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

FIELDBUS PROTOCOL INTERFACES

INTELLIGENT POWER MODULE (IPM) TECHNOLOGY

SINGLE OR THREE PHASE SUPPLY

PARAMETER CLONING

TECHNICAL SPECIFICATION

Power Supply – 220-240V ±10% single or three phase and 380-460V±10% Three phase, 50-60Hz ±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

Telephone : **01903 737000** Fax : **01903 737100**

Single Phase Controllers (230V Nominal)

Type	Nominal Power (kW)	Output Current (A)	Package size	Prices (£) With Internal Filter	Prices (£) Without Filter
605/007/230/1	0.75	4.0	A	298	273
605/015/230/1	1.5	7.0	A	338	308
605/022/230/1	2.2	10.5	B	412	375

Three Phase Controllers (400V Nominal)

Type	Constant Torque Rating with 150% Overload for 60s		Quadratic 'Fan Law' Torque Rating with 110% Overload for 10s			Prices (£)	
	Nominal Power (kW)	Output Current A	Nominal Power (kW)	Output Current A	Package Size	With Internal Filter	Without Filter
605/007/400/3	0.75	2.5	-	-	B	420	395
605/015/400/3	1.5	4.5	-	-	B	475	445
605/022/400/3	2.2	5.5	-	-	B	515	478
605/040/400/3	4.0	9.5	-	-	B	598	558
605/0055/400	5.5	12	7.5	16	C	Ext	795
605/0075/400	7.5	16	11	23	C	Ext	940
605/0110/400	11	23	15	31	C	Ext	1290

Three Phase Controllers (230V Nominal)

605/007/230/3	0.75	4.0	-	-	A	298	273
605/015/230/3	1.5	7.0	-	-	A	338	308
605/022/230/3	2.2	10.5	-	-	B	412	375
605/040/230/3	4.0	16.5	-	-	B	520	480

Options

			Prices (£)
6051 Programming/Control Module			54
6052 Remote Mounting Bezel and 3m Lead			28
Communication Technology Boxes	605A and B	605C	
Profibus	6053/PROF	6055/PROF	210
Modbus/RS422/RS485/EIBisynch	6053/EI00	6055/EI00	135
Link	6053/LINK	6055/LINK	345
Devicenet	6053/DNET	6055/DNET	210
Encoder feedback	AH467407 U001 (Board)	6054/HTTL	98
CZ389853 Brake Resistor (100W)			13
CZ463068 Brake Resistor (200W)			46
ConfigEd Lite+ 'windows' graphical configuration software (see page 58)			85

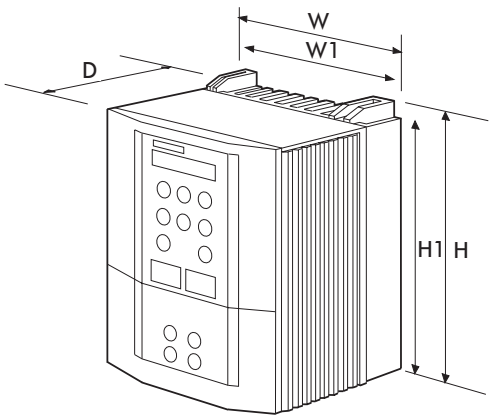
Full range of optional EMC filters and line chokes see pages 54/55.
Brake resistor details see page 53.

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 c UL us listed to Canadian safety standards



W2 Lower Mounting Centres