

# Commander SL

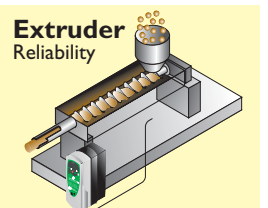
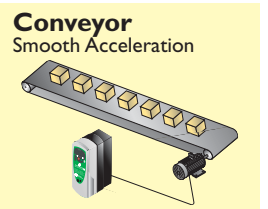
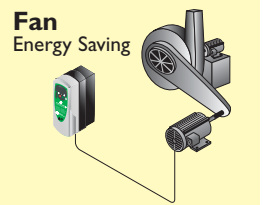
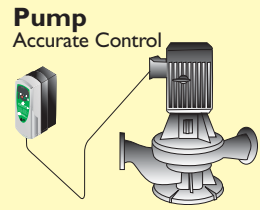
## SIMPLE MOTOR SPEED CONTROL UP TO 5HP

For applications where cost is critical, Control Techniques have designed the Commander SL – Simple and Lite!

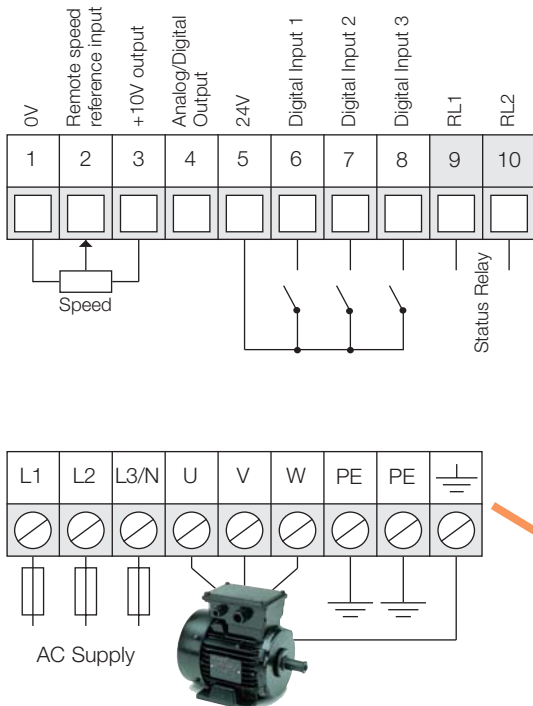
230 and 460VAC, 1ph and 3ph  
1/3 to 5HP



### Typical Applications



### Connected and running within minutes



Panel mounting...  
(DIN-rail up to 2 Hp)

Motor status readout...

Start...

Stop/Reset...

Easy set up instructions...

Clearly marked, practically sized connectors



### Control

- Open loop vector control
- Dynamic motor flux V/Hz for energy saving
- Quadratic motor flux V/Hz for fan and pump optimization
- Speed reference input: 0-10V or 4-20mA
- 3 digital inputs (not stop, run, jog)
- Switching frequency: 3 (default) – 6 – 12 kHz
- Output frequency 0 to 1,500 Hz
- Acceleration and Deceleration ramps
- Positive logic control

### Protection

- Undervoltage, Supply and DC Link overvoltage, Phase loss, Drive overload, Instantaneous overcurrent, Short circuit, Ground fault, Drive thermal, Watchdog, Motor thermal

### General Characteristics

- Maximum overload 150% of rated current for 60s
- Intelligent Thermal Management (ITM) optimizes switching frequency
- 4 preset speeds
- Flying start
- Mains dip ride through
- Automatic no-spin autotune for fast performance optimization

### Programming Option

- Easy commissioning pack, order code 9500-0078 (requires additional CT-COMS for MMS-cable)

### Environment

- IP20
- NEMA 1 rating with optional cover
- Ambient temperature -10 to +40°C @ 3 kHz switching  
Maximum operating temperature 50°C with derate
- Humidity 95% maximum (non-condensing)
- Electromagnetic Immunity complies with EN61800-3 and EN61000-6-3 and 4
- Electromagnetic Emissions complies with EN61000-6-3 (residential) and EN61000-6-4 (industrial) generic standards with optional footprint EMC filter



### Dimensions

Drive size	w		h		d	
	mm	in	mm	in	mm	in
A	75	2.95	140	5.5	145	5.71
B	85	3.35	190	7.48	156	6.14
C	100	3.93	240	9.45	173	6.81

### Ratings

Order code	Size	Motor Power		Supply voltage and frequency	100% continuous output current (A)	150% overload current for 60s (A)
		kW	hp			
SLA1200025	A	0.25	0.33	1 phase 200 to 240VAC ± 10% 48 to 62Hz	1.7	2.6
SLA1200037	A	0.37	0.5		2.2	3.3
SLA1200055	A	0.55	0.75		3.0	4.5
SLA1200075	A	0.75	1.0		4.0	6.0
SLBD200110	B	1.1	1.5	1 or 3 phase 200 to 240VAC ± 10% 48 to 62Hz	5.2	7.8
SLBD200150	B	1.5	2.0		7.0	10.5
SLCD200220	C	2.2	3.0		9.6	14.4

Order Code	Size	Motor Power		Supply voltage and frequency	100% continuous output current (A)	150% overload current for 60s (A)
		kW	hp			
SLB3400037	B	0.37	0.5	3 phase 380 to 480VAC ± 10% 48 to 62Hz	1.3	2.0
SLB3400055	B	0.55	0.75		1.7	2.6
SLB3400075	B	0.75	1.0		2.1	3.2
SLB3400110	B	1.1	1.5		2.8	4.2
SLB3400150	B	1.5	2.0		3.8	5.7
SLC3400220	C	2.2	3.0		5.1	7.7
SLC3400400	C	4.0	5.0	9.0	13.5	

P/N SLBRO-1106  
REV: 11/06