

ENGINEERING TOMORROW

Selection Guide | VACON[®] 100 | 0.55 – 800 kW

VACON[®] 100 – versatile AC drives designed to save energy and improve process control

BACK

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VACON



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VACON[®] 100 INDUSTRIAL and VACON[®] 100 FLOW – Innovation and high quality for your applications

VACON® 100 INDUSTRIAL and VACON® 100 FLOW AC drives are ideal for saving energy, optimizing process control and improving productivity. They are designed for multi-purpose use while remaining also user-friendly. VACON 100 INDUSTRIAL and VACON 100 FLOW are at the core of what we do – providing innovative and reliable high-quality products for key applications across various industries. They are well suited for a wide range of variable torque and constant power/torque applications including pumps, fans, compressors and conveyors. These are applications where energy efficiency and productivity improvements often result in a rapid return on project investments.



The VACON 100 INDUSTRIAL and VACON 100 FLOW are available in full power capacity up to 800 kW. All power sizes are available as drive modules. Larger power sizes are also available in a free-standing enclosed version. The enclosed version contains a wide range of configurable options as well as an innovative control compartment for safe access, without opening the main door. See more on p. 12–13.



VACON[®] 100 INDUSTRIAL – one drive, extensive applications

The VACON 100 INDUSTRIAL is a workhorse for a wide range of industrial applications. It is easy to integrate into all major control systems and is quickly adaptable to different needs. Just choose your application and let the VACON 100 INDUSTRIAL bring you clear savings. Integrated RS485 and Ethernet interfaces that support major industrial protocols save on the need for additional interface cards. For OEMs, VACON® Programming enables the built-in PLC functionality according to IEC61131-3 to integrate their own functionality in the drive. The VACON® Customizer facilitates smaller logic adaptations for special needs or retrofit situations.

VACON[®] 100 FLOW – dedicated functionality

VACON 100 FLOW is an AC drive dedicated to improving flow control and saving energy in pumping and ventilating applications. Combining the core functionality of VACON 100 INDUSTRIAL, the VACON 100 FLOW provides specific flow-control functions to enhance pump and fan performance and protect pipes and equipment to ensure reliable operation.

VACON 100 FLOW places an emphasis on user-friendliness and functionalities created for use in pump and fan applications. For instance, standard PID control eliminates the need for an external controller by using a sensor to control pump speed. This is useful when reacting to fluctuations in demand.

VACON[®] 100 product platform highlights

Available in the power range of:

| n 3 x 208-240 V | 0.55-90 kW (0.75-125 HP) |
|------------------------|--------------------------|
| n 3 x 380-500 V | 1.1-630 kW (1.5-800 HP) |
| n 3 x 525-600 V | |
| n 3 x 525-690 V | 5.5-800 kW (7.5-800 HP) |

Connect to your control system

All VACON® 100 AC drives are equipped with built-in Ethernet. This feature means that no additional options or gateways are needed to communicate with process automation. It also provides access for commissioning and maintenance through the VACON® Live configuration tool and makes local or remote monitoring possible.

Runs high-efficiency motors

Select the most efficient motor for your task, with the ability to run the new high-efficiency motor technologies, such as permanent magnet and synchronous reluctance motors, for improved system efficiency.

Built to last without interruption

All VACON 100 drives use electrolytic-free DC link technology which guarantees users the longest possible lifecycle and availability. By avoiding the need to replace electrolytic capacitors – that often wear out over time – interruptions and costs are kept to a minimum.

In harmony with the environment

While saving energy with the VACON 100 range of drives, you naturally contribute to reduced emissions and pollution. Our VACON 100 portfolio fulfills key international standards and global requirements, including RoHS (lead free), EMC and Harmonics approvals.

We have also carried out a lifecycle analysis of a VACON 100 AC drive to determine its carbon footprint. During the production of one 18.5-kW VACON 100 drive, 255 kg of CO_2e (carbon dioxide equivalent) emissions occur. However, when that drive is put to work in a typical fan application (compared to a two-speed electric motor), it actually saves 24,500 kg in CO_2e emissions over a 10-year period.



Film capacitors last up to 300,000 hours – that's about 30 years of reliable operation

Easy to operate

User-friendly keypad

The user interface is intuitive to use. You will enjoy the keypad's well-structured menu system that allows for fast commissioning and trouble-free operation.

- n Graphical and text keypad with multiple language support
- **n** 9 signals can be monitored at the same time on a single
- multi-monitor page and is configurable to 9, 6 or 4 signals
- n 3-color LED status indication on the control unit
- n Trend display for two signals at the same time

Quick set up

Easy commissioning tools ensure a hassle-free set up whatever the application. Easy diagnostic with help in plain text is provided for each parameter, signal and fault. StartUp Wizard – for fast setup of the drive Application Selections – for easy commissioning:

n VACON 100° INDUSTRIAL – Standard, Local Remote, PID, Multi Step,

- Multi Purpose, Motor Potentiometer N VACON[®] 100 FLOW – PID, Multipump single and Multipump
- Multidrive applications, HVAC

All VACON 100 AC drives also feature a real-time clock that supports calendar-based functions.

Easy installation

- **n** Both IP21/UL Type 1 and IP54/UL Type 12 units require the same mounting space. Compact IP54/UL Type 12 units can be installed side-by-side to save space
- **n** Frame sizes MR8 through MR12 are also available as IP00/UL Open Type for cabinet installation
- n Flange-mounting option for through-hole mounting, reducing heat loss and enclosure size
- Integrated lead-in grommets and 360-degree grounding ensure IP54/UL
 Type 12 and EMC compliance and lead to further cost savings
- n Enclosed drives with a wide range of integrated options ready to use

Drive customizer

VACON 100 comes equipped with a built-in functionality that enables the AC drive to adapt to almost any function requiring I/O and control logic. The drive customizer function features a wide array of logical and numerical function blocks that can combine and extend standard drive functionalities, ensuring specific user requirements are met. The drive customizer does not require any special tools or training, while a fully graphical configuration can be performed using the VACON[®] Live configuration tool. Configurations can be copied using VACON Live as part of the normal parameter list.

VACON® Programming

Machine builders or OEMs can achieve a high level of machine performance by optimizing the application with the VACON Programming software tools. These licensed tools feature built-in PLC functionality based on IEC 61131-3. You simply program and secure your own control logic into the drive.





Easy to integrate

Ethernet connectivity

You don't need to purchase additional communication tools as integrated Ethernet connectivity allows remote drive access for monitoring, configuring and troubleshooting.

Ethernet protocols such as PROFINET IO, EtherNet/IP and Modbus TCP are available for all VACON[®] 100 drives. New Ethernet protocols are being continuously developed.

Fieldbus options

- In addition to the integrated Ethernet connectivity, the VACON 100 drives also include built-in RS485 for Modbus RTU
- For other protocols, click-in fieldbus options facilitate integration to traditional systems for the following: PROFIBUS DP, DeviceNet, LonWorks, CANOpen and EtherCAT. This ensures increased control and monitoring with reduced cabling
- Other communications options include: BACnet MSTP, BACnet IP, Metasys N2

Safe Torque Off, Safe Stop 1

- Safe Torque Off (STO) prevents the AC drive from generating torque on the motor shaft and prevents unintentional start-ups. The function also corresponds to an uncontrolled stop in accordance with stop category 0, EN60204-1
- Safe Stop 1 (SS1) initiates the motor deceleration and initiates the STO function after an application-specific time delay. The function also corresponds to a controlled stop in accordance with stop category 1, EN 60204-1
- n The optional integrated STO and SS1 safety options have several advantages over standard safety technology using electromechanical switchgear. For example, separate components and the efforts required to wire and service them are no longer necessary, but the required level of safety at work is maintained

ATEX-certified thermistor input

Certified and compliant with the European ATEX directive 94/9/EC, the optional integrated thermistor input is specially designed for the temperature supervision of motors that are placed in areas:

n in which potentially explosive gas, vapor, mist or air mixtures are presentn with combustible dust

If over-heating is detected, the drive immediately stops feeding energy to the motor. As no external components are needed, the cabling is minimized, improving reliability and saving on both space and costs.

VACON[®] Save

VACON Save is a savings calculator for pump, fan and compressor applications which can be used to estimate cost and energy savings. It's a great tool for customers who are looking to work out the best and most economical pump and fan solution.





VACON® 100 INDUSTRIAL

It may look like a traditional AC drive – but it's not. VACON® 100 INDUSTRIAL is full of smart features, dedicated for a wide range of constant power/torque applications. Benefit from functional safety with Safe Torque Off to prevent the motor from generating torque on the motor shaft, Safe Stop 1, and ATEX-certified motor over-temperature protection.

The VACON 100 INDUSTRIAL has as standard features such as built-in I/Os with 3 option slots, integrated RS485 and Ethernet-based fieldbus support and varnished boards. Easy-to-use and robust motor control features improve the reliability and efficiency of all AC motor types (induction motors, permanent magnet motors and synchronous reluctance motors).

The wall-mountable drive modules are easy to install and operate, with IP21/ UL Type1 provided as standard. Options include IP54/UL Type12 and flange (through-hole) mounting. Frame sizes MR8 through MR12 are also available as compact IP00 for easy installation to any enclosure. Enclosed drives come with a wide range of integrated options.

| Typical applications for VACON® 100 INDUSTRIAL | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|
| Process industry | Marine | Industrial HVAC/Semiconductor industry | | | | | | | | |
| Conveyors Pumps and fans Chippers, debarking drums, sawmills | Cargo pumpsCompressorsSteering gear | CompressorsPumps and fans | | | | | | | | |
| Water | Chemical, oil and gas | Mining and minerals | | | | | | | | |
| Distribution Desalination Treatment Pumps Compressors, conveyors | Pumps and fans Compressors | ConveyorsPumps and fans | | | | | | | | |
| Cement auxiliary drives | | | | | | | | | | |
| Conveyors Pumps and fans | | | | | | | | | | |



What's in it for you

| | Common features | Benefits | | | |
|-------------|---|---|--|--|--|
| | Compliance with global standards | Global compatibility | | | |
| | Built-in Modbus TCP/IP and Modbus RTU Extensive variety of fieldbus options Ethernet always included – Modbus TCP/IP & BACnet/IP – PROFINET IO and EtherNet/IP (Software option) Ease of connectivity – multiple fieldbus options PROFIBUS DP CanOpen DeviceNet EtherCAT | Most of what is needed is in-built Easy integration with plant automation | | | |
| | Safe Torque Off, Safe Stop1, ATEX-certified thermistor input | Improves safety at work | | | |
| | EMC compliance with integrated RFI filter Integrated DC chokes | No additional accessories required | | | |
| | Conformal coating | High reliability in difficult environments | | | |
| | Compact IP54/UL Type 12 with same footprint as IP21/UL Type 1 Flange mounting Side-by-side mounting for IP54/UL Type 12 | Easy and cost-effective installation | | | |
| | Standard I/O + 3 free slots Fieldbus options, built-in PLC capability | Reduces need for an external controller | | | |
| | High efficiency > 97% + energy optimization | Fast investment payback, increases profits | | | |
| | Energy counter and Real-time clock with calender-based functions Optimized control of cooling fan | Easy monitoring of energy savings Reduces noise levels | | | |
| | Film capacitors | Extended lifespan: last up to 300,000 hours – that's about 30 years of reliable operation Optimized performance: always ready for immediate use – no stocking problems Reduced losses: cut losses by 2% Environmentally friendly: contain no hazardous waste | | | |
| | Wide motor support | Induction motor support – general purpose usage PM motor support – demanding applications and high efficiency SynRM motor support – cost-efficient motor and high efficiency Save commissioning time Plug-and-play identification run available for multiple motors | | | |
| | Omitting encoder – sensorless vector control | Converting simple closed loop | | | |
| | Dedicated features | Added benefits | | | |
| Pumps | 2 PID controllers with sleep mode, soft fill, jockey pump, pump autoclean PM and induction motor support Multipump control solutions | Demand-based optimization of the process for accurate process control and energy saving Easy selection for any motor PM motor allows higher power density, less mechanics | | | |
| Fans | Flying start, motor switch 3 prohibit frequency ranges PM and induction motor support | Save time during process operation and maintenance Fan lifetime increased due to reduced mechanical stress Easy selection for any motor PM motor allows higher power density = energy savings | | | |
| Compressors | IP21/UL Type 1 and IP54/UL Type 12 Flange (through-hole) mounting IP00 for MR8 and MR12 | Suitable for wide installation needs Easy to integrate into the machine, saving space and cost of integration and cooling | | | |
| Conveyors | Load drooping, identification run without disconnecting the motor from the load, mechanical brake, torque boost | Avoid stress on mechanics Easy commissioning | | | |



VACON® 100 FLOW

The VACON® 100 FLOW is an AC drive dedicated to improving flow control in pumping and ventilating applications. It combines the core functionality of VACON® 100 with dedicated functions that are specifically designed with flow-control application processes in mind.

Multipump control solutions

Get the best functionality and costefficiency from your process with the VACON 100 FLOW. Choose from three Multipump control solutions, each of which offers unsurpassed control of flow and pressure.

Demand for water or ventilation fluctuates throughout the course of a day. For instance, cooling water demand in a plant may peak during the day as the plant runs at full capacity. Conversely, in the middle of the night the plant may run at reduced capacity reducing the requirements for cooling water.

The use of several pumps instead of just a single one results in higher efficiency as several pumps share the load. This also makes the system more redundant: if one pump fails, the others can take on its load.

Single drive pump system

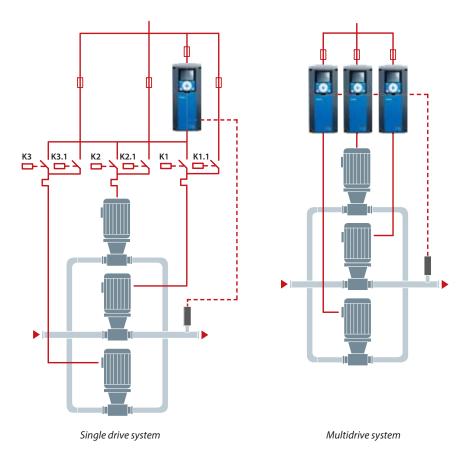
Multipump control is a single drive solution in which one AC drive controls

the leading pump. If the demand exceeds the capabilities of the pump, additional fixed-speed pumps can be connected online directly or with a soft starter. You can choose between fixed setups and solutions in which the leading and auxiliary pumps alternate in roles to equalize wear and tear.

Single drive system in brief

- n Maximum 8 pumps
- n No need for an external controller
- Alternation of all pumps or only auxiliary pumps

Typical applications for VACON® 100 FLOW Industrial water treatment General industry Cooling water systems Cooling water systems Boiler water systems Pumps and fans



Multidrive pump systems

In Multimaster technology, separate AC drives control each pump. The integrated RS485 interface allows the drives to communicate without the need for any external controller. As demand increases, the leading drive increases its speed until the capacity is exceeded, at which point the excess load is transferred to the next drive in the series. This method ensures pumps start and stop smoothly, and reduces the need for additional control wiring, motor protection relay and contactors.

Multifollower mode follows the same principle as Multimaster in that separate AC drives control each pump. Where this system differs is that, as demand increases and the lead drive's capacity is exceeded, the system brings additional parallel drives into operation. This ensures that all pumps run at the same operating speed, reducing noise and general stress, thus improving reliability.

Multidrive systems in brief

- n Maximum 8 pumps
- n No need for an external controller
- n Communication between drives using integrated RS485

What's in it for you – dedicated pump, fan and compressor features

| | Dedicated features | Added benefits |
|-------------|---|--|
| Pumps | 2 PID controllers with sleep mode, soft fill, jockey pump, pump autoclean, PM and induction motor support Multipump control solutions | Demand-based optimization of the process for accurate process control and energy saving Easy selection for any motor PM motor allows higher power density, less mechanics |
| Fans | Flying start, motor switch 3 prohibit frequency ranges PM and induction motor support | Save time during process operation and maintenance Fan lifetime increased due to reduced mechanical stress Easy selection for any motor PM motor allows higher power density = energy savings |
| Compressors | IP21/UL Type 1 and IP54/UL Type 12 Flange (through-hole) mounting IP00 for MR8 and MR12 | Suitable for wide installation needs Easy to integrate into the machine, saving space and cost of integration and cooling |



VACON[®] 100 wall-mounted drives

The VACON® 100 wall-mounted drives are compact and comprehensive drive packages, with all the necessary components integrated in a single drive. VACON 100 wall-mounted drives are available in IP21/UL Type 1 or IP54/UL Type 12. They are available at 230 V, 500 V and 690 V.



Features

- n Conformal coating
- IP54/UL Type 12 has the same footprint as IP21/UL Type 1
- n Flange mounting
- n Side-by-side mounting for IP54/UL Type 12
- n Integrated DC choke and EMC filters
- Integrated brake chopper standard in frames MR4 to MR6

Benefits

- **n** Reduced installation space and costs
- n Higher reliability in demanding environments

| Power range | |
|---------------|------------|
| 3 x 208-240 V | 0.55-90 kW |
| 3 x 380-500 V | 1.1-160 kW |
| 3 x 525-600 V | 3.0-200 HP |
| 3 x 525-690 V | 5.5-200 kW |



VACON® 100 drive modules

VACON[®] 100 IP00 drive modules are intended for installation into any enclosure. Module installation in standard enclosures is easy due to the compact design.

VACON 100 drive modules start at frame size MR8 and go up to frame MR12. The modules contain all necessary components including DC chokes and brake choppers (optional). Module frame sizes MR10 and MR12 have an options module that can house optional output filters and brake choppers. The options are integrated in the main cooling channel.



Features

- **n** Wide power range using only four frames
- n Integrated DC chokes
- n Integrated brake chopper (optional)
- n Integrated output filters (optional)
- Options module for easy integration (frames MR10 and MR12)
- n Remotely mountable control box
- n IP54 main cooling channel

Benefits

- n Reduced installation space and costs
- n Easier integration
- Improved reliability by separating the main cooling air flow from the rest of the drive electronics

Power range

| 3 x 208-240 V | 37-90 kW |
|---------------|-----------|
| 3 x 380-500 V | 75-630 kW |
| 3 x 525-690 V | 45-800 kW |



VACON® 100 enclosed drives

The VACON 100[®] enclosed drives are designed to meet the most demanding requirements for flexibility, robustness, compactness and service-friendliness. They are a smart choice for many applications and available from 75 to 630 kW at 380-500 V and 75 to 800 kW at 525-690 V.

Proven solution

Our VACON 100 enclosed drives are compact and tested to meet harsh operating conditions. They can be installed in many different standard applications such as pumps or conveyors. The innovative air-cooling channel ensures reliable thermal handling of the enclosure and provides extended lifetime of the drive with trouble-free operation in tough environments. Approved EMC solutions ensure reliable operation of the drive without disturbing other electrical equipment. The VACON 100 Enclosed drives are configurable with power, control and enclosure options to meet the needs of the application. Output filter options, input disconnects and brake choppers are integrated into the cabinet solution eliminating the need for additional equipment outside of the enclosure. Power options, such as output filters, are integrated into the air-cooling solution and provide a thermally proven cabinet design.

