

## 605 0.75 to 15kW

The unique Function Block Programming control scheme of the 605 series provides the total control flexibility required for the most demanding ac drive applications, whilst ensuring less onerous schemes can be simply satisfied straight from the box. In addition the ultra high performance sensorless vector algorithm guarantees a combination of high torque, low speed running. The 605 series is available for use on single or three phase supplies and covers ratings from 0.75 to 15kW.



**HIGH TORQUE SENSORLESS VECTOR PERFORMANCE**

**FUNCTION BLOCK PROGRAMMING**

**CE MARKED AND EMC COMPLIANT WITH INTERNAL FILTERS**

**FIELD BUS PROTOCOL INTERFACES**

**INTELLIGENT POWER MODULE (IPM) TECHNOLOGY**

**SINGLE OR THREE PHASE SUPPLY**

**PARAMETER CLONING**

### TECHNICAL SPECIFICATION

**Power Supply** – 220-240V  $\pm 10\%$  single or three phase and 380-460V  $\pm 10\%$  Three phase, 50-60Hz  $\pm 5\%$

**Ambient** – 0-45°C, (40°C with NEMA 1 cover fitted) up to 1000m ASL without derating

**Overload** – 200% for 0.5 seconds, 150% for 60 seconds

**Output Frequency** – 0-480Hz

**Environmental Protection** – IP20–(NEMA 1 with optional cover)

### FEATURES

#### 6051 Programming/Control Module

Detachable for 605 or front control panel mounting 32 character multi-lingual display Wide viewing angle back lit LCD Easy to use menu structure programming Local control of speed, forward/reverse, run/stop and jog Selectable first-up display LED status indication Password and function lock-out security Parameter Cloning

#### User Facilities

Sensorless vector autotune Internal serial communication 'Technology Box' Standard user application macros Linear or 'S' ramps Raise/lower ramp (digital MOP) Ramp/coast/injection selectable braking modes Selectable dual process ramps and program stop Selectable switching frequency (with quiet pattern algorithm) Local/remote select 8 -pre set speeds 4 -skip frequencies Internal brake switch Jog input Process PID control Spinning load 'flycatching' controlled start Selectable auto restart after trip Slip and underlap compensation Fast connection spring loaded control terminals Configurable inputs/outputs with function

Block programming:

2 analogue inputs	1 analogue output
5 digital inputs	2 digital outputs

# AC DRIVES

## Single Phase Controllers (230V Nominal)

Type	Nominal Power (kW)	Output Current (A)	Package size	Prices	
				With Internal Filter	Without Internal Filter
605/007/230/1	0.75	4.0	A	£417.00	£383.00
605/015/230/1	1.5	7.0	A	£473.00	£431.00
605/022/230/1	2.2	10.5	B	£576.00	£525.00

## Three Phase Controllers (400V Nominal)

Type	Constant Torque Rating with 150% Overload for 60s		Quadratic 'Fan Low' Torque Rating with 110% Overload for 10s		Package Size	With Internal Filter
	Nominal Power (kW)	Output Current A	Nominal Power (kW)	Output Current A		
605/007/400/3	0.75	2.5	-	-	B	£546.00
605/015/400/3	1.5	4.5	-	-	B	£618.00
605/022/400/3	2.2	5.5	-	-	B	£670.00
605/040/400/3	4.0	9.5	-	-	B	£778.00
605/0055/400	5.5	12	7.5	16	C	
605/0075/400	7.5	16	11	23	C	
605/0110/400	11	23	15	31	C	

## Three Phase Controllers (230V Nominal)

Type	Nominal Power (kW)	Output Current (A)	Package Size	Price
605/007/230/3	0.75	4.0	A	£418.00
605/015/230/3	1.5	7.0	A	£473.00
605/022/230/3	2.2	10.5	B	£577.00
605/040/230/3	4.0	16.5	B	£728.00

## Options

Option	Price		
6051 Programming/Control Module	£54.00		
6052 Remote Mounting Bezel and 3m Lead	£28.00		
<b>Communication Technology Boxes</b>			
	<b>605A and B</b>	<b>605C</b>	
Profibus	6053/PROF	6055/PROF	£135.00
Modbus/RS422/RS485/EIBisynch	6053/EI00	6055/EI00	£345.00
Link	6053/LINK	6055/LINK	£210.00
Devicenet	6053/DNET	6055/DNET	£98.00
Encoder feedback	AH467407 U001 (Board)	6054/HTL	£13.00
CZ389853 Brake Resistor (100W)			£46.00
CZ463068 Brake Resistor (200W)			£85.00
ConfigEd Lite+ 'windows' graphical configuration software (see page 38)			

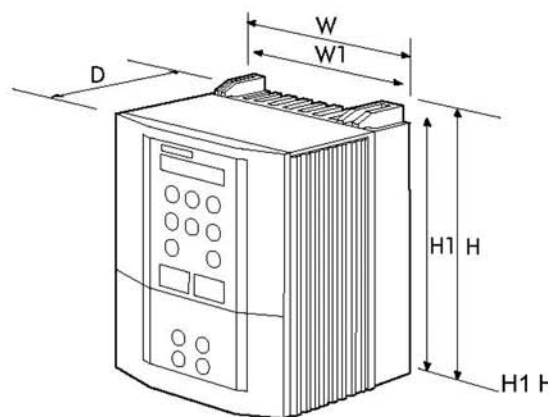
Full range of optional EMC filters and line chokes see pages 34/35. Brake resistor details see page 33.

## Dimensions

Package Type	W	H	D	W1	W2	D1	Weight (Kg)
A	155	198	154.5	109	114	173.5	3.0
B	177	233	181	129	129	223	4.3
C	201	365	208	150	150	335	8.8

## STANDARDS

CE marked  
 EN61800-3 with integral filter (frame A&B) or external filter (frame C)  
 EN50178 (safety, low voltage directive)  
 UL listed to US and cUL listed to Canadian safety standards



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