

# Data Bulletin

## ALTIVAR® 18 Options

### Remote Display Device, PC Connection Options, Dynamic Braking Resistors, Line Reactors/Inductors, Bi-Polar Reference Module, and Analog Output Module

#### INTRODUCTION

The ALTIVAR 18 (ATV18) drive for 3-phase asynchronous squirrel cage motors incorporates the latest technological developments. It is an open loop vector drive, offering compact design and flexible capabilities to meet a wide variety of applications. Ideally suited for OEMs, the ATV18 drive extends its capabilities via accessories and options. It is robust and compact, conforming to international standards. The ATV18 is a universal product.

#### REMOTE DISPLAY DEVICE



Figure 1: Remote Display Device

The Remote Display Device for the ATV18 includes one red LED on the front panel. When the LED is ON it indicates that the drive is powered up. The display is coded via a 4-character, 7-segment keypad display.

The device can be used with all ranges of ATV18's.

Order product number VW3A18106.

#### PC CONNECTION OPTIONS



Figure 2: PC Connection Options Kit

The PC Connection option kit allows you to connect the ATV18 drive to a personal computer. It contains software that lets you to set the drive parameters, configuration, and application settings, plus connection cables and an adaptation module.

Table 1: PC Connection Options ordering information

Description	Catalog Number	Weight
RS232C PC Connection Option with software (6)	VW3A18104	1.1 lb. (0.5 kg)

(6) Kit contains one 16.4 ft. (5 m) connection cable for the PC; one 11.48 ft. (3.5m) connection cable for the drive, one adaptation module; and 3-1/2 in. diskettes containing the software.

#### DYNAMIC BRAKING RESISTORS

Dynamic braking resistors allow the ATV18 drive to operate in quadrants two and four of the torque-speed curve by displacing braking energy. The resistors are provided in a Type 1 enclosure and are thermally protected. Applications include machines with high inertia, overhauling loads, and machines with fast cycles.

Table 2: Dynamic Braking Resistors Ordering Information

For Drives	Catalog Number
ATV18U09M2, U18M2, U18N4, U29N4, U41N4, U54N4	VW3A66711
ATV18U29M2, U72N4, U90N4, D12N4	VW3A66712
ATV18U41M2, U54M2, U72M2, D16N4, D23N4	VW3A66713
ATV18U90M2, D12M2	VW3A66714

## LINE REACTORS/INDUCTORS

Line Reactors provide improved protection against over voltages on the input supply and reduce harmonic distortion of the current produced by the drive. The inductors recommended are open style, 5 percent impedance rated line inductors from MTE Corporation. Equivalent inductors from other manufacturers may be used.

The use of inductors is recommended in the following cases:

- Input supply with significant interference from other equipment
- Input supply with a voltage imbalance between phases >1.8 percent of the nominal voltage
- Drive supplied by a line with low impedance (close to transformers ten times more powerful than the drive)
- Large number of drives installed on the same supply.

For more information, see the ATV18 AC Drives Catalog Number 8805CT9701 06/97.

## BIPOLAR REFERENCE MODULE

The Bipolar Reference Module is used to convert the composite input of speed/direction to two separate inputs of speed and direction. The conversion allows for a 0-10V speed reference and a forward/reverse direction.

The Bi-Polar Reference Module has an input value of +/- 10 V, an output value of 0-10 V, and two contacts for forward/reverse. It can be used with all ranges of ATV18 drives.

Order catalog number VW3A16903.

## ANALOG OUTPUT MODULE



Figure 3: Analog Output Module

The Analog Output Module provides an external analog output because the ATV18 does not provide this output internally.

The Analog Output Module uses 4-20 mA dc representing a selected performance parameter. A 3.3 ft. cable and connector are included. It can be used on all ranges of ATV18 drives.

Order catalog number VW3A18107.