Features

- n Separate cooling air channel
- **n** Common mode and dU/dt filters integrated in cooling air channel
- Back channel cooling option available
- **n** Fast acting aR input fuses as standard
- Integrated output filters and fuse switch as options

Benefits

- n IP54/UL without derating
- n Reduced installation space and costs
- n Higher reliability in demanding environments
- n Safe, complete, integrated solution

Power range

| 3 x 380-500 V | 75-630 kW |
|---------------|-----------|
| 3 x 525-690 V | 75-800 kW |

Features

- **n** Configured to order with pre-engineered options
- Door-mounted control compartment separate from the main drive
- n I/O wired to standard terminal blocks
- Dedicated area for signal lights and control switches
- All components accessible from the front of the enclosure

Benefits

- Standard product configured to user's needs
- **n** Safe accessibility to controls
- **n** Easier installation
- **n** Complete solutions
- Faster commissioning and serviceability



Flexible interface

VACON 100° enclosed drives feature an accessible door-mounted control compartment for the relay, auxiliary terminals and other control options. All standard I/O are wired to control terminal blocks simplifying the installation and commissioning. The control door has a dedicated area for signal lights and switches based on the product configuration options.









Power ratings

Power range 208-240 V / VACON® 100 INDUSTRIAL, VACON® 100 FLOW

| Mains voltage | a | a | e Ve | | oad (10% over DUSTRIAL, -FL | | High overl | oad (5% overle -INDUSTRIAL | oadability) | | |
|---------------------------|--------------|----------|--|--|--|--|--|--|---------------------------|-------------------|--|
| 208-240 V, 50-60 Hz | driv | drive | Loadability | Motor sha | aft power | Loadability | Motor sha | aft power | Max | | |
| AC drive type | Module drive | Enclosed | 40 °C continuous current I _{Lout} [A] | 230 V supply power 40 °C LO [kW] | NEC 230 V supply power 40 °C LO [HP] | 50 °C continuous current I _{Hout} [A] | 230 V supply power 50 °C HO [kW] | NEC 230 V supply power 50 °C HO [HP] | current Is (2s) [A] | Enclosure size | |
| VACON 0100-3L-0003-2-xxxx | | | 3.7 | 0.55 | 0.75 | 2.6 | 0.37 | 0.5 | 5.2 | | |
| VACON 0100-3L-0004-2-xxxx | | | 4.8 | 0.75 | 1 | 3.7 | 0.55 | 0.75 | 7.4 | | |
| VACON 0100-3L-0007-2-xxxx | | | 6.6 | 1.1 | 1.5 | 4.8 | 0.75 | 1 | 9.6 | MR4 | |
| VACON 0100-3L-0008-2-xxxx | | | 8 | 1.5 | 2 | 6.6 | 1.1 | 1.5 | 13.2 | 10111- | |
| VACON 0100-3L-0011-2-xxxx | | | 11 | 2.2 | 3 | 8 | 1.5 | 2 | 16 | | |
| VACON 0100-3L-0012-2-xxxx | | | 12.5 | 3 | 4 | 9.6 | 2.2 | 3 | 19.6 | | |
| VACON 0100-3L-0018-2-xxxx | | | 18 | 4 | 5 | 12.5 | 3 | 4 | 25 | | |
| VACON 0100-3L-0024-2-xxxx | | | 24 | 5.5 | 7.5 | 18 | 4 | 5 | 36 | MR5 | |
| VACON 0100-3L-0031-2-xxxx | | | 31 | 7.5 | 10 | 25 | 5.5 | 7.5 | 46 | | |
| VACON 0100-3L-0048-2-xxxx | | | 48 | 11 | 15 | 31 | 7,5 | 10 | 62 | MR6 | |
| VACON 0100-3L-0062-2-xxxx | | | 62 | 15 | 20 | 48 | 11 | 15 | 96 | MINU | |
| VACON 0100-3L-0075-2-xxxx | | | 75 | 18.5 | 25 | 62 | 15 | 20 | 124 | | |
| VACON 0100-3L-0088-2-xxxx | | | 88 | 22 | 30 | 75 | 18.5 | 25 | 150 | MR7 | |
| VACON 0100-3L-0105-2-xxxx | | | 105 | 30 | 40 | 88 | 22 | 30 | 176 | | |
| VACON 0100-3L-0140-2-xxxx | * | | 140 | 37 | 50 | 114 | 30 | 40 | 210 | | |
| VACON 0100-3L-0170-2-xxxx | * | | 170 | 45 | 60 | 140 | 37 | 50 | 280 | MR8 | |
| VACON 0100-3L-0205-2-xxxx | * | | 205 | 55 | 75 | 170 | 45 | 60 | 340 | | |
| VACON 0100-3L-0261-2-xxxx | * | | 261 | 75 | 100 | 211 | 55 | 75 | 410 | MR9 | |
| VACON 0100-3L-0310-2-xxxx | * | | 310 | 90 | 125 | 251 | 75 | 100 | 502 | MIN9 | |

