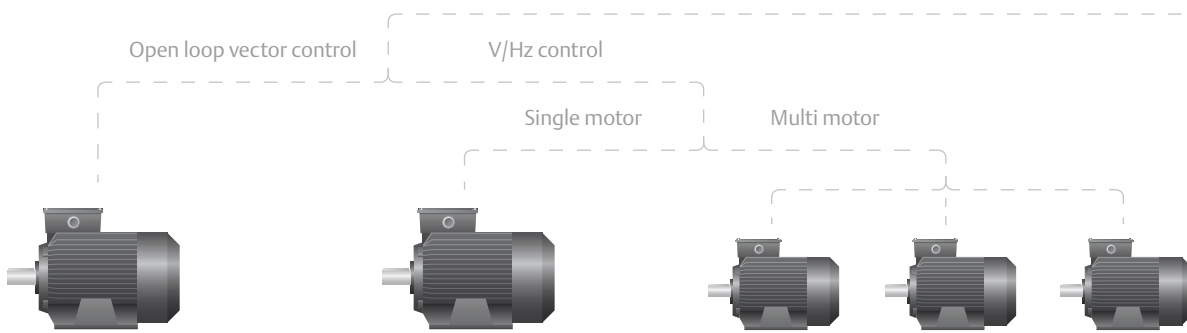
- Commander SK is supported through a global engineering network of 53 Control Techniques Drive Centres in 31 countries, plus authorised resellers located within 36 additional countries
- Commander SK is reliable and requires no scheduled servicing
- 2+ year warranty is honoured worldwide no matter where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



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

Commander SK - Fast and easy integration flexibility

Control mode



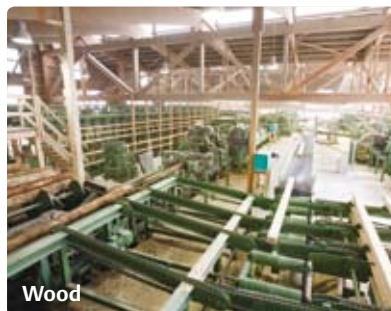
Drive programming and operator interface options

| | | | | | |
|---------------------------|---|---|---|---|---|
| <p>Operator Interface</p> | <p>CT comms cable/ 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 1 Digital input/output 1 Relay output 2 Analog inputs 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

Standard

Options

Modbus RTU



SM-EtherCAT



SM-LON



SM-Profibus DP



SM-Interbus



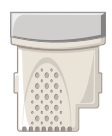
SM-DeviceNet



SM-Ethernet



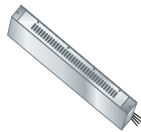
SM-CANopen



Ethernet/IP,
Modbus TCP/IP,
Email, Web server,
Simple Network
Time Protocol

Installation accessories

EMC filters



These additional filters are designed to operate together with the drive's own integral EMC filter in areas of sensitive equipment

SK Bracket**



Cable management brackets

Cover kit*



The additional top cover kit will increase the environmental protection of the top face to IP4X in vertical direction.

UL type 1 kit*



Bottom metal gland plate, top cover and side covers to allow the drive to comply with the requirements of UL type 1

* 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.



CTSoft

Software which allows the user to monitor, commission and store parameter settings

CTScope

Full featured software oscilloscope for viewing and analysing changing values within drive

SyPTLite

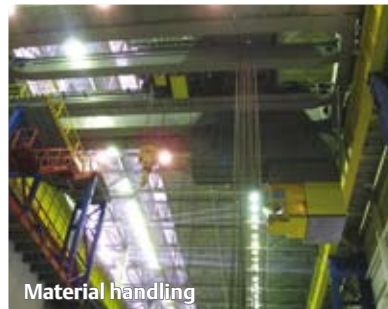
Software used to program PLC functions using the optional LogicStick

CT Energy Savings Estimator

Energy optimising software helps you to calculate pay-back periods and carbon dioxide savings

CT Harmonics Calculator

Supply harmonics calculator will help you to economically meet the required standards for your installation



