

AC DRIVES

601 0.37 to 2.2kW



The 601 series inverters are designed for highly cost effective speed control of standard three phase induction motors from either single phase (nominal 230V) or three phase (nominal 400V) ac supplies. Ratings are available from 0.37 to 2.2kW and each unit is compatible with the Smart Card programming facility that provides simple copying or storage of drive set-up data.

TECHNICAL SPECIFICATION

Power Supply – 220 - 240V $\pm 10\%$ single phase 50 - 60Hz $\pm 5\%$
 380 - 460V $\pm 10\%$ three phase 50 - 60Hz $\pm 5\%$
Ambient – 0 - 40°C, up to 1000m ASL without derating
Overload – 150% for 30 seconds
Output Frequency – 0 - 240Hz
Environmental Protection – IP20

FEATURES

Adjustable Parameters

Minimum speed (0Hz - Max. speed)
 Maximum speed (Min. speed - 240Hz)
 Acceleration ramp (0.1 - 999 seconds)
 Deceleration ramp (0.1 - 999 seconds)
 Current limit (50 - 150%)
 Voltage boost (0 - 25%)
 Stopping mode (coast/ramp/injection)
 Base frequency (30 - 240Hz)
 V/f profile (constant/quadratic torque)
 Setpoint select (0 - 10V/4 - 20mA/preset speeds)
 Digital output select (healthy/running/below min. speed/at speed)
 Jog speed
 Preset speeds 1,2,3 and 4
 Password

Operator Controls

Local/remote
 Start/stop
 Raise/lower speed
 Forward/reverse

Diagnostic Readout

Output frequency
 Output current
 Setpoint frequency

Status Alarms

Overcurrent
 Overvoltage
 Undervoltage
 Heatsink overtemperature
 I x t overload
 4-20mA setpoint loss
 Stall

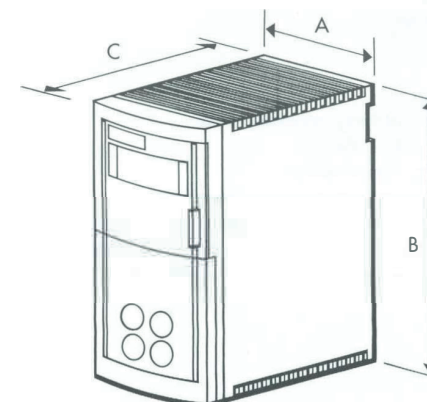
- 230V and 400V ac supplies
- Unique smart card facility
- CE marked and EMC compliant with internal filters
- Integral digital set-up and display
- DIN rail or direct panel mounting
- Internal dynamic brake switch (400V units)



- Set-up cloning in a few seconds
- Guaranteed inverter configuration consistency – ideal for machinery builders
- Simple and convenient logging of set-up configuration – ideal for end users
- Minimal cost – no PC, extra circuit cards or cables required

The unique smart card facility of the 601 series allows the user to copy or 'clone' the set-up parameters of one inverter to another within a few seconds. This is ideal for both OEM's regularly manufacturing similar machines, and end users who require a convenient means of storing the set-up configuration of the drive. All 601's are supplied with the interface plug and software as standard, so all that is required is the inexpensive plug-in reader (which can be used with any number of 601's) and the smart card.

Dimensions



	A	B	C
	72	183	175
Weight 1.1Kg	(230V)		
Weight 1.5Kg	(400V)		



AC DRIVES

601 Smart Card



220 - 240V ($\pm 10\%$) Single Phase

Type	Nominal Power (kW)	Output Current (A)	Prices (£)
601/003/230	0.37	2.2	149
601/005/230	0.55	3.0	159
601/007/230	0.75	4.0	196
601/011/230	1.1	5.5	269
601/015/230	1.5	7.0	284

380 - 460V ($\pm 10\%$) Three Phase

Type	Nominal Power (kW)	Output Current (A)	Prices (£)
601/003/400	0.37	1.5	298
601/005/400	0.55	2.0	310
601/007/400	0.75	2.5	325
601/011/400	1.1	3.5	355
601/015/400	1.5	4.5	365
601/022/400	2.2	5.5	395

	Prices (£)
6011 Smart Card Plug-In Reader (including one card)	32
6012 Pack of 5 Smart Cards	36
CZ389853 Brake Resistor (100W)	13
CH430014 Input Fuse (10A)	4.70
CH430024 Input Fuse (20A)	4.70
CP051602 Fuse Holder (10x38mm)	4.70

Full range of optional line chokes, see pages 60/61.

STANDARDS

CE marked
 EN50081-1 (1992) (EMC emissions, light industrial with internal filter fitted and drive mounted in suitable metal enclosure) - 230V units.
 EN50081-2 (1992) (EMC emissions, heavy industrial with internal filter fitted) - 400V units.
 pr EN50082-2 (1992) (EMC immunity, heavy industrial).
 VDE 0160 (1994)/pr EN50178 (1995) (safety, low voltage directive).
 UL listed to US and Canadian safety standards.