* IP00, IP21 and IP54

Power range 380-500 V / VACON® 100 INDUSTRIAL, VACON® 100 FLOW

| Mains voltage | a | ە | a | 61 | ъ | e e | -IN | Low overload DUSTRIAL, -FI | | | High overload -INDUSTRIAL | l | | |
|---------------------------|--------------|--------------------------------|---------------------------|----------|--|--|--|--|--|--|------------------------------|-------------------|--|--|
| 380-500 V, 50-60 Hz | driv | driv | Loadability | Motor sh | aft power | Loadability | Motor sh | aft power | Max | | | | | |
| AC drive type | Module drive | Module drive Enclosed drive | Module Enclosed | Enclosed | 40 °C continuous current I _{Lout} [A] | 400 V supply power 40 °C LO [kW] | 480 V NEMA / NEC power 40 °C LO [HP] | 50 °C continuous current I _{Hout} [A] | 400 V supply power 50 °C HO [kW] | 480 V NEMA / NEC power 50 °C HO [HP] | current Is (2s) [A] | Enclosure size | | |
| VACON 0100-3L-0003-5-xxxx | | | 3.4 | 1.1 | 1.5 | 2.6 | 0.75 | 1 | 5.2 | | | | | |
| VACON 0100-3L-0004-5-xxxx | | | 4.8 | 1.5 | 2 | 3.4 | 1.1 | 1.5 | 6.8 | | | | | |
| VACON 0100-3L-0005-5-xxxx | | | 5.6 | 2.2 | 3 | 4.3 | 1.5 | 2 | 8.6 | MDA | | | | |
| VACON 0100-3L-0008-5-xxxx | | | 8 | 3 | 4 | 5.6 | 2.2 | 3 | 11.2 | MR4 | | | | |
| VACON 0100-3L-0009-5-xxxx | | | 9.6 | 4 | 5 | 8 | 3 | 4 | 16 | | | | | |
| VACON 0100-3L-0012-5-xxxx | | | 12 | 5.5 | 7.5 | 9.6 | 4 | 5 | 19.2 | | | | | |
| VACON 0100-3L-0016-5-xxxx | | | 16 | 7.5 | 10 | 12 | 5.5 | 7.5 | 24 | | | | | |
| VACON 0100-3L-0023-5-xxxx | | | 23 | 11 | 15 | 16 | 7.5 | 10 | 32 | MR5 | | | | |
| VACON 0100-3L-0031-5-xxxx | | | 31 | 15 | 20 | 23 | 11 | 15 | 46 | | | | | |
| VACON 0100-3L-0038-5-xxxx | | | 38 | 18.5 | 25 | 31 | 15 | 20 | 62 | | | | | |
| VACON 0100-3L-0046-5-xxxx | | | 46 | 22 | 30 | 38 | 18.5 | 25 | 76 | MR6 | | | | |
| VACON 0100-3L-0061-5-xxxx | | | 61 | 30 | 40 | 46 | 22 | 30 | 92 | | | | | |
| VACON 0100-3L-0072-5-xxxx | | | 72 | 37 | 50 | 61 | 30 | 40 | 122 | | | | | |
| VACON 0100-3L-0087-5-xxxx | | | 87 | 45 | 60 | 72 | 37 | 50 | 144 | MR7 | | | | |
| VACON 0100-3L-0105-5-xxxx | | | 105 | 55 | 75 | 87 | 45 | 60 | 174 | | | | | |
| VACON 0100-3L-0140-5-xxxx | * | -ED | 140 | 75 | 100 | 105 | 55 | 75 | 210 | | | | | |
| VACON 0100-3L-0170-5-xxxx | * | -ED | 170 | 90 | 125 | 140 | 75 | 100 | 280 | MR8 | | | | |
| VACON 0100-3L-0205-5-xxxx | * | -ED | 205 | 110 | 150 | 170 | 90 | 125 | 340 | | | | | |
| VACON 0100-3L-0261-5-xxxx | * | -ED | 261 | 132 | 200 | 205 | 110 | 150 | 410 | MDO | | | | |
| VACON 0100-3L-0310-5-xxxx | * | -ED | 310 | 160 | 250 | 251 | 132 | 200 | 502 | MR9 | | | | |
| VACON 0100-3L-0385-5-xxxx | ** | -ED | 385 | 200 | 300 | 310 | 160 | 250 | 620 | | | | | |
| VACON 0100-3L-0460-5-xxxx | ** | -ED | 460 | 250 | 350 | 385 | 200 | 300 | 770 | MR10 | | | | |
| VACON 0100-3L-0520-5-xxxx | ** | -ED | 520 | 250 | 450 | 460 | 250 | 350 | 920 | IVIKTU | | | | |
| VACON 0100-3L-0590-5-xxxx | ** | -ED | 590 | 315 | 500 | 520 | 250 | 450 | 1040 | | | | | |
| VACON 0100-3L-0650-5-xxxx | ** | -ED | 650 | 355 | 500 | 590 | 315 | 500 | 1180 | | | | | |
| VACON 0100-3L-0730-5-xxxx | ** | -ED | 730 | 400 | 600 | 650 | 355 | 500 | 1300 | | | | | |
| VACON 0100-3L-0820-5-xxxx | ** | -ED | 820 | 450 | 700 | 730 | 400 | 600 | 1460 | MR12 | | | | |
| VACON 0100-3L-0920-5-xxxx | ** | -ED | 920 | 500 | 800 | 820 | 450 | 700 | 1640 | IVIR 12 | | | | |
| VACON 0100-3L-1040-5-xxxx | ** | -ED | 1040 | 560 | 900 | 920 | 500 | 800 | 1840 | | | | | |
| VACON 0100-3L-1180-5-xxxx | ** | -ED | 1180 | 630 | 1000 | 920 | 500 | 800 | 1840 | | | | | |

* IP00, IP21 and IP54 ** IP00

Power range 525-600 V / VACON® 100 INDUSTRIAL, VACON® 100 FLOW

| Mains voltage | 0 | a | | verload IAL, -FLOW | | verload STRIAL | | |
|---------------------------|----------|----------|--|--|--|--|---------------------------|-------------------|
| 525-600 V, 50-60 Hz | drive | drive | Loadability | Motor shaft power | Loadability | Motor shaft power | Max | |
| AC drive type | Module d | Enclosed | 40 °C continuous current I _{Lout} [A] | 600 V supply power 40 °C LO [HP] | 50 °C continuous current I _{Hout} [A] | 600 V supply power 50 °C HO [HP] | current Is (2s) [A] | Enclosure size |
| VACON 0100-3L-0004-6-xxxx | | | 3.9 | 3 | 2.7 | 2 | 5.4 | |
| VACON 0100-3L-0006-6-xxxx | | | 6.1 | 5 | 3.9 | 3 | 7.8 | MR5 |
| VACON 0100-3L-0009-6-xxxx | | | 9 | 7.5 | 6.1 | 5 | 12.2 | IVINO |
| VACON 0100-3L-0011-6-xxxx | | | 11 | 10 | 9 | 7.5 | 18 | |
| VACON 0100-3L-0018-6-xxxx | | | 18 | 15 | 13.5 | 10 | 27 | |
| VACON 0100-3L-0022-6-xxxx | | | 22 | 20 | 18 | 15 | 36 | MR6 |
| VACON 0100-3L-0027-6-xxxx | | | 27 | 25 | 22 | 20 | 44 | MIRO |
| VACON 0100-3L-0034-6-xxxx | | | 34 | 30 | 27 | 25 | 54 | |
| VACON 0100-3L-0041-6-xxxx | | | 41 | 40 | 34 | 30 | 68 | |
| VACON 0100-3L-0052-6-xxxx | | | 52 | 50 | 41 | 40 | 82 | MR7 |
| VACON 0100-3L-0062-6-xxxx | | | 62 | 60 | 52 | 50 | 104 | |
| VACON 0100-3L-0080-6-xxxx | | | 80 | 75 | 62 | 60 | 124 | |
| VACON 0100-3L-0100-6-xxxx | | | 100 | 100 | 80 | 75 | 160 | MR8 |
| VACON 0100-3L-0125-6-xxxx | | | 125 | 125 | 100 | 100 | 200 | |
| VACON 0100-3L-0144-6-xxxx | | | 144 | 150 | 125 | 125 | 250 | MR9 |
| VACON 0100-3L-0208-6-xxxx | | | 208 | 200 | 170 | 150 | 340 | IVIR9 |

