Specification and features

Input Power	Input Voltage V_{in}	200V-240V ± 10% 1/3 PH 380V-480V ± 10% 3PH
	Input Frequency	48Hz-62Hz
	Maximum Supply Imbalance	≤3%
Output Power	Output Voltage	0-V_{in}
	Output Frequency	0Hz-300Hz
Main Performance Functions	Voltage Control	Open loop vector, V to F
	Switching Frequency	1kHz-15kHz
	Starting Torque	0.5Hz: 100% rated torque 1Hz: 150% rated torque
	Torque Accuracy	≤2%
	Reference Accuracy	Digital: 0.01Hz Analogue: 0.1% x Maximum frequency
	Acceleration and Deceleration	0.1s to 3600min
	Voltage boost	0.1%-30.0%
	Overload	Heavy duty: 150% for 60s Normal duty: 110% for 60s
	V/F	4 selectable V to F curves including a square law curve for fan and pump applications
	DC Injection	Injection frequency: 0.0%-20.0% maximum frequency Injection current: 0.0%-100.0% rated current Injection time: 0.0s-60.0s
	Motor flux braking	Onboard motor flux braking that can eliminate the need for external braking resistors.
	Dynamic braking	As standard (external braking resistors required)
	Jog	Jog frequency: 0.0-50.0Hz
	Presets	16 Preset speeds selected by control terminals
	Mains loss ride through	Onboard mains loss ride through function
	Simple PLC	Onboard PLC
	Length Control	Winding control
	PID Control	As standard
Control Terminals	Reference source	Digital: Keypad, motorized pot (E-Pot), pulse, comms Analogue: AI1: 0V-10V, 0(4) mA-20mA AI2: 0V-10V
	Operating mode	Keypad, Control terminal, Serial Comms
	Digital Input Terminals	DI1-DI7: Programmable terminals
	Digital Output Terminals	DO1 and DO2: Programmable terminals
	Analogue Output Terminal	AO1: programmable terminal, 0-10V
	Status Relays	2 programmable relays, contactor ratings: AC: 250V, 2A DC: 30V, 1A
Comms	Connection	2 terminals and RJ485 port
	Protocol	Modbus RTU
Environmental Conditions	Altitude	1000m rated 1000m-3000m, 1% current de-rating per 100m
	Operating Temperature	-10°C to +40°C
	Storage Temperature	−40°C to +70°C
Protection	Protective features	Output short circuit, output over current, motor over load, over voltage, under voltage, phase loss, over heat, external trip
	Trips	Last 10 trips stored onboard
Quality Standards	IEC/EN 61800-5-1	Adjustable speed electrical power drive systems - Part 5-1
	IEC/EN 61800-3	Adjustable speed electrical power drive systems - Part 3
	UL 508C	Power Conversion Equipment
	GB/T 12668.2	Adjustable speed electrical power drive systems - part 2
	GB 12668.3	Adjustable speed electrical power drive systems - part 3
	IEC 60529	Degrees of protection provided by enclosures (IP Code)
	CE	CE mark held

Frame Size	W (mm)	H (mm)	D (mm)	Mounting Holes (mm)	Weight (kg)
A	97.4	202.4	148.8	5	1.4
B	142.2	220.4	155.5	5	2.2
C	163.1	300	176.8	6	4.5
D	238.5	370	189	7	8.8
E	238.5	435.5	200.3	7	12.1
F	355.5	573	315.5	10	40
G	445.6	725	355	10	63

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HD700 AC Drive

Great performance and an abundance of features in an easy to use, robust and reliable package.

When the HD700 was being designed, the design brief was simple; to make “The easiest drive to use in the world”, without losing any of the functionality needed in today’s market.

With just 19 parameters as default allowing the majority of set up’s to be done from group 0, and an abundance of features the HD700 is great for both simple and more advanced applications alike.

This remarkable ease of use makes installation very quick, and cost effective. Great for OEM’s and end users, this drive has it all!

The British design, and Chinese manufacturing means that the HD700 can offer all of the features and quality standards required within the European marketplace, at a competitive price.

HD700 – 4 0 T 00550

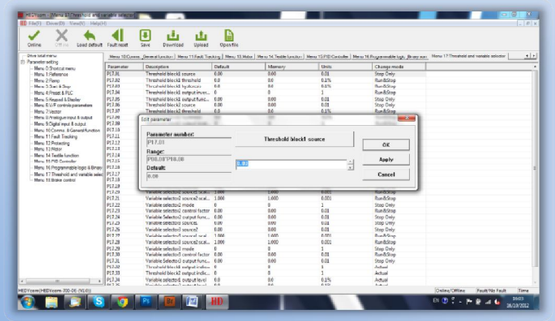
- Family: HD700
- Supply Voltage: 2: 200V; 4:380V
- Brake transistor: 0: Fitted; 1: Not Fitted
- Power rating: 00040 = 0.4kW; 02200 = 22kW
- No of Input Phases: D = 1 or 3 PH; T = 3 PH

200-240V Single or three phase input:

Model Number	Normal Duty		Heavy duty		Frame Size
	Rated Output Current (A)	Motor Power (kW)	Rated Output Current (A)	Motor Power (kW)	
HD700-20D00040	-	-	2.8	0.4	A
HD700-20D00075	-	-	5	0.75	A
HD700-20D00150	-	-	8	1.5	A
HD700-20D00220	-	-	11	2.2	B
HD700-20D00400	-	-	17.6	4	C

380-480V Three phase input:

Model Number	Normal Duty		Heavy duty		Frame Size
	Rated Output Current (A)	Motor Power (kW)	Rated Output Current (A)	Motor Power (kW)	
HD700-40T00075	-	-	2.5	0.75	A
HD700-40T00150	-	-	4.2	1.5	A
HD700-40T00220	-	-	5.8	2.2	B
HD700-40T00400	-	-	9.5	4	B
HD700-40T00550	-	-	13	5.5	C
HD700-40T00750	-	-	17	7.5	C
HD700-40T01100	32	15	25	11	D
HD700-40T01500	38	18.5	32	15	D
HD700-40T01850	46	22	38	18.5	E
HD700-40T02200	60	30	46	22	E
HD700-40T03000	75	37	60	30	F
HD700-40T03700	96	45	75	37	F
HD700-40T04500	125	55	96	45	F
HD700-40T05500	156	75	125	55	F
HD700-40T07500	180	90	156	75	F
HD700-40T09000	210	110	180	90	G



Available options

- HD Com: Free PC based commissioning software
- HDOM-232: RJ45 to RS232 converter
- HDOM-USB: RJ45 to USB converter
- Keypad pallet: through panel mounting arrangement for the drives keypad

Typical applications:

- Fans
- Pumps
- Conveyors

- Packaging
- Textile
- Cranes

Key Features:

- Unprecedented ease of use
- Abundance of features
- All the I/O you are ever likely to need
- Great removable LED keypad as standard allows easy navigation around the parameter’s
- Simple installation and set up
- Robust and reliable design
- Onboard EMC filter and dynamic braking as standard
- Modbus RTU communications on board
- HEDYcom PC commissioning software available for free

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