

Clean and Compact MV Drive

Fan, pump, compressor, conveyor applications

Altivar 1200

Medium-voltage variable speed drive,
from 315 to 16,200 kVA



Schneider
Electric™



Easy integration into existing or new installations

High reliability and performance

Reduced energy consumption

Lower maintenance costs

Complete range of services



Mining, Minerals
& Metals



Oil & Gas



Power



Water & Wastewater

Benefit from uncompromised MV technology

Altivar 1200 extends the wide range of electrical distribution, motor control, and control systems from Schneider Electric.

Designed for industry and utility applications, this simple and high-performance MV drive will optimize the performance of applications such as fans, pumps, compressors, and conveyors.



Mining, Minerals & Metals

- Cement
- Coal mine
- Metallurgy
- Kiln head exhaust fan



Oil & Gas

- Petroleum and petrification
- Kiln head exhaust fan
- Air compressor
- Submersible pump



Power

- Boiler induced draught fan
- Boiler forced draught fan
- Primary fan
- Condensate pump
- Sewage pump



Water & Wastewater

- Water suction pump
- Water supply pump
- Primary suction pump
- