

Features:

- small design for IP66 unit for outdoor use
- 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



Frequenzumrichter
VD i 037 ... 220/E3/IP66ODS
VD i 075 ... 2200/3E3/IP66ODS



Function:

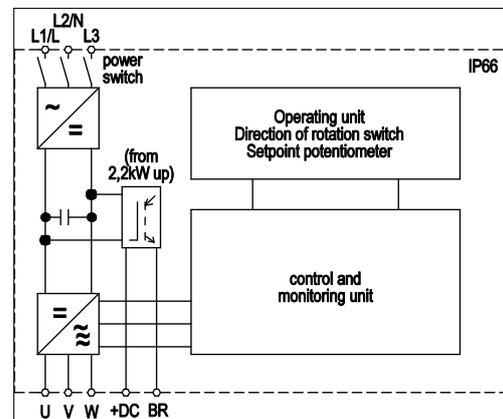
- control and setpoint entry via terminals, operating unit and Bus-systems
- PWM clock frequency 4 - 32kHz
- DC braking
- potential-free control and signalling contacts
- 150% overload for 60s
- detailed trouble check via parameter „o“
- integrated PI controller
- U/f characteristics control
- Open Loop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

Typical Application:

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

Options: (please see accessories)

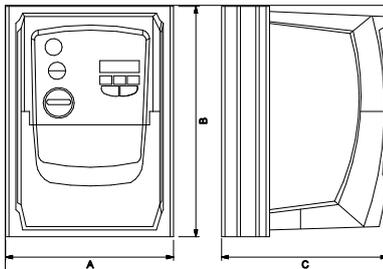
- memory stick with copying function
- remote control module (LED or OLED display)
- RJ45 cable and cable splitter
- braking resistors
- software for parameterization
- AC drive without switch (upon request)



Typical designation	VD i .../E3/IP66ODS								VD i .../3E3/IP66ODS							
	motor shaft power / kW	037	075	150	220	075	150	220	400	550	750	1100	1500	1850	2200	
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 with switch IP66ODS: 2l312. ...	23037	23075	23150	23220	40075	40150	40220	40004	40005	40007	40011	40015	40018	40022		

Technical data	VD i .../E3/IP66ODS				VD i .../3E3/IP66ODS									
	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	22,0
mains voltage according to DIN EN 50160 (IEC 38)	single-phase 200-240V, 48-62Hz				three-phase 380-480V, 48-62Hz									
output voltage / 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 >= 1kΩ, 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	2,8		4,6		2,8		4,6		7,4		10,0			

Dimensions:



size	A	B	C
1	161	232	162
2	188	257	182
3	210,5	310	238
4	240	360	275

All dimensions indicated in mm

Connection diagram:

