

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)