Power range 525-690 V / VACON® 100 INDUSTRIAL, VACON® 100 FLOW

| Mains voltage | цъ | 0 | 0 | e. | -IN | Low overload DUSTRIAL, -FL | | | High overload -INDUSTRIAL | | | |
|---------------------------|--------------|----------------|--|--|--|--|--|--|------------------------------|-------------------|--|--|
| 525-690 V, 50-60 Hz | drive. | driv | Loadability | Motor sh | aft power | Loadability | Motor sha | aft power | Max | | | |
| AC drive type | Module drive | Enclosed drive | 40 °C continuous current I _{Lout} [A] | 690 V supply power 40 °C LO [kW] | 600 V supply power 40 °C LO [HP] | 50 °C continuous current I _{Hout} [A] | 690 V supply power 50 °C HO [kW] | 600 V supply power 50 °C HO [HP] | current Is (2s) [A] | Enclosure size | | |
| VACON 0100-3L-0007-7-xxxx | | | 7.5 | 5.5 | 5 | 5.5 | 4 | 3 | 11 | | | |
| VACON 0100-3L-0010-7-xxxx | | | 10 | 7.5 | 7.5 | 7.5 | 5.5 | 5 | 15 | | | |
| VACON 0100-3L-0013-7-xxxx | | | 13.5 | 11 | 10 | 10 | 7.5 | 7.5 | 20 | | | |
| VACON 0100-3L-0018-7-xxxx | | | 18 | 15 | 15 | 13.5 | 11 | 10 | 27 | MR6 | | |
| VACON 0100-3L-0022-7-xxxx | | | 22 | 18.5 | 20 | 18 | 15 | 15 | 36 | | | |
| VACON 0100-3L-0027-7-xxxx | | | 27 | 22 | 25 | 22 | 18.5 | 20 | 44 | | | |
| VACON 0100-3L-0034-7-xxxx | | | 34 | 30 | 30 | 27 | 22 | 25 | 54 | | | |
| VACON 0100-3L-0041-7-xxxx | | | 41 | 37 | 40 | 34 | 30 | 30 | 68 | | | |
| VACON 0100-3L-0052-7-xxxx | | | 52 | 45 | 50 | 41 | 37 | 40 | 82 | MR7 | | |
| VACON 0100-3L-0062-7-xxxx | | | 62 | 55 | 60 | 52 | 45 | 50 | 104 | | | |
| VACON 0100-3L-0080-7-xxxx | * | -ED | 80 | 75 | 75 | 62 | 55 | 60 | 124 | | | |
| VACON 0100-3L-0100-7-xxxx | * | -ED | 100 | 90 | 100 | 80 | 75 | 75 | 160 | MR8 | | |
| VACON 0100-3L-0125-7-xxxx | * | -ED | 125 | 110 | 125 | 100 | 90 | 100 | 200 | | | |
| VACON 0100-3L-0144-7-xxxx | * | -ED | 144 | 132 | 150 | 125 | 110 | 125 | 250 | | | |
| VACON 0100-3L-0170-7-xxxx | * | -ED | 170 | 160 | 150 | 144 | 132 | 150 | 288 | MR9 | | |
| VACON 0100-3L-0208-7-xxxx | * | -ED | 208 | 200 | 200 | 170 | 160 | 150 | 340 | | | |
| VACON 0100-3L-0261-7-xxxx | ** | -ED | 261 | 250 | 250 | 208 | 200 | 200 | 416 | | | |
| VACON 0100-3L-0325-7-xxxx | ** | -ED | 325 | 315 | 300 | 261 | 250 | 250 | 522 | MR10 | | |
| VACON 0100-3L-0385-7-xxxx | ** | -ED | 385 | 355 | 400 | 325 | 315 | 300 | 650 | IVINIO | | |
| VACON 0100-3L-0416-7-xxxx | ** | -ED | 416 | 400 | 450 | 385 | 355 | 300 | 770 | | | |
| VACON 0100-3L-0460-7-xxxx | ** | -ED | 460 | 450 | 450 | 416 | 400 | 400 | 832 | | | |
| VACON 0100-3L-0520-7-xxxx | ** | -ED | 520 | 500 | 500 | 460 | 450 | 450 | 920 | | | |
| VACON 0100-3L-0590-7-xxxx | ** | -ED | 590 | 560 | 600 | 520 | 500 | 500 | 1040 | MR12 | | |
| VACON 0100-3L-0650-7-xxxx | ** | -ED | 650 | 630 | 650 | 590 | 560 | 600 | 1180 | IVIR I Z | | |
| VACON 0100-3L-0750-7-xxxx | ** | -ED | 750 | 710 | 700 | 650 | 630 | 650 | 1300 | | | |
| VACON 0100-3L-0820-7-xxxx | ** | -ED | 820 | 800 | 800 | 650 | 630 | 650 | 1300 | | | |

* IP00 & IP21and IP54 ** IP00

Technical data

VACON® 100 INDUSTRIAL, VACON® 100 FLOW

| Mains connection | Input voltage | 208-240 V; 380-500 V; 525-690 V | | | | | | |
|--------------------|-------------------------------------|---|--|--|--|--|--|--|
| | Input frequency | 50-60 Hz | | | | | | |
| Motor connection | Output voltage | 0-Input voltage | | | | | | |
| | Output frequency | 0-320 Hz | | | | | | |
| Control connection | I/O | 2 x Al, 6 x Dl, 1 x AO, 10 Vref, 24 Vin, 2 x 24 Vout, 3 x RO or 2 x RO + TI | | | | | | |
| | Ethernet | Modbus TCP/IP, BACnet IP, PROFINET, EtherNet/IP | | | | | | |
| | RS485 | Modbus RTU, Metasys N2, BACnet MSTP | | | | | | |
| Ambient conditions | Ambient operating temperature | -10 °C-50 °C (-14 °F-122 °F), derating 1,5%/1 °C above 40 °C (104 °F) | | | | | | |
| | Enclosure class | IP21/UL Type 1 as standard | | | | | | |
| | | IP54/UL Type 12 as option | | | | | | |
| | | IP00 for frames MR8-MR12 | | | | | | |
| EMC | Immunity | IEC 61800-3, first and second environment | | | | | | |
| | Emissions | IEC 61800-3, Category C2 | | | | | | |
| | | IEC 61800-3, Category C3 for IP00 modules and enclosed drives | | | | | | |
| Functional safety | Safe Torque Off Option board OPT-BJ | | | | | | | |

