



Commander SE

AC drive 0.25 to 15kW Simple and easy to use

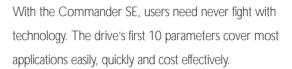


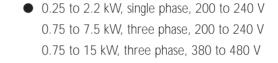


Commander SE... control without complexity

Commander SE gives you just the features you need...

Reducing complexity and cost is what Control Techniques' new Commander SE microdrive is all about. The SE stands for Simple and Easy...and it is: SIMPLE to install and EASY to use.





- Only 10 parameters needed for most applications level 1
- Quick installation with convenient cable management
- Large easy-to-cable power terminals
- Standard size, pluggable control terminals
- Integrated braking transistor from 0.75 15 kW
- Level 2 parameters for added flexibility and functionality
- No spin rotating autotune for fast drive/motor optimisation
- Minimum motor noise with maximum drive protection via unique Intelligent Thermal Management (ITM)
- RS485 serial communications as standard on all sizes.
- Level 3 parameters for ultimate control.
 Advanced menus (via serial comms)
- Complies with power drive systems standard EN 68100-3 for the second environment 'Industrial sites' without an additional EMC filter.
- Small enough to fit big enough to use





size matters...

small drive, large performance...

The Commander SE is a microdrive that combines unmatched flexibility with a small footprint. In the applications for which it is designed, size is important, but

not to the extent that heat dissipation and (hence) dependability are compromised. In the design of the Commander SE **they are not**.

- No other microdrive can talk your language so easily courtesy of plug-in communication packages that will include, Profibus-DP, DeviceNet, CAN Open, Interbus-S and CT Net
- Commander SE's new, Intelligent Thermal Management technology reduces nuisance tripping and ensures minimum motor noise while fully protecting the drive
- The mains dip ride-through feature gives maximum protection against expensive process stoppages and minimises product wastage, breakages and downtime
- When you need ultimate control, Commander SE's Level 3 parameters give the user, via serial communications, access to advanced features such as: PID Controller, kW hour meter, 8 preset speeds, motorised potentiometer, second motor map and lots more
- Maximum shaft torque with open loop vector control
- Commander SE up to 4kW, fits space saving 200mm deep cubicles even with footprint EMC filter fitted.



small enough to fit...big enough to use



but dependability is paramount

more than just a product...

A synergy of design, manufacture, assembly and service....

Many factors can affect the dependability of a drive, including environment, heat build-up, over voltages and shocks. In small drives, with their compressed architectures, the potential for problems is much greater. Achieving dependability is all about achieving a synergy of design, manufacture and assembly. The Commander SE has this synergy. Its architecture is designed to reflect the space constraints of its enclosure.

robust and dependable... so you can fit and forget

The Commander SE comes with the added back-up of Control Techniques' 2 year worldwide warranty and the security of service levels that no other company can provide. Control Techniques has more than 1.6 million drives in operation worldwide, and everyday over 600 drives engineers provide local application and customer support from 50 centres across the globe. It's a unique and unparalleled service and it works by making our customers the focus of our activities - so you can buy our products with confidence.

- Rugged, industrial 50°C ambient rating for applications where operating conditions are hot and tough
- The drive is assembled as a single pcb which, because of the unique two processor design, requires 50% less connections between its control and power devices.
 Less connections means greater robustness, less potential problem areas and greater dependability
- The Commander SE is designed with industrialised mounting brackets which are cast as part of the heatsink, providing robust mounting.
- IP21/NEMA 1, rating for added protection
- Safety Extra Low Voltage (SELV) compliant:- complete galvanic isolation allowing the drive to be connected to a PC without the risk of damage















technical data...

COMMANDER SE RATING TABLE

Model	Frame size	Number of input phases	Supply volts ±10%	kW rating	HP rating	100% Output current	150% Output current
SE11200025	1	1	200-240	0.25	0.33	1.5	2.3
SE11200037	1	1	200-240	0.37	0.5	2.3	3.5
SE11200055	1	1	200-240	0.55	0.75	3.1	4.7
SE11200075	1	1	200-240	0.75	1	4.3	6.5
SE2D200075	2	1 or 3	200-240	0.75	1	4.3	6.5
SE2D200110	2	1 or 3	200-240	1.1	1.5	5.8	8.7
SE2D200150	2	1 or 3	200-240	1.5	2	7.5	11.3
SE2D200220	2	1 or 3	200-240	2.2	3	10.6	15.9
SE23200400	2	3	200-240	4	5	17	25.5
SE33200550	3	3	200-240	5.5	7.5	25	37.5
SE33200750	3	3	200-240	7.5	10	28.5	42.8
SE23400075	2	3	380-480	0.75	1	2.1	3.2
SE23400110	2	3	380-480	1.1	1.5	3	4.5
SE23400150	2	3	380-480	1.5	2	4.2	6.3
SE23400220	2	3	380-480	2.2	3	5.8	8.7
SE23400300	2	3	380-480	3	4	7.6	11.4
SE23400400	2	3	380-480	4	5	9.5	14.3
SE33400550	3	3	380-480	5.5	7.5	13	19.5
SE33400750	3	3	380-480	7.5	10	16.5	24.8
SE43401100	4	3	380-480	11	15	24.5	36.8
SE43401500	4	3	380-480	15	20	30.5	45.8

Drive referencing:

Commander SE 2 3 4 00 075

kW rating voltage (200V or 400V)

no. of input phases

frame size

Frame size Rating kW W mm D mm H mm 0.25 - 0.75 102 130 176 0.75 - 4 5.5 - 7.5 260 147 130 2 3 315 190 155 11 - 15 250 390 185

OPTIONS

EMC Filters - footprint/side mount, low earth leaking and low cost types

Universal Keypad - hand held or door mounted, plain text display

'QuicKey' cloning module for rapid, accurate parameter transfer

Fieldbus communications: Profibus DP, Device Net, CAN Open, Interbus-S, CT Net

SE Soft PC Windows™ based setup software for advanced programming

 $+\,10$ to $-10\;V$ analogue input card for bi-directional input reference

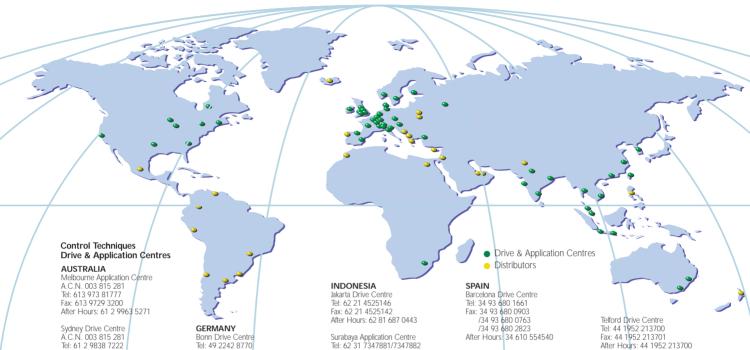
Cable screening clamps - provide a convenient way of connecting supply, motor and control cable screens to earth

Through hole mounting kit - allows heatsink to be put outside of main cubicle

RS232 to 485 (2 wire) converter for connecting between the drive and PC when using SE Soft



driving the world...



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