

Specification and features

Input Ratings	Supply Voltage	200V-240V \pm 10% 1 or 3 Phase 200V models 380V-480V \pm 10% 3 Phase 400V models
	Supply Frequency	48Hz-62Hz
	Maximum Supply Imbalance	\leq 3%
Output Ratings	Output Voltage	0-Input voltage
	Output Frequency	0Hz-300Hz, 0.1Hz resolution
	Overload Capacity	150% for 60 seconds (Heavy duty) 110% for 60 seconds (Normal duty)
	Typical Efficiency	\sim 98%
Main Performance Functions	Control Method	V to f (default) or Open Loop Vector
	PWM Switching Frequency	1kHz-15kHz
	Stopping Modes	Ramp to stop or coast to stop
	Motor Flux Braking	Motor flux braking (can eliminate the need for an external braking resistor in low inertia stopping applications)
	Dynamic Braking	Onboard braking transistor as standard (external braking resistors required)
	DC Injection Braking	DC injection braking on start and/or stop
	Acceleration and Deceleration Ramps	0.1s to 3600 minutes
	V/f Curves	Linear and quadratic V to f curves for constant torque and variable torque (fan/pump) applications
	Energy Optimisation	Output voltage dependant on motor load
	Jog / Inch Speeds	Jog forward and Jog reverse speeds selectable by control terminals. Jog frequency: 0.0-50.0Hz
	Preset Speeds	16 Preset speeds selected by control terminals
Control Terminals (Analogue & Digital I/O)	PID Control	Onboard PID control loop
	Speed Reference Input Types	Digital: Keypad, motorized potentiometer (E-Pot), pulse/frequency, serial communications Analogue: AI 1: 0V-10V, 0(4)-20mA AI 2: 0V-10V
Serial Communications	Operating modes	Keypad control (default), terminal control, serial communications control (Modbus RTU)
	Digital Input Terminals	DI 1-DI 7: Programmable digital input terminals (0-24VDC)
	Digital Input Logic	Positive (default) and negative logic
	Digital Output Terminals	DO 1 and DO 2: Programmable digital output terminals (0-24VDC)
	Analogue Output Terminal	AO 1: Programmable analogue output terminal (0-10V)
Environmental Conditions	Status Relays	2 programmable relays. contact ratings: AC: 250V, 2A DC: 30V, 1A
	Connection	2 screw terminals and/or RJ45 port
Protection	Protocol	Modbus RTU
	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
Standards	Protective features	Output short circuit, output over current, motor over load, over voltage, under voltage, input & output phase loss, heatsink and motor over temperature, external trip
	Trip Memory	Last 10 trips stored onboard
	EN 61800-5-1: 2007	Adjustable speed electrical power drive systems - Part 5-1. Safety requirements – Electrical, thermal and energy
	EN 61800-3: 2004	Adjustable speed electrical power drive systems - Part 3. EMC requirements and specific test methods
	EN 50581:2012	Technical documentation for the assessment of electrical and electronic products with respect to restriction of hazardous substances
Standards	UL 508C	Power Conversion Equipment (up to and including 22kW)
	Also complies with	Low Voltage Directive 2006/95/EC, The Electromagnetic Compatibility (EMC) Directive 2004/108/EC, The RoSH2.0 Directive 2011/65/EU and the CE Marking Directive 93/68/EEC.
	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

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ID700 AC Drive

0.4kW to 90kW 200-400Vac



ID700 AC Drive

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

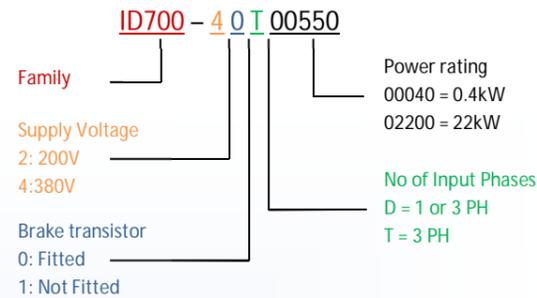


When the ID700 was being designed, the design brief was simple; to make "The easiest drive to use in the world", without losing any of the functionality needed in today's market.

With just 20 parameters as default allowing the majority of set-ups to be done from Group 0, and an abundance of features the ID700 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 ID700 can offer all of the features and quality standards required within the European marketplace, at a competitive price.



230V Single or three phase input, 0-230V three phase output:

Model Number	Normal Duty		Heavy duty		Frame Size
	Rated Output Current (A)	Motor Power (kW)	Rated Output Current (A)	Motor Power (kW)	
ID700-20D00040	-	-	2.8	0.4	A
ID700-20D00075	-	-	5	0.75	A
ID700-20D00150	-	-	8	1.5	A
ID700-20D00220	-	-	11	2.2	B
ID700-20D00400	-	-	17.6	4	C

400V Three phase input, 0-400V three phase output:

Model Number	Normal Duty		Heavy duty		Frame Size
	Rated Output Current (A)	Motor Power (kW)	Rated Output Current (A)	Motor Power (kW)	
ID700-40T00075	-	-	2.5	0.75	A
ID700-40T00150	-	-	4.2	1.5	A
ID700-40T00220	-	-	5.8	2.2	B
ID700-40T00400	-	-	9.5	4	B
ID700-40T00550	-	-	13	5.5	C
ID700-40T00750	-	-	17	7.5	C
ID700-40T01100	32	15	25	11	D
ID700-40T01500	38	18.5	32	15	D
ID700-40T01850	46	22	38	18.5	E
ID700-40T02200	60	30	46	22	E
ID700-40T03000	75	37	60	30	F
ID700-40T03700	96	45	75	37	F
ID700-40T04500	125	55	96	45	F
ID700-40T05500	156	75	125	55	F
ID700-40T07500	180	90	156	75	F

Available options

- IDCom: Free PC based commissioning software
- IDOM-232: RS232 to RJ45 converter
- IDOM-USB: USB to RJ45 converter
- IDOM-IO: Extra IO option module
- 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
- Removable LED keypad as standard allows easy navigation around the parameters
- Simple installation and set-up
- Robust and reliable design
- Integral EMC filter and dynamic braking as standard
- Modbus RTU communications as standard
- IDcom PC commissioning software available for free

