

Features:

- ☒ degree of protection IP55 up to 160kW
- ☒ U/f-characteristics control
- ☒ open loop vector control (200% start torque)
- ☒ closed loop encoder control (plug-in)
- ☒ open und closed loop control for synchronous motors
- ☒ PTC-input
- ☒ max. rotating field frequency 500Hz
- ☒ safety stop according to IEC 61508 SIL2
- ☒ integrated braking chopper
- ☒ built-in DC reactor as standard
- ☒ integrated mains filter
- ☒ integrated Modbus RTU module and CANbus



AC drive
VD i 3Pro/IP55 [11 – 160kW]
VD i 3Pro/IP20 [200 – 250kW]
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Function:

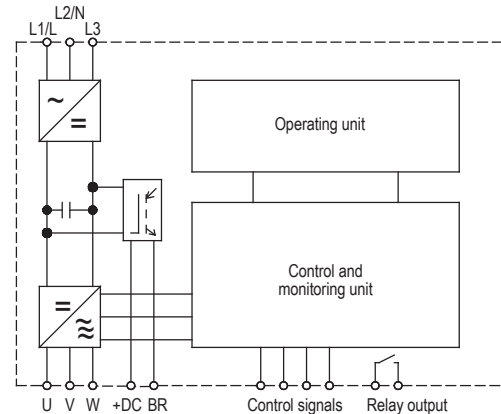
- ☒ control and setpoint entry via terminals, operating units and bus systems
- ☒ PWM clock frequency 4 - 32kHz
- ☒ sensorless speed and torque control
- ☒ potential-free control and signalling contacts
- ☒ 150% overload for 60s
- ☒ integrated PI controller
- ☒ detailed trouble check via parameter Po-13
- ☒ easy PLC functionality

Typical Application:

electric pumps, heat pumps, vacuum pumps
 ventilators and fans, cranes, travelling cranes, extraction systems
 compressors, stirrers, saws, conveyors, elevators and hoists
 woodworking machines, grinding machines
 textile machines, packaging machines, printing machines
 drives with high load, other

Options: (please see accessories)

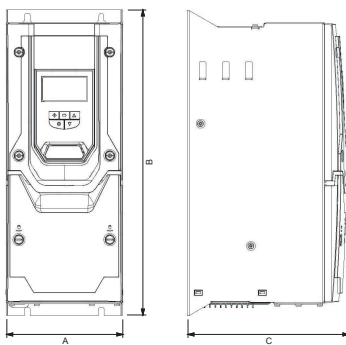
- ☒ remote control module
- ☒ additional input and output module
- ☒ RJ45-cable and cable splitter
- ☒ encoder extension module
- ☒ communication- and bus-plug-ins
- ☒ bluetooth-memory stick
- ☒ braking resistors
- ☒ software for parameterization and operating
- ☒ license key for PLC



Typical designation	VD i .../3Pro/IP55															VD i/3Pro/IP20		
	1100	1500	1850	2200	3000	3700	4500	5500	7500	9000	11000	13200	16000	20000	25000			
motor shaft power / kW	11	15	18,5	22	30	37	45	55	75	90	110	132	160	200	250			
mains voltage according to DIN EN 50160 (IEC 38)	three-phase 380-480V ± 10% 48-62Hz																	
output current / A	25	30	39	46	61	72	90	110	150	180	202	240	300	370	450			
order number: 2101. ...	40011	40015	40018	40022	40030	40037	40045	40055	40075	40090	40110	40132	40160	40200	40250			
recommended mains filter order number	27114.48055			27114.48100			27114.48180			27114.48300			-	-	-			

Technical data	VD i ... /3Pro/IP55														VD i/3Pro/IP20					
	1100	1500	1850	2200	3000	3700	4500	5500	7500	9000	11000	13200	16000	20000	25000					
motor shaft power / kW	11	15	18,5	22	30	37	45	55	75	90	110	132	160	200	250					
mains voltage according to DIN EN 50160 (IEC 38)	three-phase 380-480V ± 10% 48-62Hz																			
output current / A	25	30	39	46	61	72	90	110	150	180	202	240	300	370	450					
peak current for 1min./ A	38	45	59	69	91	108	135	165	225	270	303	360	450	555	675					
control functions	0 – 500Hz																			
frequency setting range	boost (U/f) adjustable via parameter setting: open loop vector control																			
torque boost	0 ... 300s																			
ramp-up and ramp-down time	potentiometer >= 1kΩ, 0-10V, 4-20mA, keypad, fixed frequencies, motor potentiometer, Modbus RTU, CANbus																			
frequency setpoint	-10 ... 50°C, -40 ... 60°C																			
ambient / storage temperature	4																			
design size	5				6				7				8							
weight / kg	11,5				22,5				50				80				200			

Dimensions:



size	A	B	C
4	171	440	240
5	235	540	270
6	330	865	330
7	330	1280	360
8	482	995	480

All dimensions indicated in mm

Connection Diagram:

