

AC drive VersiDrive i ... /E3/3E3 up to 22kW 4.15

**Features:**

- small design
- easy programming and connection
- precise and reliable control for IE2, IE3 & IE4 motors
- induction motors, PM motors, brushless DC motors, synchronous reluctance motors
- 14 parameters for basic settings
- precise digital control via push of a button
- application macros (industrial-, pumps- and fan operation)
- PTC input
- max. rotating field frequency 500Hz
- integrated braking chopper (up from 2,2kW)
- degree of protection IP20
- integrated mains filter
- serial communication with Modbus RTU and CANopen



AC drive  
**VD i 037 ... 220/E3**  
**VD i 075 ... 2200/3E3**  
 

**Function:**

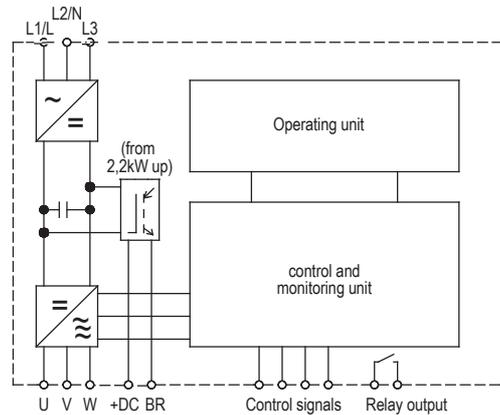
- control and setpoint entry via terminals, operating unit and Bus-systems
- PWM clock frequency 4 - 32kHz
- DC braking
- potential-free control and signalling contacts
- 150% overload for 60s
- detailed trouble check via parameter „0“
- integrated PI controller
- U/f characteristics control
- Open Loop vector speed control
- Open Loop speed control for synchronous motors
- BLDC vector control
- synchronous reluctance motor

**Typical Application:**

- pumps
- grinding machines
- ventilators
- textile machines
- wood working machines
- conveying systems
- printing machinery
- packaging machines

**Options: (please see accessories)**

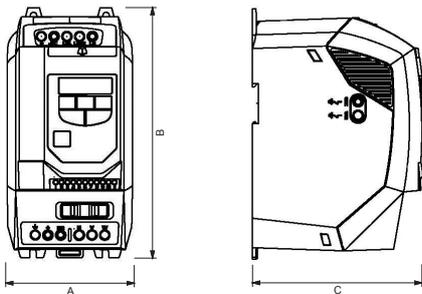
- memory stick with copying function
- remote control module (LED or OLED display)
- RJ45 cable and cable splitter
- braking resistors
- software for parameterization



Typical designation	VD i .../E3				VD i.../3E3									
	037	075	150	220	075	150	220	400	550	750	1100	1500	1850	2200
motor shaft power / kW	0,37	0,75	1,5	2,2	0,75	1,5	2,2	4,0	5,5	7,5	11,0	15,0	18,5	22
mains voltage according to DIN EN 50160 (IEC 38)	single-phase 200-240V, 48-62Hz				three-phase 380-480V, 48-62Hz									
output current / A	2,3	4,3	7	10,5	2,2	4,1	5,8	9,5	14	18	24	30	39	46
order number: 21300. ...	23037	23075	23150	23220	40075	40150	40220	40004	40005	40007	40011	40015	40018	40022
recommended mains filter (class C1)	27012.24016		27012.24030		27114.48006		27114.48016		27114.48030			27114.48055		

Technical data	VD i ... /E3				VD i ... /3E3									
	0,37	0,75	1,5	2,2	0,75	1,5	2,2	4,0	5,5	7,5	11,0	15,0	18,5	22,0
motor shaft power / kW	0,37	0,75	1,5	2,2	0,75	1,5	2,2	4,0	5,5	7,5	11,0	15,0	18,5	22,0
mains voltage according to DIN EN 50160 (IEC 38)	single-phase 200-240V, 48-62Hz				three-phase 380-480V, 48-62Hz									
output current / A	2,3	4,3	7	10,5	2,2	4,1	5,8	9,5	14	18	24	30	39	46
peak current for 1min./ A	3,5	6,5	10,5	15,7	3,3	6,2	8,7	14,3	21	27	36	45	58	69
control functions														
frequency setting range	0 – 500Hz													
torque boost	sensorless vector speed control, PM vector control, BLDC vector control, synchronous reluctance motor													
ramp-up and ramp-down time	0 ... 600s													
frequency setpoint	potentiometer $\geq 1k\Omega$ , analogue signals, keypad, fixed frequencies, motor potentiometer, Modbus RTU, CANopen													
ambient / storage temperature	-10 ... 50°C, -40 ... 60°C													
design size	1			2	1		2	3			4			
weight / kg	1			1,7	1		1,7	3,2			9,1			

## Dimensions:



size	A	B	C
1	82	173	123
2	109	221	150
3	131	261	175
4	171	420	212

All dimensions indicated in mm

## Connection Diagram:

