

## Altivar® 312 Variable Frequency Drives

Ideally suited to the needs of Material Handling, Packaging, Food, Beverage, Pump, Fan and other OEM machines, the Altivar 312 Variable Frequency Drive offers the highest overtorque and is the only Drive in its class with a remote graphical keypad. The Altivar 312 Drive redefines the concept of "ease of use" by integrating the best-in-class features from the entire family of Altivar Drives into its user interface. This starts with an intuitive rotary wheel for navigation and adjustments, as well as large control buttons on the face of the drive, protected by a snap-lock seal. You can also use advanced features such as the same graphical keypad used with the Altivar 61 and 71 Drives, the new LED display of the Altivar 12 Drive or even bluetooth wireless technology and your mobile phone.

**Features:**

- ▶ Temperatures from -10° C to 50° C without Derating
- ▶ Coated Cards as Standard (IEC 60721-3-3 Classes 3c2 and 3s2)
- ▶ Excellent Resistance to Power Supply and Motor Interference
- ▶ 0.25 HP to 20 HP
- ▶ Large Voltage Range
- ▶ UL Type 1 Kit
- ▶ Integrated Class 2 EMC Filter for Radiated and Conducted Emissions
- ▶ Positive and Negative Logic
- ▶ DIN Rail Mounting
- ▶ Ec/En 61800-5-1
- ▶ IEC/En 61800-3 (Environments 1 and 2, C1 to C3)
- ▶ UL, CSA, Ce, C-Tick, Nom and GOST


**ATV312H055M2**

**ATV312H075M3**

**ATV312H075N4**

**ATV312HU30N4**

**ATV312HU75N4**

### 208/230 VAC Single-Phase

Stock No.	Mfr.'s Type	Input Voltage	Output Voltage	Motor Power kW	Motor Power HP	Current Rating Amps	EACH
70008022	ATV312H018M2	240 V Single-Phase	230 V Three-Phase	0.18	0.25	1.5	278.48
70008023	ATV312H037M2	240 V Single-Phase	230 V Three-Phase	0.37	0.50	3.3	298.23
70008024	ATV312H055M2	240 V Single-Phase	230 V Three-Phase	0.55	0.75	3.7	317.97
70008025	ATV312H075M2	240 V Single-Phase	230 V Three-Phase	0.75	1.00	4.8	348.11
70008026	ATV312HU11M2	240 V Single-Phase	230 V Three-Phase	1.10	1.50	6.9	377.20
70008027	ATV312HU15M2	240 V Single-Phase	230 V Three-Phase	1.50	2.00	8.0	417.73
70008028	ATV312HU22M2	240 V Single-Phase	230 V Three-Phase	2.20	3.00	11.0	486.30

### 208/230 VAC Three-Phase

Stock No.	Mfr.'s Type	Input Voltage	Output Voltage	Motor Power kW	Motor Power HP	Current Rating Amps	EACH
70008029	ATV312H018M3	240 V Three-Phase	230 V Three-Phase	0.18	0.25	1.5	268.09
70008030	ATV312H037M3	240 V Three-Phase	230 V Three-Phase	0.37	0.50	3.3	298.23
70008031	ATV312H055M3	240 V Three-Phase	230 V Three-Phase	0.55	0.75	3.7	317.97
70008032	ATV312H075M3	240 V Three-Phase	230 V Three-Phase	0.75	1.00	4.8	337.72
70008033	ATV312HU11M3	240 V Three-Phase	230 V Three-Phase	1.10	1.50	6.9	377.20
70008034	ATV312HU15M3	240 V Three-Phase	230 V Three-Phase	1.50	2.00	8.0	437.47
70008035	ATV312HU22M3	240 V Three-Phase	230 V Three-Phase	2.20	3.00	11.0	496.69
70008036	ATV312HU30M3	240 V Three-Phase	230 V Three-Phase	3.00	4.00	13.7	575.67
70008037	ATV312HU40M3	240 V Three-Phase	230 V Three-Phase	—	5.00	17.5	675.43
70008038	ATV312HU55M3	240 V Three-Phase	230 V Three-Phase	5.50	7.50	27.5	873.90
70008039	ATV312HU75M3	240 V Three-Phase	230 V Three-Phase	7.50	10.00	33.0	1052.63
70008040	ATV312HD11M3	240 V Three-Phase	230 V Three-Phase	11.00	15.00	54.0	1390.34
70008041	ATV312HD15M3	240 V Three-Phase	230 V Three-Phase	15.00	20.00	66.0	1788.32

