

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	Χ	208-240 V	•	0.55-90	kW
3	Χ	380-500 V	, 	1.1-160	kW
3	Χ	525-600 V	· ·	3.0-200	ΗP
3	Χ	525-690 V		5.5-200	kW

Available for

- VACON® 100 INDUSTRIAL
- VACON® 100 FLOW

Available from to fit your application

Feature	Benefit			
Reliability				
Film capacitors	Long life, no reforming			
Conformal coating	Withstands harsher environments			
Ease of installation				
Flange mounting				
Side-by-side mounting for IP54/UL Type 12	Easy and cost-effective installation			
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 Al, 6 x Dl, 1 x AO, 10 Vref, 24 Vin, 2 x 24 Vout, 3 x RO or 2 x RO + Tl			
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			
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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 Al, 6 x Dl, 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 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)	
+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 option	ons		
+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	

 $^{* \}textit{Replace $\underline{'}$ is with preferred option slot (Example + SCB5 means option board B5 will installed to option slot C in factory) \\$

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