Dimensions

VACON® 100 INDUSTRIAL, VACON® 100 FLOW

| Frame size | IP21 and IP54 | | | | IP00 | | | | Enclosed drive IP21 and IP54 | | | | | |
|---------------|------------------|--------------------|------|------|-------------------|---------------------|-------|------|------------------------------|--------------------|-----|--------|--|--|
| | W x H x D | | | ght | WxHxD | | Wei | ight | W x H x D | | | Weight | | |
| | mm | mm inch | | lb | mm | inch | kg Ib | | mm | inch | kg | lb | | |
| MR4 | 128 x 328 x 190 | 5 x 12.9 x 7.5 | 6 | 13.2 | | | | | | | | | | |
| MR5 | 144 x 419 x 214 | 5.7 x 16.5 x 8.4 | 10 | 22 | | | | | | | | | | |
| MR6 | 195 x 557 x 229 | 7.7 x 21.9 x 9 | 20 | 44.1 | | | | | | | | | | |
| MR7 | 237 x 660 x 259 | 9.3 x 26 x 10.2 | 37.5 | 82.7 | | | | | | | | | | |
| MR8 | 290 x 966 x 343 | 11.4 x 38 x 13.5 | 66 | 146 | 290 x 794 x 343 | 11.4 x 31.3 x 13.5 | 62 | 137 | 406 x 2100 x 600 | 16.0 x 82.7 x 23.6 | 200 | 440 | | |
| MR9 | 480 x 1150 x 365 | 18.9 x 45.3 x 14.4 | 120 | 264 | 480 x 840 x 365 | 18.9 x 33.1 x 14.4 | 104 | 228 | 606 x 2100 x 600 | 23.9 x 82.7 x 23.6 | 270 | 595 | | |
| MR10 | | | | | 508 x 980 x 525* | 20.0 x 38.6 x 20.7* | 205 | 452 | 606 x 2100 x 600 | 23.9 x 82.7 x 23.6 | 420 | 925 | | |
| MR12 | | | | | 1016 x 980 x 525* | 40.0 x 38.6 x 20.7* | 410 | 905 | 1212 x 2100 x 600 | 47.7 x 82.7 x 23.6 | 850 | 1870 | | |

* without options module

Documentation options

| Factory options | Description | Factory options | Documentation language (availability varies with product) |
|--------------------|--|--------------------|--|
| +DPAP | Full manuals supplied (Default for enclosed drives and IP00 drives) | +DLGR | Greek |
| | | +DLHU | Hungarian |
| +DQCK | Only Quick Guide manuals supplied (Default for wall-mount drives) | +DLIT | Italian |
| +DNOT | User documentation not included | +DLLT | Lithuanian |
| Factory | Documentation language | +DLLV | Latvian |
| options | (availability varies with product) | +DLNL | Dutch |
| +DLUK | English (included as default) | +DLNO | Norwegian |
| +DLBR | Portuguese (Brazilian version) | +DLPL | Polish |
| +DLCN | Chinese | +DLPT | Portuguese |
| +DLCZ | Czech | +DLRO | Romanian |
| +DLDE | German | +DLRU | Russian |
| +DLDK | Danish | +DLSE | Swedish |
| +DLEE | Estonian | +DLSI | Slovenian |
| +DLES | Spanish | +DLSK | Slovak |
| +DLFI | Finnish | +DLTR | Turkish |
| +DLFR | French | | |

