









Altivar™ AC Drives

Advanced energy management
and performance in motor control

Variable Speed Drives

Process

 Mining, Minerals & Metals	 Marine
 Food & Beverage	 Water & Wastewater
 Oil & Gas	 Power Plants

Fluid Management

Altivar Process 600

Wall Mounting
0.75...315 kW
200...690 V

Cabinet Integration
0.75...2600 kW
380...690 V






Industrial Processes

Altivar Process 900

Wall Mounting
0.75...315 kW
200...690 V

Cabinet Integration
0.75...2600 kW
380...690 V

Machines

 Hoisting	 Material Handling
 Textile	 Material Working
 Packaging	

Commercial Equipment

Altivar 12

0.18...4 kW
100...240 V

Basic Machines




Altivar 310

IP20
0.75 to 22 kW
380...460 V

Simple & Advanced Machines

<p>Altivar 320B/C</p> <p>Book/compact format 0.18...15 kW 200...600 V</p>	<p>Altivar340</p> <p>Book/compact format 0.75...75 kW 380...480 V</p>
<p>Altivar 320W</p> <p>Harsh environment IP65/66 0.18...7.5 kW 380...480 V</p>	

Building

 Pumps	 Lift
 Fans & Compressors	

HVAC & Pumps

Altivar 212

IP21
0.75...75 kW
200...480 V

IP55
0.75...75 kW
380...480 V


Utilities

Altivar 610

0.75...160 kW
380...460 V

Soft Starters

Simple Machines

<p>Altistart 01</p> <p>3...85 A 110...480 V</p>	<p>Altivar Soft Starter ATS130</p> <p>38...105 A 200...480 V</p> <p></p>
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Industrial Processes & Utility

<p>Altistart 22</p> <p>17...590 A 208...600 V</p>	<p>Altivar Soft Starter ATS480</p> <p>208 to 690V 17 to 1700A</p>
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Please contact Customer Care Center for Stockable and Non stockable status of references.

NORMAL STOCK ITEMS

W.E.F. January 17th, 2024

Machine Drives

Altivar™ 320: Drives for synchronous and asynchronous motors from 0.18 to 15 kW (0.25 to 20 Hp)

Altivar™ 320 Power extension

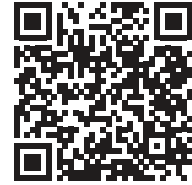
Coming Soon



Product selector for ATV320



EcoStruxure™ Motor Control Configurator



EcoStruxure™ Motor Management Design

- Cost Saving: Optimized Space and Time
- Solution Oriented: ATV Logic, Ready for automation integration
- Ambient temperature: 50deg C w/o deration
- Safety embedded as standard (STO SIL3)
- Possibility to connect a graphic terminal as option (Basic & Advanced)
- Modbus & Can Open as standard
- Protection against harsh environment 3C3 class