Commander SK specifications and dimensions

Specifications

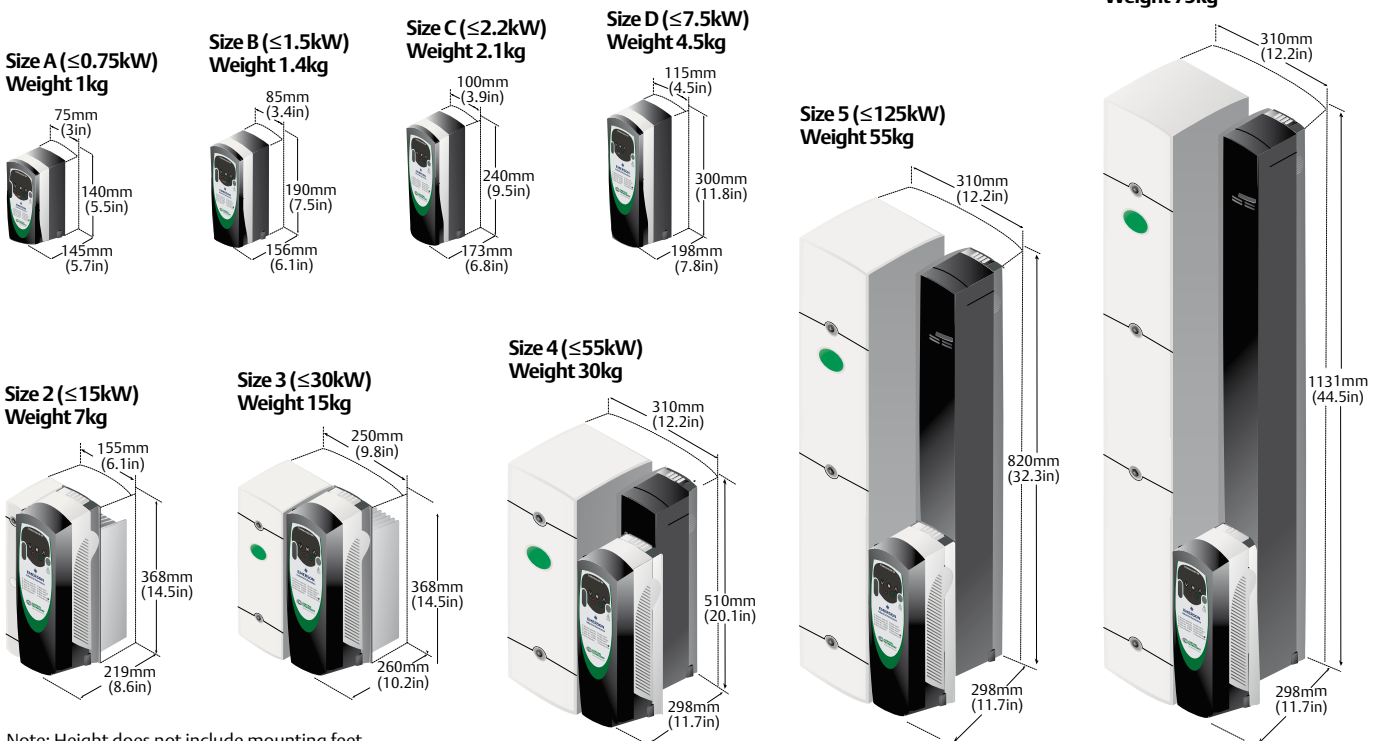
- Automatic no-spin autotune for rapid performance optimisation
- 8 preset speeds available for greater application flexibility
- Keypad access to all parameters – basic and advanced menus
- Open loop vector control. Speed or Torque control
- Speed reference input: 0-10V, 0-20mA, 4-20mA (-10V to +10V 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 +/- 10% 1 phase (200 240 VAC output) | Normal Duty | | | Heavy Duty | | |
|------------|---|----------------------------------|---------------------------|------------------------|----------------------------------|---------------------------|------------------------|
| | | Max Continuous Current (A) | Typical Output (kW) | Motor Power (HP) | Max Continuous Current (A) | Typical Output (kW) | Motor Power (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 +/- 10% 1 phase | Normal Duty | | | Heavy Duty | | |
|------------|----------------------------------|----------------------------------|---------------------------|------------------------|----------------------------------|---------------------------|------------------------|
| | | Max Continuous Current (A) | Typical Output (kW) | Motor Power (HP) | Max Continuous Current (A) | Typical Output (kW) | Motor Power (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 +/- 10% 3 phase | Normal Duty | | | Heavy Duty | | |
|------------|----------------------------------|----------------------------------|---------------------------|------------------------|----------------------------------|---------------------------|------------------------|
| | | Max Continuous Current (A) | Typical Output (kW) | Motor Power (HP) | Max Continuous Current (A) | Typical Output (kW) | Motor Power (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 +/- 10% 3 phase | Normal Duty | | | Heavy Duty | | |
|------------|----------------------------------|----------------------------------|---------------------------|------------------------|----------------------------------|---------------------------|------------------------|
| | | Max Continuous Current (A) | Typical Output (kW) | Motor Power (HP) | Max Continuous Current (A) | Typical Output (kW) | Motor Power (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 +/- 10% 3 phase | Normal Duty | | | Heavy Duty | | |
|------------|----------------------------------|----------------------------------|---------------------------|------------------------|----------------------------------|---------------------------|------------------------|
| | | Max Continuous Current (A) | Typical Output (kW) | Motor Power (HP) | Max Continuous Current (A) | Typical Output (kW) | Motor Power (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 +/- 10% 3 phase | Normal Duty | | | Heavy Duty | | |
|------------|----------------------------|----------------------------------|---------------------------|------------------------|----------------------------------|---------------------------|------------------------|
| | | Max Continuous Current (A) | Typical Output (kW) | Motor Power (HP) | Max Continuous Current (A) | Typical Output (kW) | Motor Power (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 +/- 10% 3 phase | Normal Duty | | | Heavy Duty | | |
|------------|----------------------------|----------------------------------|---------------------------|------------------------|----------------------------------|---------------------------|------------------------|
| | | Max Continuous Current (A) | Typical Output (kW) | Motor Power (HP) | Max Continuous Current (A) | Typical Output (kW) | Motor Power (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. For applications which use self-ventilated induction motors and require a low overload capability (e.g. fans, pumps) | 150% overload current for 60 s. For constant torque applications which require a high overload capability (e.g. cranes, hoists) |

DRIVING THE WORLD...

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