Options

VACON® 100 INDUSTRIAL, VACON® 100 FLOW

| VACON | | AL, VACON® 100 FLOW | | | | n slo | t | | AC drive | | |
|-------------------|--|--|---|---|-------|-------|---|----------------------------|----------------------|----------|--|
| Factory option | Loose option | Desc | ription | В | C | D | E | VACON 100 INDUSTRIAL | VACON 100 FLOW | Enclosed | |
| I/O optio | | | | | | | | | | | |
| | OPT-F3-V | Standard I/O board: 2 x AI, 6 x DI, 1 x AO, 1 | | • | • | | | • | - | - | |
| +SBF4 | OPT-F4-V | Optional I/O board: 2 x Al, 6 x Dl, 1 x AC 2 x RO, Thermistor input |), 10 viei, 24 vin, 2 x 24 voul, R5485, | • | | | | - | - | - | |
| +S_B1* | OPT-B1-V | 6 x DI / DO, programmable | | | | | | | | | |
| +S_B2* | OPT-B2-V | 2 x RO, Thermistor input | | | | | | | | | |
| +S_B4* | OPT-B4-V | 1 x Al, 2 x AO (isolated) | | | • | • | • | • | | • | |
| +S_B5* | OPT-B5-V | 3 x RO | | | • | • | • | | • | - | |
| +S_B9* | OPT-B9-V | 1 x RO, 5 x DI (42-240 VAC) | 1 x RO, 5 x DI (42-240 VAC) | | | | • | • | • | • | |
| +S_BF* | OPT-BF-V | 1 x AO, 1 x DO, 1 x RO | | | • | | • | • | • | • | |
| +S_BH* | OPT-BH-V | 3 x Temp sensor inputs (PT100, PT1000, KT | Y84-130, KTY84-150, KTY84-131, NI1000) | | • | - | - | • | • | • | |
| | nication options | | | | | | | _ | _ | _ | |
| +FBIE | ODT CAN | | and EtherNet/IP (software option onboard) | | | | _ | | | | |
| +S_C4* | OPT-C4-V OPT-E3-V | LonWorks | | | | | | | | | |
| +S_E3* +S_E5* | OPT-E5-V | PROFIBUS DPV1 PROFIBUS DPV1 (D9) | | | | | | | | | |
| +5_E5* +S_E6* | OPT-E6-V | CANopen | | | | | | | | | |
| +3_E0 +S_E7* | OPT-E7-V | DeviceNet | | | | | | | | | |
| +S EC* | OPT-EC-V | EtherCAT | | | | - | | | | | |
| Other op | | | | | | | - | _ | _ | | |
| +S_BJ* | OPT-BJ-V | Safe Torque Off (STO) / Safe Stop 1 (SS1 |) / ATEX | | | | | | | | |
| +HMTX | VACON-PAN-HMTX-MK01 | Text keypad | · · · · · · · · · · · · · · · · · · · | | | | | | | | |
| +HMPA | PAN-HMPA-MK01 | Panel adapter IP54 (dummy keypad) | | | | | | | | | |
| +SRBT | | Real time clock battery | | | | | | | | | |
| +IP54 | VACON-ENC-IP54-MR04/05/06 | IP54 enclosure; loose option also availa | ble for frames MR4, MR5, MR6 | | | | | | | | |
| +IP00 | | IP00 available for frames MR8-MR12 | | | | | | | | | |
| +EMC4 | | Change to EMC-level C4 for IT networks | S | | | | | | | | |
| +DBIN | | Internal integrated dynamic braking MI | R7-MR12 | | | | | | | | |
| +QFLG | ENC-QFLG-MR04/05/06/07 | Flange mounting MR4-MR7 / MR8 IP00 Loose option available for frames MR4- | MR7 | | | | | • | • | | |
| +QDSS | | Drive supply switch for MR4-MR7 (IP54) and MM4-MM6 | | | | | | • | • | | |
| +QGLC | | | Conduit plate with inch holes, MR4-MR9 | | | | | • | | • | |
| +EMAR | | Marine construction Integrated Common mode filter for IP00 frames MR10 and MR12 | | | | | | - | | • | |
| +POCM | | and enclosed drives | In Trames MRTO and MRT2 | | | | | • | • | • | |
| +PODU | ENC-QMMF-MM04/05/06 | Integrated dU/dt filter for IP00 frames N | /R10 and MR12 and enclosed drives | | | | | | | | |
| +PCTB | | External power connection block for IP00 frames MR10 and MR12 | | | | | | | | | |
| Kits and | cables | | | | | | | | | | |
| | VACON-PAN-HMDR-MK01-xx | VACON 100 door mounting kit, xx = cal NM (no cable), 2M, 3M, 6M, 15M (2, 3, 6 | | | | | | | | | |
| | VACON-PAN-HMHH-MK01 | Hand held panel kit, VACON brand | | | | | | | | | |
| | CAB-USB/RS485 | PC cable for SW tools, USB to RS-485, ca | , cable length 3 m | | | | | | | | |
| | VACON-ENC-IN12-MR0x | Type 12 kit, 0x = enclosure sizes (04, 05, | , 06) | | | | | | | | |
| * Replace '_ | with preferred option slot (Examp | ole +SCB5 means option board B5 will ins | stalled to option slot C in factory) | | | | | | | | |
| | | | | (| Optio | n slo | t | | AC drive | | |
| Factory option | Enclosed drive option descript | ion | Group | в | с | D | Е | VACON 100 INDUSTRIAL | VACON 100 FLOW | Enclosed | |
| +CAMH | Motor heater control | | Auxiliary equipment | | | | | | FLOW | | |
| +CACH | Cabinet heater | | , assing equipment | | | | | | | | |
| +CACL | Cabinet light | | | | | | | | | | |
| +CAPT | Auxiliary voltage transformer | | Cabinet power supply for accessories | | | | | | | | |
| +CAPD | 24 V DC power supply | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | | | | |
| +CAPS | AC customer socket | | | | | | | | | | |
| +CDLP | Signal lights and reset button | | Door-mounted options | | | | | | | | |
| +CTID | Extended I/O terminals | | Control terminals | | | | | | | | |
| +CAPU | Auxiliary AC supply terminals | | | | | | | | | | |
| +CPS0 | STO with emergency stop push b | outton on door | Protection devices | | | | | | - | | |
| +CPS1 | SS1 with emergency stop push button on door | | | | | | | • | • | • | |
| +CPSB | Emergency switch off | | | | | | | • | | • | |
| +CPIF | Insulation monitoring | | | | | | | | • | | |
| +CIFD | AC fuses and fuse switch | | Input devices | | | | | • | • | | |
| +CICO | Input contactor | | | | | | | | | - | |
| +CHIT | Input cabling from top | | Cabeling options | | | | | | | | |
| +CHOT | Output cabling from top | | | | | | | | | | |
| +CHCT | Cabling from top | | Deep plinth or the s | | - | | | - | | - | |
| +CHPH | Base plinth 200 mm | | Base plinth options | | | | | | - | • | |
| +CHCB +GAUL | Back channel cooling UL listed version | | Cooling options | | | | | • | - | | |
| TGAUL | | | Approvals | | | | | - | - | | |

Options

VACON® 100 INDUSTRIAL, VACON® 100 FLOW

| | | | | Option slot | | | | AC drive | | |
|-------------------|------------------------|---|-------|-------------|---|---|---|----------------------------|----------------------|----------|
| Factory option | Enclosed drive options | Description | Group | в | с | D | E | VACON 100 INDUSTRIAL | VACON 100 FLOW | Enclosed |
| Software | language package: | | | | | | | | | |
| +FL01 | | English, German, Finnish, Swedish, Italian, French | | | | | | • | | |
| +FL02 | | English, German, Finnish, Swedish, Danis | | | | | • | | | |
| +FL03 | | English, Italian, French, Spanish, Portugu | | | | | • | | | |
| +FL04 | | English, German, Polish, Russian, Czech, | | | | | • | | | |
| +FL05 | | English, German, Estonian, Hungarian, Romanian, Turkish | | | | | | • | | |
| +FL06 | | English, Chinese, Russian, Korean | | | | | • | | | |
| +FL07 | | English, German, Slovenian, Croatian, Se | | | | | | | | |

Type code key

VACON® 100 INDUSTRIAL, VACON® 100 FLOW

| VACON0100 | 3L | 0310 | 5 | ED | FLOW | R02 | +IP54 |
|-----------|----|---|------------|-------------------|------|---------|-------|
| VACON0100 | | Product range VACON 100 | e | | | | |
| 3L | | Three-phase | input | | | | |
| 0310 | | Drive rating i e.g. 0310 = 31 | - | | | | |
| 5 | | Supply voltage 2 = 208-240 V 4 = 380-480 V 5 = 380-500 V 6 = 525-600 V 7 = 525-690 V | je | | | | |
| ED | | Enclosure typ (empty) = Driv ED = Enclosed | ve module | | | | |
| FLOW | | | | JSTRIAL, for mul | | cations | |
| R02 | | Regional code (empty) = Inte R02 = North A | ernational | | | | |
| IP54 | | + IP54 = IP54 e Please refer to | | or available opti | ons. | | |

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- n Packaging
- n Pulp and Paper
- **n** Refrigeration
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- **n** Wind

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