

AC drive VersiDrive i E3/3E3/IP66/IP66S [0,37 – 7,5kW] 4.03

Features:

- small design for IP66 unit
- 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)
- integrated mains filter
- serial communication with Modbus RTU and CANopen



AC drive
VD i E3/IP66/IP66S [0,37 – 2,2kW]
VD i 3E3/IP66/IP66S [0,75 – 7,5kW]



Function:

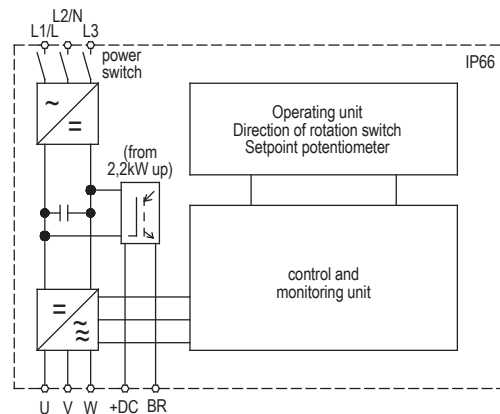
- control and setpoint entry via terminals, operating unit and Bus-systems
- PWM clock frequency 4 - 32kHz
- DC braking
- potential-free control and signalling contacts
- 150% overload for 60s
- detailed trouble check via parameter „0“
- integrated PI controller
- U/f characteristics control
- Open Loop vector speed control
- Open Loop speed control for synchronous motors
- BLDC vector control
- synchronous reluctance motor
- „IP66S“ model with potentiometer, right left switch and line disconnecter

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 Application:

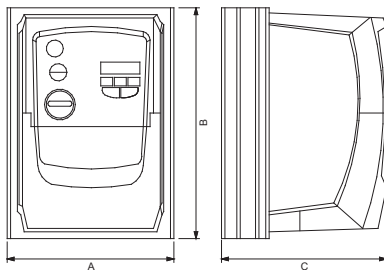
electric pumps, heat pumps, vacuum pumps
ventilators and fans, travelling cranes, extraction systems
compressors, stirrers, centrifuges, saws
conveyors, woodworking machines
grinding machines, textile machines
packaging machines, printing machines
others



Typical designation	VD i ... /E3/IP66/IP66S				VD i ... /3E3/IP66/IP66S					
	037	075	150	220	075	150	220	400	550	750
motor shaft power / kW	0,37	0,75	1,5	2,2	0,75	1,5	2,2	4,0	5,5	7,5
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
order number with switch IP66S: 21301. ...	23037	23075	23150	23220	40075	40150	40220	40004	40005	40007
order number without switch IP66: 21302. ...	23037	23075	23150	23220	40075	40150	40220	40004	40005	40007

Technical data	VD i ... /E3/IP66/IP66S				VD i ... /3E3/IP66/IP66S					
	0,37	0,75	1,5	2,2	0,75	1,5	2,2	4,0	5,5	7,5
motor shaft power / kW	0,37	0,75	1,5	2,2	0,75	1,5	2,2	4,0	5,5	7,5
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
peak current for 1min. / A	3,5	6,5	10,5	15,7	3,3	6,2	8,7	14,3	21	27
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 ... 40°C, -40 ... 60°C									
design size	1			2		1		2		3
weight / kg	2,8			4,6		2,8		4,6		7,4

Dimensions:



size	A	B	C
1	161	232	179
2	188	257	186,5
3	210,5	310	229

All dimensions indicated in mm

Connection Diagram:

