

## AC Controllers

### 582 and 583 Inverters (Up to 2.2kW)

The 582 and 583 provide speed control of delta (240V) connected standard three phase induction motors up to 2.2kW. All operate from a standard 220/240V 50/60Hz single phase supply and above 0.55kW a 220/240V three phase supply can be used. Output is three phase up to 100/120Hz. Advanced 16 bit microprocessor based technology and a unique Space Vector Pulse Width Modulation strategy give quiet operation and a high degree of fault protection. Intelligent monitoring avoids nuisance tripping to ensure trouble free operation. All control terminals are galvanically isolated.

The ambient operating temperature range is 0 to +55°C (derate 1.5% per degree above 40°C) and 85% RH (non-condensing).

Full protection facilities are offered for short circuit (Phase to phase or Phase to Earth), Overvoltage, Motor Stall, Instantaneous or Inverse-time overcurrent. Overload capacity is 150% for 30 seconds.

A range of options is available, factory fitted or for retrofit, which includes external Dynamic Braking, cable gland cover (582 only) and 4-20mA setpoint/ Zero Speed indication. On board operator controls can be ordered with the IP20 versions.

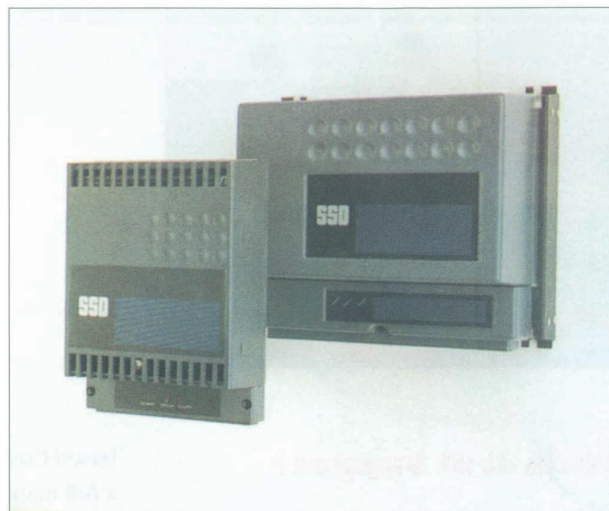
We can offer line fuse assemblies to suit. Enclosed versions of these controllers are also available. AC motors are shown in sections 3 & 4.

#### Product Technical Specification

Type	Nominal Power (kW)	Output Current (A)	weight (kg) IP00/IP20
582/0550/1	0.55	3	1.0/1.9
582/0750/3	0.75	4	1.2/2.1
583/1500/3	1.5	7	4.6/5.3
583/2200/3	2.2	10	4.6/5.3

#### Prices (£)

582/0550/1/0 (IP00)	169
582/0550/1/1 (IP20)	179
582/0550/1/2 (IP20 + Controls)	209
582/0750/3/0 (IP00)	236
582/0750/3/1 (IP20)	246
582/0750/3/2 (IP20 + Controls)	276
583/1500/3/0 (IP00)	299
583/1500/3/1 (IP20)	324
583/1500/3/2 (IP20 + Controls)	354
583/2200/3/0 (IP00)	369
583/2200/3/1 (IP20)	399
583/2200/3/2 (IP20 + Controls)	424
Optional Cable Gland Cover (582 only)	15
4-20mA setpoint / Zero speed relay option	38
5801 Dynamic Braking Control Module (IP00)	108
CZ057146 Dynamic Braking Resistor (IP00)	13
LA058085U014 1 phase fuse assembly 10A	8
LA058085U024 1 phase fuse assembly 20A	10



#### Switch Selectable Features

- Power derating
- Base frequency 50/60Hz
- Torque characteristic:
  - Linear/Fan Law/Linear Weak Field
- Ramp up range: 0.125-4 or 2.5-100 seconds.
- Ramp down range: 0.125-4 or 2.5-100 seconds.
- Stopping mode:
  - Coast/ramp/DC Injection/Ramp plus DC injection

#### Potentiometer Adjustments

- Voltage boost
- Current limit (50-150%)
- Maximum speed
- Minimum speed
- Up ramp
- Down ramp

#### Facilities

- Health relay (583)
- Drive healthy output (582)
- 10V dc reference (10mA)
- 24V dc (20mA)
- Setpoint ramp output
- Trim input
- Direction selection
- DIN rail mounting (IP20 versions)
- Run/Stop/Setpoint terminals
- Power 'On' LED
- Drive healthy LED
- Drive status LED
- DC link charged LED

