

584 Series Inverters

The 584 series of microprocessor controlled fully digital inverters controls standard 3 phase induction motors with power ratings to 75kW within four package sizes. This high specification range offers exceptional performance in a surprisingly small IP20 enclosure and the standardised control philosophy minimises costs of application, commissioning and training.

The 4 pushbutton driven display gives a logical 'lead-through' menu format to ensure rapid no-nonsense integration into the most complex or straightforward applications.

Selectable switching frequencies and a unique PWM modulation strategy reduce audible motor noise to a minimum.

Maximum output frequencies up to 480Hz can be selected and V/F characteristics are widely adjustable to give optimum control of constant torque loads or efficient operation of pumps and fans. All diagnostic, set-up parameter and fault status information is presented in English (or other principal European language) on the 32 character LCD display. Security is possible with the use of passwords.

All 584 series controllers are built to CSA and UL standards, and have isolated control circuits.

The ambient temperature operating range is 0 to +5°C and 85% RH (non condensing).

Full protection facilities are inbuilt, with four levels of operation to ensure motor and drive safety but prevent unnecessary tripping. In the event of power supply loss, the inverter will perform a controlled ramp down to a stop.

The 584 series has an overload capacity of 150% for 30 seconds. Option cards are available that give serial communications, closed loop control and dynamic braking capability.

On all models except the 584 a dc link reactor is supplied as a separate item.

A range of 3 phase line chokes and mains input fuse assemblies are available to suit many of the controllers.

See pages 3 & 6 for enclosed controllers
See pages 20 & 21 for AC motors



Facilities

- Communications ports
- Output frequencies up to 480Hz
- 4 preset speed setpoints
- 2 configurable relays
- Health relay
- 5 programmable stopping modes
- Slip compensation
- 4 programmable skip frequencies
- Thermistor input from motor
- Stack overtemperature trip
- External trip input
- Loss of 4-20mA setpoint trip
- Local/Remote selection
- Jog input
- Trim input
- Torque limit input
- Buffered speed ramp and torque outputs
- Direction input
- Manual or automatic boost
- +10V reference supply (5mA max)
- -10V reference supply (5mA max)
- +24V supply (200mA max)

Options

- Internally fitted dynamic braking module
- RS485/RS422 serial interface
- Closed loop speed control by microtach or encoder feedback.

Product Technical Specification

Controller Type	Nominal Motor Power (kW)*	Max. Current Ratings (A)	Mains Power Supply (V)	Supply Rating (A)	Price
584	0.75	2		3	678
	1.5	4		5.5	739
	2.2	6		8	859
	4.0	10		14	1125
	5.5	12		14	1360
585	7.5	16		18	1690
	11.0	24	380 to 460	25	2084
586	15.0	30	±10%	31	2750
	18.5	39	50/60Hz	40	3400
	22.0	46		46	4084
587	30.0	60		61	4750
	37.5	73		72	5750
	45.0	90		89	RTW
	55.0	110		112	RTW
	75.0	150		152	RTW

*Power rating may be higher for HVAC duty, refer to Sales Office

Ancillary Items

Description	Part Number	Price
Line choke 2.2kW	CO055930	58
Line choke 4.0kW	CO055931	66
Line choke 5.5kW	CO055932	78
Line choke 7.5kW	CO055933	87
Line choke 11kW	CO057283	95
Line choke 15kW	CO057284	115
Line choke 22kW	CO057285	125
Braking Resistor	CZ057146	13
Fuse Assembly 2.2kW	LA058085U014	8
Fuse Assembly 7.5kW	LA058085U024	8

Dimensions

Model	A	B	C	D	E
584	227	315	157	200	300
585	227	466	157	200	450
586	234	522	298	200	500

Primary Adjustments

- Base frequency
- Limit frequency
- V/F characteristic
- Voltage boost
- Current limit motoring
- Current limit regen
- Maximum speed
- Minimum speed
- Up ramp (0.1 to 600s)
- Down ramp (0.1 to 600s)
- It threshold
- Set slip compensation
- Stopping mode
- Switching frequency (3, 6 or 9kHz)
- Set skip frequencies

