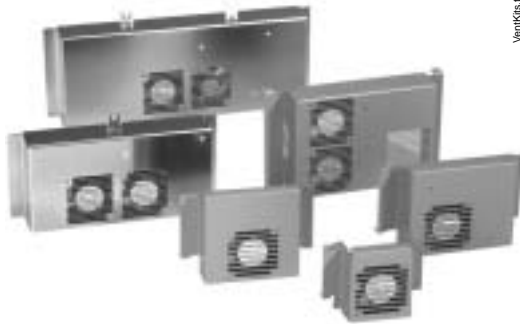


**VENTILATION KITS**

Ventilation kits enable the ATV58 TRX controller to operate at a higher ambient temperature as, for example, when mounted in an enclosure. The circulation of air around the electronic cards prevents the formation of hot spots. The fan kit attaches to the upper part of the controller, and is powered by the drive controller.

A ventilation kit contains the fan assembly, all necessary mounting accessories, and a power cable connector that plugs into the power board on the drive controller.

See page 115 for temperature ratings and page 125 for dimensions.



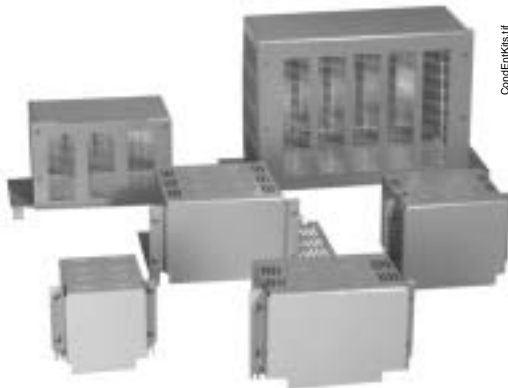
VentKits.tif

**Ventilation Kits**

Ventilation Kit for	Catalog Number
ATV58•U09M2, ATV58•U18M2	VW3A58821
ATV58•U29M2, ATV58•U41M2, ATV58•U18N4, ATV58•U41N4	VW3A58822
ATV58•U54M2, ATV58•U72M2, ATV58•U54N4, ATV58•U72N4, ATV58•U90N4	VW3A58823
ATV58•U90M2, ATV58•D12M2, ATV58•D12N4, ATV58•D16N4, ATV58•D23N4	VW3A58824
ATV58HD16M2X, ATV58HD23M2X, ATV58HD28N4, ATV58HD33N4, ATV58HD46N4, ATV58HD28N4X, ATV58HD33N4X, ATV58HD46N4X	VW3A58825
ATV58HD28M2X, ATV58HD33M2X, ATV58HD46M2X, ATV58HD54N4, ATV58HD64N4, ATV58HD79N4, ATV58HD54N4X, ATV58HD64N4X, ATV58HD79N4X	VW3A58826

**CONDUIT ENTRY KITS**

Conduit Entry Kits are for use on wall-mounted drive controllers. A conduit entry kit attaches to the bottom of the drive and provides multiple knockouts to land conduit for power and control wire. The available kits are shown in the table below. See page 115 for enclosure ratings and pages 123–124 for dimensions.



ConduitEntryKits.tif

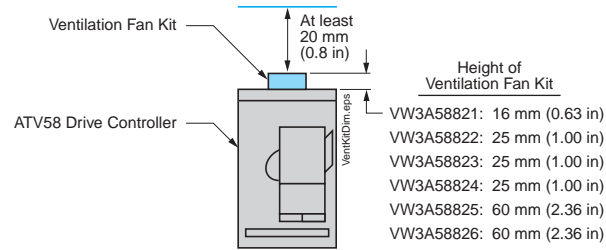
**Conduit Entry Kits**

Catalog Number	For Drive Controllers	
	230 Vac	460 Vac
VW3A58842	ATV58HU09M2 ATV58HU18M2	—
VW3A58843	ATV58HU29M2 ATV58HU41M2	ATV58HU18N4 ATV58HU29N4 ATV58HU41N4
VW3A58844	ATV58HU54M2 ATV58HU72M2	ATV58U54N4 ATV58U72N4 ATV58U90N4
VW3A58845	ATV58HU90M2 ATV58HD12M2	ATV58HD12N4 ATV58HD16N4 ATV58HD23N4
VW3A58846	ATV58HD16M2 ATV58HD23M2	ATV58HD28N4 ATV58HD23N4 ATV58HD46N4
VW3A58847	ATV58HD28M2 ATV58HD33M2 ATV58HD46M2	ATV58HD54N4 ATV58HD64N4 ATV58HD79N4
VW3A58848 <sup>1</sup>		ATV58HC10N4X
VW3A58849 <sup>1</sup>		ATV58HC13N4X ATV58HC15N4X ATV58HC19N4X
VW3A58850 <sup>1</sup>		ATV58HC23N4X ATV58HC25N4X ATV58HC28N4X ATV58HC31N4X ATV58HC33N4X

<sup>1</sup> Availability to be announced.

# Altivar® 58 TRX AC Drives Dimensions

## Ventilation Fan Kits (VW3A58821 to VW3A58826)



## Single-Phase Line Reactors (VW3A58501 and VW3A58502)

		A mm (in)	B mm (in)	φ mm (in)
	VW3A58501	95 (3.7)	65 (2.6)	5 x 11 (0.20 x 0.43)
	VW3A58502	105 (4.1)	77 (3.0)	6 x 12 (0.24 x 0.47)

## RFI Input Filters (EMC) (VW3A58401 to VW3A58407)

		a mm (in)	b mm (in)	c mm (in)	G mm (in)	H mm (in)	φ mm (in)
	VW3A58401	113 (4.5)	246 (9.7)	36 (1.4)	94.5 (3.7)	230 (9.1)	5 (0.20)
	VW3A58402	150 (5.9)	276 (10.9)	50 (2.0)	133 (5.2)	260 (10.2)	5 (0.20)
	VW3A58403	175 (6.9)	340 (13.4)	60 (2.4)	153 (6.0)	320 (12.6)	6 (0.24)
	VW3A58404	230 (9.1)	390 (15.4)	60 (2.4)	200 (7.9)	370 (14.6)	6 (0.24)
	VW3A58405	230 (9.1)	480 (18.9)	60 (2.4)	200 (7.9)	460 (18.1)	6 (0.24)
	VW3A58406	240 (9.5)	690 (27.2)	85 (3.3)	205 (8.1)	650 (25.6)	7 (0.28)
	VW3A58407	240 (9.5)	690 (27.2)	85 (3.3)	205 (8.1)	650 (25.6)	7 (0.28)
	VW3A58408	350 (13.8)	770 (30.3)	90 (3.5)	300 (11.8)	770 (30.3)	9 (0.35)

## Plate for EMC Mounting

	EMC Kit Number	Mount on:	b mm (in)	Diameter of Tapped Holes in Plate
	VW3A58831	ATV58U09M2, ATV58U18M2	63 (2.48)	M4
	VW3A58832	ATV58U29M2, ATV58U41M2, ATV58U18N4, ATV58U29N4, ATV58U41N4	64.5 (2.54)	M4
	VW3A58833	ATV58U54M2, ATV58U72M2, ATV58U54N4, ATV58U72N4, ATV58U90N4		
	VW3A58834	ATV58U90M2, ATV58D12M2, ATV58D12N4, ATV58D16N4, ATV58D23N4	62 (2.44)	M4

# Altivar® 58 TRX AC Drives Selection



ATV58 NEMA4X2L\_w no back.tif

## Available Type N Models

Input Line Voltage	Constant Torque		Output Current	Catalog Number without Keypad
	Horsepower	Kilowatts	Amperes	
208/230 Vac Single-Phase	0.5	0.37	2.3	ATV58NU09M2KU
	1	0.75	4.1	ATV58NU18M2KU
	2	1.5	7.8	ATV58NU29M2KU
	3	2.2	11	ATV58NU41M2KU
208/230 Vac 3-Phase	2	1.5	7.8	ATV58NU29M2KU
	3	2.2	11	ATV58NU41M2KU
	—	3	13.7	ATV58NU54M2KU
	5	4	18.2	ATV58NU72M2KU
400/460 Vac 3-Phase	1	0.75	2.3	ATV58NU18N4KU
	2	1.5	4.1	ATV58NU29N4KU
	3	2.2	5.8	ATV58NU41N4KU
	5	4	10.5	ATV58NU72N4KU
	7.5	5.5	13	ATV58NU90N4KU
	10	7.5	17.6	ATV58ND12N4KU



OpInterfaceNew.tif

## Operator Interface Options

## Options (Field Installed)

Option	Description	For Use On:	Catalog Number
Operator Interface	Keypad Keypad Remote Mount Kit (IP65 Rating) PowerSuite Software for PC and PPC PC Cable Connection Kit to Connect PC to Drive Pocket PC Connection Kit to Connect PPC to Drive Closing Plate Kit Keypad Mount Kit	All ATV58 models Only ATV58 Type H and FVC All ATV58 models All ATV58 models All ATV58 models Only ATV58 Type N Only ATV58 Type N	VW3A58101U VW3A58103 VW3A8104 VW3A8106 VW3A8111 VW3A58836 VW3A58837
I/O Extension Cards	Analog I/O Option Card <i>Provides 2 logic inputs, 1 logic output, 1 analog output, and 1 bipolar analog input.</i>	All ATV58 models	VW3A58201U
	Digital I/O Option Card <i>Provides 2 logic inputs, 1 logic output, 1 analog output, and A-, B-, B- logic inputs for encoder speed feedback.</i>	All ATV58 models	VW3A58202U
Application Option Cards	Pump Switching Card <i>Sequences up to five pumps with one drive controller</i>	ATV58 Type E, F, H, and N	VW3A58210U
	115 Vac ATV58 TRX Logic Input Module <i>Provides 115 Vac conversion for logic inputs LI1, LI2, LI3, &amp; LI4</i>	ATV58 Type H and N	VW3A58275U
0–10 V to 4–20 mA Converter	Converts a 0–10 V analog voltage signal to a 4–20 mA analog current signal.	ATV58 Type H and N	31158-297-50
Communication	FIPIO Communication Card Modbus+ Communication Card Modbus/Unitelway Communication Card Interbus S Communication Card AS-i Communication Card RS-485 Cable with Modbus Mapping Guide Profibus DP Communication Card CANopen Communication Card Device Net Communication Card Ethernet Modbus TCP/IP Communication Card FIPIO Communication Card LonWorks to Modbus DIN Rail Mount Gateway Johnson Controls N2 Communication Card	ATV58 Type E, F, H, and N ATV58 Type E, F, H, N, and FVC ATV58 Type E, F, H, N, and FVC ATV58 Type E, F, H, N, and FVC ATV58 Type E, F, H, N, and FVC ATV58 Type E, F, H, N, and FVC ATV58 Type E, F, H, N, and FVC ATV58 Type E, F, H, N, and FVC ATV58 Type E, F, H, N, and FVC ATV58 Type E, F, H, N, and FVC ATV58 Type E, F, H, N, and FVC ATV58 Type H 125–500 hp & FVC ATV58 Type E, F, H, and N ATV58 Type E, F, H, and N	VW3A58301U VW3A58302U VW3A58303U VW3A58304EU VW3A58305 VW3A58306U VW3A58307U VW3A58308 VW3A58309U VW3A58310U VW3A58311U VW3A58312PU VW3A58354U
Fan Kit	Ventilation Fan Kit <i>These kits mount directly to the top of the ATV58 Type FVC and Type H controllers and are powered from the controller.</i>	ATV58•U09M2, U18M2	VW3A58821
		ATV58•U29M2, U41M2 ATV58•U18N4, U29N4, U41N4	VW3A58822
		ATV58•U54M2, U72M2 ATV58•U54N4, U72N4, U90N4	VW3A58823
		ATV58•U90M2, D12M2 ATV58•D12N4, D16N4, D23N4	VW3A58824
		ATV58•D16M2, D23M2 ATV58•D28N4, D33N4, D46N4	VW3A58825
		ATV58•D28M2, D33M2, D46M2 ATV58•D54N4, D64N4, D79N4	VW3A58826



I\_O cards\_b\_w no back.tif

## I/O Extension Cards



com cards\_b\_w no back.tif

## Communication Options



fans\_b\_w no back.tif

## Ventilation Fan Kits