### 400/480 VAC Three-Phase

Stock No.	Mfr.'s Type	Input Voltage	Output Voltage	Motor Power kW	Motor Power HP	Current Rating Amps	EACH
70008042	ATV312H037N4	480 V Three-Phase	480 V Three-Phase	0.37	0.50	1.5	377.20
70008043	ATV312H055N4	480 V Three-Phase	480 V Three-Phase	0.55	0.75	1.9	407.34
70008044	ATV312H075N4	480 V Three-Phase	480 V Three-Phase	0.75	1.00	2.3	437.47
70008045	ATV312HU11N4	480 V Three-Phase	480 V Three-Phase	1.10	1.50	3.0	466.57
70008046	ATV312HU15N4	480 V Three-Phase	480 V Three-Phase	1.50	2.00	4.1	516.44
70008047	ATV312HU22N4	480 V Three-Phase	480 V Three-Phase	2.20	3.00	5.5	596.45
70008048	ATV312HU30N4	480 V Three-Phase	480 V Three-Phase	3.00	4.00	7.1	675.43
70008049	ATV312HU40N4	480 V Three-Phase	480 V Three-Phase	—	5.00	9.5	714.91
70008050	ATV312HU55N4	480 V Three-Phase	480 V Three-Phase	5.50	7.50	14.3	893.64
70008051	ATV312HU75N4	480 V Three-Phase	480 V Three-Phase	7.50	10.00	17.0	1093.16
70008052	ATV312HD11N4	480 V Three-Phase	480 V Three-Phase	11.00	15.00	27.7	1440.22
70008053	ATV312HD15N4	480 V Three-Phase	480 V Three-Phase	15.00	20.00	33.0	1788.32

The horsepower, wattages and continuous ampere ratings apply to 4 kHz. Open type Altivar® 31 drives can be installed as UL Type 1 with optional conduit.

## Altistart® Motor Soft Starts

The Altistart® 01 soft start enhances starting performance by ensuring a smooth and controlled start for asynchronous motors, while providing torque surge suppression during both the starting and stopping operation. This highly functional mini soft start can help to decrease your maintenance work and production downtime by preventing the mechanical shocks that create wear and tear on your motor and machinery. Providing a typical panel savings of 25%, the Altistart® 01 is one of the most compact soft starts available and features simple installation through DIN rail mounting and a removable control wiring terminal. Most Altistart® 01 models are available in a 45 mm width to match the industry standard for IEC motor starters rated at or below 32 amps. Offered in three performance levels, the Altistart® 01 provides an efficient soft start solution for a variety of applications.

- ▶ Two LEDs to Indicate "Power-ON" and Motor "Up-to-Speed" (Full Voltage)
- ▶ Selectable Kickstart for "Hard-to-Start" Loads
- ▶ A Built-In Bypass Contactor for Cool, Reliable Operation
- ▶ 45 mm Width (ATS01N1)
- ▶ DIN Rail or Panel Mounting
- ▶ Soft Start and Soft Stop: 1-10 Second Ramp

**ATS01N1 Family:**

- ▶ Soft Start (No Soft Stop): 1-5 Second Ramp
- ▶ Motor Voltage: 110, 230, 400, 460 V
- ▶ Three-Phase Motor: 1/2 to 7.5 HP
- ▶ Single-Phase Motor: 1/4 to 2 HP
- ▶ External Control Power: 24 VAC/VDC or 110-230 VAC

**ATS01N2 Family:**

- ▶ Soft Start and Soft Stop: 1-10 Second Ramp
- ▶ Motor Voltage: 230, 400, 460 V
- ▶ Three-Phase Motor: 1 to 20 HP
- ▶ External Control Power: No Control Power Necessary


**ATS01N103FT**

Stock No.	Mfr.'s Type	Amps	Motor Power								EACH
			Single-Phase				Three-Phase				
			110 V	230 V		208 V	230 V		400 V	460 V	
70007399	ATS01N103FT	3	—	0.37 kW	1/4 HP	0.5 HP	0.37-0.55 kW	1-2.0 HP	1.1 kW	1-1.5 HP	120.03
70007400	ATS01N106FT	6	1/4 HP	0.75 kW	1/2 HP	1.0 HP	0.75-1.10 kW	1-1.5 HP	2.2 kW	2-3.0 HP	138.43
70007401	ATS01N109FT	9	1/3 HP	1.10 kW	1 HP	2.0 HP	1.50 kW	2 HP	4.0 kW	5.0 HP	156.04
70007402	ATS01N112FT	12	1/2 HP	1.50 kW	2 HP	3.0 HP	2.20 kW	3 HP	5.5 kW	7.5 HP	174.44
70007404	ATS01N209LU	9	—	—	—	1.5-2.0 HP	1.50 kW	2 HP	—	—	182.44
70007405	ATS01N212LU	12	—	—	—	3.0 HP	2.20-3.0 kW	3 HP	—	—	210.44
70007406	ATS01N222LU	22	—	—	—	5.0 HP	4.00-5.5 kW	5-7.5 HP	—	—	263.26
70007407	ATS01N232LU	32	—	—	—	7.5-10.0 HP	7.5 kW	10 HP	—	—	356.52
70007408	ATS01N206RT	6	—	—	—	—	—	—	—	2-3.0 HP	160.04
70007409	ATS01N209RT	9	—	—	—	—	—	—	—	5.0 HP	182.44
70007410	ATS01N212RT	12	—	—	—	—	—	—	—	7.5 HP	210.44
70007411	ATS01N222RT	22	—	—	—	—	—	—	—	10-15 HP	206.53
70007412	ATS01N232RT	32	—	—	—	—	—	—	—	20.0 HP	240.06
70007403	RHZ66	DIN Rail Adapter for 3 and 6 Amp Models (Sold Only in Packages of 10)									2.94