

AC drive VD i ... /43C2+ up to 110kW 4.09

**Features:**

- speed control, torque and bearing control
- induction motors, PM motors
- safe torque shutdown STO
- detachable operating unit
- max. rotating field frequency 599Hz
- integrated braking chopper
- degree of protection IP20
- integrated mains filter
- integrated MODBUS
- integrated CANopen
- replaceable fan



AC drive  
VD i 3700 ... 11000/43C2+  
CE 

**Function:**

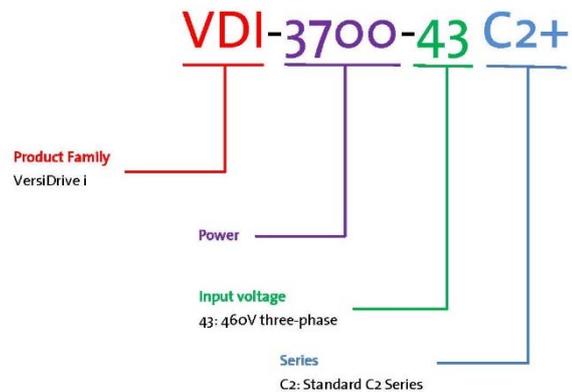
- control and setpoint entry via terminals, operating units and bus systems
- built-in PLC function
- potential-free control and signalling contact
- 4 motor parameter sets
- 150% overload for 60s
- PWM in-/output
- PI controller

**Typical Application:**

- centrifuges
- pumps
- grinding machines
- printing machines
- textile machines
- ventilators
- conveying systems
- woodworking machines
- packaging machines

**Options:** (please see accessories)

- Profibus DP
- Modbus TCP/IP
- EtherNet/IP
- EtherCAT
- DeviceNet
- ProfiNET
- BACnet
- E/A extensions
- operating software

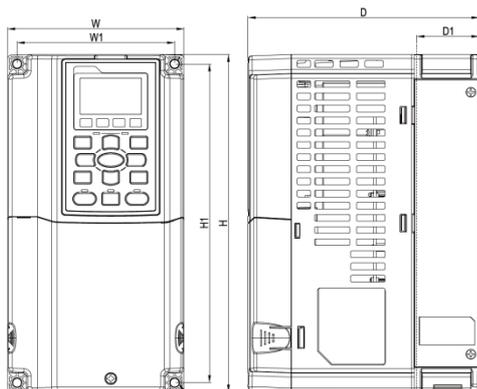


| Typical designation                              | VD i ...-43C2+                                     |                 |                 |                 |                 |                 |
|--|--|-----------------|-----------------|-----------------|-----------------|-----------------|
|  | 3700   | 4500            | 5500            | 7500            | 9000            | 11000           |
| motor shaft power/kW                             | 37   | 45              | 55              | 75              | 90              | 110             |
| mains voltage according to DIN EN 50160 (IEC 38) | three-phase<br>380-480V, +10%, -15%<br>50/60Hz ±5% |                 |                 |                 |                 |                 |
| output rated current ND /A*                      | 73   | 91              | 110             | 150             | 180             | 220             |
| output rated current HD /A*                      | 69   | 86              | 105             | 143             | 171             | 209             |
| order number                                     | 2D204.<br>43037                                    | 2D204.<br>43045 | 2D204.<br>43055 | 2D204.<br>43074 | 2D204.<br>43090 | 2D204.<br>43110 |
| recommended mains filter (class C1)              | 27114.48100  |                 | 27114.48180     |                 |                 | 27114.48250     |

\* HD – high duty, ND – normal duty

| Technical data                                   | VD i ...-43C2+   |      |            |      |            |       |
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| control functions                                |  |      |            |      |            |       |
| control methods                                  | U/f, sensorless vector control   |      |            |      |            |       |
| frequency setting range                          | 0-599Hz  |      |            |      |            |       |
| clock speed                                      | 2-15kHz  |      |            |      |            |       |
| starting torque                                  | 150% /0,5 Hz   |      |            |      |            |       |
| overload capacity                                | ND: 120% for 60sek; 160% for 3sek<br>HD: 150% for 60sek; 180% for 3sek                               |      |            |      |            |       |
| motor protection                                 | overcurrent protection, overvoltage protection, overtemperature protection, phase failure protection |      |            |      |            |       |
| specification of frequency setpoints             | 0 ... +10 V/-10 V ...+10 V, 4...20 mA/0...20mA, 1 pulse input  |      |            |      |            |       |
| ambient / storage temperature                    | -20 ... 40°C /<br>-25 ... 70°C   |      |            |      |            |       |
| size   | Do-1   |      | D1         |      | E1         |       |
| weight / kg                                      | 27 ± 1.5   |      | 38.5 ± 1.5 |      | 64.8 ± 1.5 |       |

Dimensions:



| Frame size | W   | H   | D   |
|------------|-----|-----|-----|
| Do-1       | 280 | 500 | 255 |
| D1         | 330 | 550 | 275 |
| E1         | 370 | 589 | 300 |

All dimensions in mm

Connection Diagram:

