

actual size



DIN rail or screw mountable

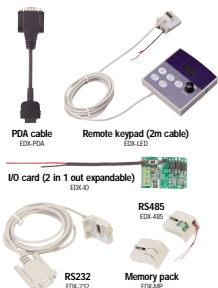


programming options  
remote keypad, PDA or PC



space saving  
side-by-side installation

## accessories



**UK**  
IMO Precision Controls Limited  
1000 North Circular Road  
Staines Green, London W62 7JP  
United Kingdom  
Tel: +44 (0)20 8452 6444  
Fax: +44 (0)20 8452 2274  
Email: imo@imopc.com  
Web: www.imopc.com

**Germany**  
IMO Deutschland  
Für weitere Einzelheiten zu IMO  
Agenten und Distributoren in Ihrer  
Nähe schreiben Sie bitte an E-mail  
an folgende Adresse:  
imo@imopc.com

**France**  
IMO Jozebrun Automation SAS  
Avenue du Mondial, St Athéna IV  
13700 La Crolle Cedex, France  
Tel: 04 42 83 82 00  
Fax: 04 42 83 82 75  
Email: imo@imopc.fr  
Web: www.imopc.fr

**Italy**  
IMO Italia  
Via A. Volta 1277a  
50133 Firenze, Italia  
Tel: 800 782811  
Fax: 800 782812  
Email: imo@imopc.it  
Web: www.imopc.it



Cam Switches  
On Terminals  
On Terminals  
On Terminals  
Encoders  
Feedback sensors  
Encoder & Servo Drives  
SCL & RCL  
Motor Control Blocks  
Motor Control Gear  
Panel Meters  
Signal Conditioning  
Sensors  
Timers  
Transformers & Power Supplies



Drive Acquisition & Control  
Drives  
High Speed Servomotors  
Linear Servos  
Pneumatic Switches  
PLC  
Priority Switches  
Temperature Controls



Lightpaths  
Safety Limit Switches  
Safety Motors



Lightpaths  
Safety Limit Switches  
Safety Motors



Linear Servos  
Pneumatic Switches  
Priority Switches  
PLC  
Signal Conditioners  
Temperature Controls



Audio Blocks  
Chip on Board  
Digital Input Drivers  
LED & V-Hub Displays  
PCB Terminal Blocks  
Pneumatic Actuators  
Relays, power  
Relays, signal  
Switches

## IMO

### options and ordering codes

EDX	075	-	4	3	-	E
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Drive

Power (kW)	0.2	0.5	1.5	2.2
0.2	0.5	1.5	2.2	
0.5	1.5	2.2		
1.5	2.2			
2.2				

Voltage	100V	200V	400V	600V
100V	1	2	4	6
200V	1	2	4	6
400V	1	2	4	6
600V	1	2	4	6

Example shown:  
EDX-075-43-E = 0.75kW, 400V, 3 phase with integrated EMC filter

Option	No Filter	EMC Filter built in
EMC Filter		

Option	IP20	IP54	IP65
IP			
Option	Ac M plus	W45	control switches
Control Switches			

## iDrive

AC variable speed 'economy' drives  
0.2-2.2kW



## IMO



Cam Switches  
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Lightpaths  
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Relays, power  
Relays, signal  
Switches



# iDrive: ultra-low cost, micro inverters for small AC motors 0.2-2.2kW...

iDrive is the ultimate low-cost variable speed ac drive from the home of the world Famous Jaguar range.

Ideal for small 3-phase motor control applications requiring flexibility, reliability and precision, iDrive is available from stock in single phase 230V or three phase 400V input models.

iDrives use only twelve basic set-up parameters for standard out-of-the-box operation, but for higher performance applications the user can unlock and use the hidden advanced parameter set.

An internal First Environment EMC filter makes the iDrive suitable for virtually every industrial, commercial or domestic application without the need for additional equipment.

Compact, powerful, and user friendly. There is really only one small ac drive that you need to ask for... iDrive from IMO

- Integrated Class B EMC filter
- CE and UL/CUL approvals
- Easy to install
- Basic/Advanced set-up
- DIN rail mounting as standard
- 1-phase and 3-phase variants
- V/F and sensorless vector modes
- High starting torque
- PID control as standard
- Keypad potentiometer
- 8 pre-set speeds
- DC braking as standard
- IFS/NEMA 4 models available
- Side-by-side mounting
- Thermoslastic cooling fan
- Comprehensive inverter and motor protection functions
- Remote keypad options with full copy facility
- Optional multi-function card
- PNP or NPN selectable
- RS232/485 option cards
- Modbus RTU/ASCII
- PC software (option)
- PDA (PDA) software (option)



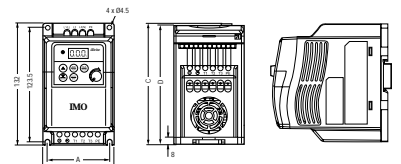
## specification

Model data	Special Order only				Special Order only				Special Order only															
	110V/110				220V/110				220V/230				440V/380											
Horsetpower (hp)	0.25	0.5	1	2	3	3	3	3	0.25	0.5	1	2	3	3	3	3	0.25	0.5	1	2	3	3	3	3
Normal Motor Capacity (kW)	0.2	0.4	0.75	1.5	2.2	3.3	3.3	3.3	0.2	0.4	0.75	1.5	2.2	3.3	3.3	3.3	0.2	0.4	0.75	1.5	2.2	3.3	3.3	3.3
Rated Output Current (A)	1.7	3.1	4.2	1.7	3.1	4.2	7.5	10.5	1.7	3.1	4.2	7.5	10.5	2.3	3.8	5.2								
Rated Capacity	0.53	0.88	1.60	0.53	0.88	1.60	2.90	4.00	0.53	0.88	1.60	2.90	4.00	1.7	2.9	4.0								
Max. Input Voltage	110-120V ±10%, -15% (50/60Hz)				110-200-240V ±10%, -15% (50/60Hz)				38-200-240V ±10%, -15% (50/60Hz)				38-380-480V ±10%, -15% (50/60Hz)											
Max. Output Voltage	38-110V 1 input				38-110V 1 input				38-110V 1 input				38-110V 1 input											
Input Current (A)	7.1	12.2	17.9	4.3	5.4	10.4	15.5	21	3.0	4.0	6.4	9.4	12.2	3	4.8	6.6								
Net Weight (kg)	0.62	0.68	0.72	0.71	0.73	0.73	1.25	1.3	0.61	0.61	0.66	0.99	1	1.68	1.7	1.73								
Armature memory power loss time (seconds)	1	1	1	1	1	1	2	2	1	1	1	2	2	2	2	2								
Frame size (see dims)	1	1	1	1	1	2	2	2	1	1	1	2	2	2	2	2								
Enclosure	IP20				IP20				IP20				IP20											

## Common specification

Power Source	110V model: 100-120V ±10% / -15%, 50/60Hz 220V model: 200-240V ±10% / -15%, 50/60Hz 440V model: 380-480V ±10% / -15%, 50/60Hz
Control Mode	Selectable V/F or Vector control (starting torque: 100% / 3Hz)
Frequency Range	0-200Hz
Frequency Setting Resolution	Digital: 0.1Hz (0-99Hz) / HZ100-200Hz; Analogue: 0.4Hz / 4Hz
Frequency Setting Method	Set with ▲ keys or the V/F on the keypad. Alternatively use the UP/DOWN (Motorised Pot) or the A/B signal
Display Functions	7 segments: 3 Display frequency / DC voltage / output voltage / output current / reverse parameters error code / program version / PID feedback
External Frequency	1. External variable resistor (0-10V / 0-20mA / 2-10V / 4-20mA) 2. Motorised Pot (0/PID/0V)
Output frequency limit function	Upper/lower frequency limits and two stage prohibited frequencies
Carrier Frequency	4-16kHz (factory setting: 16kHz; 10kHz or more DC-braking)
Acc/Dec control	0.1-999 scc; two-stage acc./dec. time could be changed by RFL/ACC/DEC; disable
DI (Digital Input)	NPN/PPV logic <sup>1</sup> four points; two points optional S1-S4; Built-in S5-S6 (option)
DO (Digital Output)	1 output <sup>1</sup> 1 point (10 terminals) - setting to Multi-function Output <sup>2</sup> Optional Multi-function Photo Output <sup>3</sup> 1 point (open collector 24V, 60mA)
AI (Analogue Input)	Setting to speed command and PID feedback signal/MHT S7 (PPV Mode)
Other Functions	Thermoslastic power loss restart, Speed search, fault restart, DC Brake Torque boost, 2/3 wire control and PID function
Communication Control	RS-485 Option Card; Modbus; RTU/ASCII mode; 4800-38400 bps max; 254 stations; PC/PDA software link
Humidity	0-95% RH (relative humidity non-condensing)
Overload Protection	150% / 1 min
Operating Temperature	-30 °C to +50 °C (in distribution) IP20 -10-40 °C IP16
Other Protection Function	Over current, over voltage, low voltage, overheat, maximum power loss and motor stall prevention for acceleration/deceleration/operation, short-circuit protection for output/grounding fault, reverse restriction, restrictions for direct start after power up and error recovery
International Conformance	UL/CUL, CE
EMC	Integrated Class B (to EN61800-3 / First Environment, unrestricted sales)

## dimensions (mm) and connections



Frame 1: 110V/220V and 38-220V models up to 0.73kW  
Frame 2: 110V/220V and 38-220V from 1.5kW and all 38-440V models

