

Fact Sheet

# VACON® 100 Wall Mounted Drive



The VACON® 100 Wall Mounted Drive is a compact and comprehensive drive package, with all the necessary components integrated in a single drive.

### For a wide range of applications

The VACON® 100 Wall Mounted Drive is easy to install and operate and is well suited for a wide range of variable torque and constant power/torque applications such as:

- Pumps
- Fans
- Compressors
- Conveyors

### Enclosure ratings

IP21/UL Type 1 (provided as standard)  
IP54//UL Type 12 (provided as option, flange (through-hole) mounting)

### Product 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

### Available for

- VACON® 100 INDUSTRIAL
- VACON® 100 FLOW

Available from  
**0.55 to  
200 kW**  
to fit your application

Feature	Benefit
<b>Reliability</b>	
Film capacitors	Long life, no reforming
Conformal coating	Withstands harsher environments
<b>Ease of installation</b>	
Flange mounting	Easy and cost-effective installation
Side-by-side mounting for IP54/UL Type 12	
Compact IP54/UL Type 12 with same footprint as IP21/UL Type 1	
<b>Integrated options</b>	
Safe Torque Off option	Built-in safety
Integrated RFI filter and DC chokes	No additional filters required
Built-in Ethernet	Immediately connected, no additional hardware
<b>Versatile</b>	
Wide motor support: Induction, PM (permanent magnet) and SynRM (high-efficiency synchronous reluctance)	Only one drive needed
<b>Flexible</b>	
Drive® Customizer	Flexible programming always available
Drive® Programming	61131 application programming

## Specifications

Mains connection	
Input voltage	208-240 V; 380-500 V; 525-600 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 AI, 6 x DI, 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)
Protection rating	IP21/UL Type 1 as standard IP54/UL Type 12 as option
EMC	
Immunity	IEC 61800-3, first and second environment
Emissions	IEC 61800-3, Category C2
Functional safety	
Safe Torque Off	Option board OPT-BJ

## Options

Factory option	Loose option	Description
<b>I/O options</b>		
	<b>OPT-F3-V</b>	Standard I/O board: 2 x AI, 6 x DI, 1 x AO, 10 Vref, 24 Vin, 2 x 24 Vout, RS485, 3 x RO
<b>+SBF4</b>	<b>OPT-F4-V</b>	Optional I/O board: 2 x AI, 6 x DI, 1 x AO, 10 Vref, 24 Vin, 2 x 24 Vout, RS485, 2 x RO, Thermistor input
<b>+S_B1*</b>	<b>OPT-B1-V</b>	6 x DI / DO, programmable
<b>+S_B2*</b>	<b>OPT-B2-V</b>	2 x RO, Thermistor input
<b>+S_B4*</b>	<b>OPT-B4-V</b>	1 x AI, 2 x AO (isolated)
<b>+S_B5*</b>	<b>OPT-B5-V</b>	3 x RO
<b>+S_B9*</b>	<b>OPT-B9-V</b>	1 x RO, 5 x DI (42-240 VAC)
<b>+S_BF*</b>	<b>OPT-BF-V</b>	1 x AO, 1 x DO, 1 x RO
<b>+S_BH*</b>	<b>OPT-BH-V</b>	3 x Temp sensor inputs (PT100, PT1000, KTY84-130, KTY84-150, KTY84-131, NI1000)
<b>Communication options</b>		
<b>+FBIE</b>		Industrial Ethernet protocols: PROFINET IO and EtherNet/IP (software option onboard)
<b>+S_C4*</b>	<b>OPT-C4-V</b>	LonWorks
<b>+S_E3*</b>	<b>OPT-E3-V</b>	PROFIBUS DPV1
<b>+S_E5*</b>	<b>OPT-E5-V</b>	PROFIBUS DPV1 (D9)
<b>+S_E6*</b>	<b>OPT-E6-V</b>	CANopen
<b>+S_E7*</b>	<b>OPT-E7-V</b>	DeviceNet
<b>+S_E9*</b>	<b>OPT-E9-V</b>	Dual Ethernet communication board (Modbus TCP, PROFINET)
<b>+S_EC*</b>	<b>OPT-EC-V</b>	EtherCAT
<b>Other options</b>		
<b>+S_BJ*</b>	<b>OPT-BJ-V</b>	Safe Torque Off (STO) / Safe Stop 1 (SS1) / ATEX
<b>+HMTX</b>	<b>VACON-PAN-HMTX-MK01</b>	Text keypad
<b>+HMPA</b>	<b>PAN-HMPA-MK01</b>	Panel adapter IP54 (dummy keypad)
<b>+SRBT</b>		Real-time clock battery
<b>+IP54</b>	<b>VACON-ENC-IP54-MR04/05/06</b>	IP54 enclosure; loose option also available for enclosures MR4, MR5, MR6
<b>+EMC4</b>		Change to EMC-level C4 for IT networks
<b>+DBIN</b>		Internal integrated dynamic braking MR7-MR12
<b>+QFLG</b>	<b>ENC-QFLG-MR04/05/06/07</b>	Flange mounting MR4-MR7. Loose option available for enclosures MR4-MR7
<b>+QDSS</b>		Drive supply switch for MR4-MR7 (IP54)
<b>+QGLC</b>		Conduit plate with inch holes, MR4-MR9
<b>+EMAR</b>		Marine construction

\* Replace '\_' with preferred option slot (Example +SCB5 means option board B5 will be installed to option slot C in factory)