kW	Max. continuous current(A)	Reference	Unit MRP [€]
Single phase-Supply Voltage: 200...240V			
0.18	1.5	ATV320U02M2C	On Request
0.37	3.3	ATV320U04M2C	On Request
0.55	3.7	ATV320U06M2C	On Request
0.75	4.8	ATV320U07M2C	On Request
1.1	6.9	ATV320U11M2C	On Request
1.5	8	ATV320U15M2C	On Request
2.2	11	ATV320U22M2C	On Request
Three phase-Supply Voltage: 200...240V			
1.5	8	ATV320U15M3C	On Request
4	17.5	ATV320U40M3C	On Request
5.5	27.5	ATV320U55M3C	On Request
7.5	33	ATV320U75M3C	On Request
11	54	ATV320D11M3C	On Request
15	66	ATV320D15M3C	On Request
Three phase-Supply Voltage: 380...500V (COMPACT)			
0.37	1.5	ATV320U04N4C	On Request
0.55	1.9	ATV320U06N4C	On Request
0.75	2.3	ATV320U07N4C	On Request
1.1	3	ATV320U11N4C	On Request
1.5	4.1	ATV320U15N4C	On Request
2.2	5.5	ATV320U22N4C	On Request
3	7.1	ATV320U30N4C	On Request
4	9.5	ATV320U40N4C	On Request
5.5	14.3	ATV320U55N4C	On Request
7.5	17	ATV320U75N4C	On Request
11	27.7	ATV320D11N4C	On Request
15	33	ATV320D15N4C	On Request
Three phase-Supply Voltage: 380...500V (BOOK)			
0.4	1.5	ATV320U04N4B	On Request
0.6	1.9	ATV320U06N4B	On Request
0.8	2.3	ATV320U07N4B	On Request
1.1	3	ATV320U11N4B	On Request
1.5	4.1	ATV320U15N4B	On Request
2.2	5.5	ATV320U22N4B	On Request
3	7.1	ATV320U30N4B	On Request
4	9.5	ATV320U40N4B	On Request
5.5	14.3	ATV320U55N4B	On Request
7.5	17	ATV320U75N4B	On Request
11	27.7	ATV320D11N4B	On Request
15	33	ATV320D15N4B	On Request
Three phase-Supply Voltage: 380...500V, IP66			
0.37	1.5	ATV320U04N4W*	On Request
0.55	1.9	ATV320U06N4W*	On Request
0.75	2.3	ATV320U07N4W*	On Request
1.1	3	ATV320U11N4W*	On Request
1.5	4.1	ATV320U15N4W*	On Request
2.2	5.5	ATV320U22N4W*	On Request
3	7.1	ATV320U30N4W*	On Request
4	9.5	ATV320U40N4W*	On Request
5.5	14.3	ATV320U55N4W*	On Request
7.5	17	ATV320U75N4W*	On Request

Note: References ending with B are BOOK type & Reference ending with C are COMPACT type.
References ending with N4W* are IP66.

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NORMAL STOCK ITEMS

W.E.F. January 17th, 2024



Altivar™ The next SMART manufacturing era

Altivar™ Machine ATV340, innovative
variable speed drives for high-performance machines



The Altivar™ Machine ATV340* drive is robust for high overloads, offering safety, various communication protocols, and cutting-edge motor control solution for machine builders.

Traditional machine design is challenged by the smart manufacturing approach. Changing times require innovative features such as the native Ethernet based - Fast Device Replacement. It gives machine operators a seamless service approach. The embedded encoder is compatible with asynchronous and synchronous motors in closed-loop control applications and the load-sharing master/slave configuration makes ATV340 a SMART manufacturing success.

* From 1 HP to 100 HP in heavy duty with 3-phase supply voltage from 380 to 480 V.

High performance in material handling, material working and hoisting

The ATV340 improves the capabilities and availability of high-performance machines while reducing build costs thanks to:

- **Superior machine performance.** With a maximum torque availability of 1.8 In and optimized speed bandwidth of up to 400 Hz, the ATV 340 is ideal for dynamic applications with rapid acceleration. Its frequency inverters can handle high overloads in demanding applications up to 220% nominal torque.
- **Faster reaction time.** A combination of fast application reaction time with a minimum 1 ms task cycle and Ethernet connectivity maximizes your machine's throughput.
- **Simplified machine engineering.** Built-in multiprotocol (Ethernet, Modbus, SERCOS) a variety of interfaces, an embedded encoder and integrated application functions offer maximum flexibility in design. Remote monitoring via the embedded web server enables predictive maintenance. EcoStruxure™ Machine & FDR allow faulty device replacement service with short time machine recovery.
- **Reduced design time.** Complete project replication is possible with one-button auto-tuning for motor identification and supports efficient machine commissioning and production. Additionally, ready-to-use Tested, Validated, and Documented Architectures (TDVAs) and SoMachine software facilitate seamless automation integration.
- **Comprehensive functional safety and cyber security.** With embedded STO (SIL3) and a full range of safety functions (SS1, SLS, SMS, SBC, GDL), the ATV340 is compliant with machine related safety standards EN ISO 13849-1 and EN 62061. The ATV340 also has Achilles level 2 cyber-security certification to protect people and assets while ensuring continuity of service.
- **Robust.** In harsh environments with high levels of dust and vibration and operating temperatures up to 60°C. Due to high IGBT and thermal dissipation efficiency, it allows additional 40% of rated current taking motor power to 130kW under normal duty operation.

