

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
Reliability	
Film capacitors	Long life, no reforming
Conformal coating	Withstands harsher environments
Ease of installation	
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	
Integrated options	
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
Versatile	
Wide motor support: Induction, PM (permanent magnet) and SynRM (high-efficiency synchronous reluctance)	Only one drive needed
Flexible	
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
I/O options		
	OPT-F3-V	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
+SBF4	OPT-F4-V	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
+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 AI, 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)
+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, KTY84-130, KTY84-150, KTY84-131, NI1000)
Communication options		
+FBIE		Industrial Ethernet protocols: PROFINET IO and EtherNet/IP (software option onboard)
+S_C4*	OPT-C4-V	LonWorks
+S_E3*	OPT-E3-V	PROFIBUS DPV1
+S_E5*	OPT-E5-V	PROFIBUS DPV1 (D9)
+S_E6*	OPT-E6-V	CANopen
+S_E7*	OPT-E7-V	DeviceNet
+S_E9*	OPT-E9-V	Dual Ethernet communication board (Modbus TCP, PROFINET)
+S_EC*	OPT-EC-V	EtherCAT
Other options		
+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 available for enclosures MR4, MR5, MR6
+EMC4		Change to EMC-level C4 for IT networks
+DBIN		Internal integrated dynamic braking MR7-MR12
+QFLG	ENC-QFLG-MR04/05/06/07	Flange mounting MR4-MR7. Loose option available for enclosures MR4-MR7
+QDSS		Drive supply switch for MR4-MR7 (IP54)
+QGLC		Conduit plate with inch holes, MR4-MR9
+EMAR		Marine construction

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