



Altivar 320: Powerful, robust and flexible



Power and Voltage Range:

0.18kW - 2.2kW, 200/240V 1Ph
 0.18kW - 15kW, 200/240V 3Ph *
 0.37kW - 15kW, 380/500V 3Ph
 0.75kW - 15kW, 525/600V 3Ph *
 (* for compact drive only)

Number of integrated I/O

6 Digital Inputs; 1 Digital Output; 2 Relay Outputs; 3 Analog Inputs; 1 Analog Output

Integrated Communication

Single port compatible with CANopen and Modbus Serial line

Optional Communication

Ethernet IP and Modbus TCP, CANopen RJ45 Daisy Chain, Sub-D, and screw terminals, PROFINET, Profibus DP V1, EtherCAT, DeviceNet and PowerLink

Superior performance

- Ability to run async, sync & PM motors
- 150% overload for 60 sec (HD)
- Better dynamic response in open loop
- Built in controller for simple logic
- Built in hoisting function with brake logic
- Traverse function for textile application
- DC bus sharing

Cost and space saving

- Built in braking unit
- Small footprint starting 60mm width
- Side by side mounting
- Optional 90 deg bracket

Robust Design

- 50°C ambient temperature
- 3C3 for chemical environment
- 3S2 for mechanical environment
- Washable drives equipped with high Ingress Protection IP66/65

Integrated Safety Functions

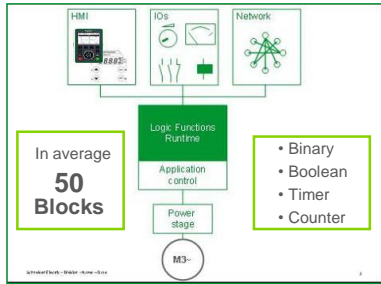
- Safety STO (up to SIL3 / PL_e), SS1, SLS, SMS, GDL)
- GDL: Guard Door Locking

STO: Safe Torque Off
 SS1: Safe Stop 1
 SLS: Safe Limited Speed
 SMS: Safe Maximum Speed



Power and Voltage Range:

0.18kW - 2.2kW, 200/240V 1Ph
 0.37kW - 7.5kW, 380/500V 3Ph



ATV Logic



Programming in unpacked Box

Note: IP65/66 are designed at 40°C

[Altivar 320 Catalog](#)

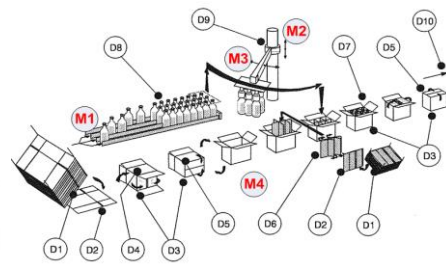
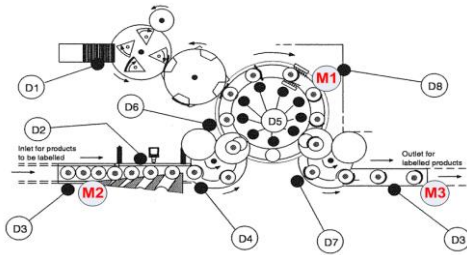
Targeted applications

Packaging

Carton packers, labeling machines, Sealing, Bagging machines etc.

Example:

- Rotary labelling machine
- Vertical boxing machine



Material Handling

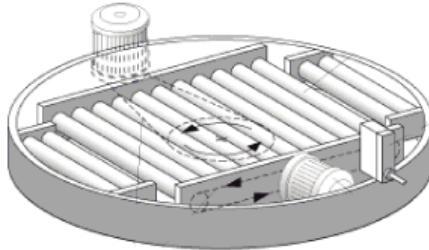
Small Conveyors, Pallets, Logistic Center, Roller Tables, Automatic Doors etc.

Example:

- Turntable and Conveying

M1: Drive wheel control, rapid start and stop to minimize down time, around 80 000 btl/hr (2.2<P<11kW)
 M2,M3: forward movement of conveyor

M1: for each conveyor, to stack products in front of stopper
 M2: lifting and lowering the gripping device
 M3: rotation of the arm (transfer products to box)
 M4: box conveyor



Material Working and Hoisting

2D Machines, Saws, Gummers, Planers, Bending Presses, Welding, Wood working, Pick and Place, Elevators for the manufacturing sector, Trolley, Hoists etc.

Mechanical actuators and other

Pumps, Fans, Blowers, Compressors, Special Machines such as mixers, kneaders, filling machines, extruders etc.