220%
Nominal torque

1 ms
Application cycle time



Modular and Ethernet version
with different application approach



Optional Safety card offers for high-end safety functions

Safe Stop 1 (SS1)
Safe Limited Speed (SLS)
Safe Maximum Speed (SMS)
Safe Brake Control (SBC)
Guard Door Lock (GDL)



High power Safety solution
(up to 75kW), Safety card and additional module support

For more information and product references visit

se.com/drives

Altivar™ 340: Drives with innovative variable speed drives for high-performance machines upto 75kW



- Reduced requirement for additional devices thanks to rich interfaces, I/Os, and PTIs/PTOs, and an embedded encoder
- 5 DI +2 (DI/DO);2 RO ;2 AI ;1 AO
- 30kW...75kW : 8 DI ;1DO ;3RO ;3AI ;2AO
- DC choke inbuilt from 30kW and above
- Heavy duty 150%In for 60sec & 180%In for 2sec
- Embedded STO SIL3
- On board A/B/I & SinCos 1Vpp encoder
- Chemical class for harsh environment 3C3
- High-speed native multi-Ethernet connectivity – real-time communication
- 1 ms application cycle time

ATV340 Modular Drive: Power & Supply Voltage: 0.75 – 22 kW & 400/480 V three phase

ATV340 Ethernet Drive(ATV340***N4E): Power & Supply Voltage: 0.75 – 75 kW & 400/480 V three phase

ND	kW		Max. continuous current (A)		Reference	Unit MRP [₹]
	ND	HD	ND	HD		
Three phase-Supply Voltage: 380...480V (Modular)						
1.1	0.75		2.8	2.2	ATV340U07N4	On Request
2.2	1.5		5.6	4	ATV340U15N4	On Request
3	2.2		7.2	5.6	ATV340U22N4	On Request
4	3		9.3	7.2	ATV340U30N4	On Request
5.5	4		12.7	9.3	ATV340U40N4	On Request
7.5	5.5		16.5	12.7	ATV340U55N4	On Request
11	7.5		24	16.5	ATV340U75N4	On Request
15	11		32	24	ATV340D11N4	On Request
18.5	15		39	32	ATV340D15N4	On Request
22	18.5		46	39	ATV340D18N4	On Request
30	22		62	46	ATV340D22N4	On Request
Three phase-Supply Voltage: 380...480V (With Ethernet)						
1.1	0.75	2.8	2.2	ATV340U07N4E	On Request	
2.2	1.5	5.6	4	ATV340U15N4E	On Request	
3	2.2	7.2	5.6	ATV340U22N4E	On Request	
4	3	9.3	7.2	ATV340U30N4E	On Request	
5.5	4	12.7	9.3	ATV340U40N4E	On Request	
8	5.5	16.5	12.7	ATV340U55N4E	On Request	
11	8	24	16.5	ATV340U75N4E	On Request	
15	11	32	24	ATV340D11N4E	On Request	
18.5	15	39	32	ATV340D15N4E	On Request	
22	18.5	46	39	ATV340D18N4E	On Request	
30	22	62	46	ATV340D22N4E	On Request	
37	30	74.5	61.5	ATV340D30N4E	On Request	
45	37	88	74.5	ATV340D37N4E	On Request	
55	45	106	88	ATV340D45N4E	On Request	
75	55	145	106	ATV340D55N4E	On Request	
90	75	173	145	ATV340D75N4E	On Request	

*ATV340 display is optional - VW3A1113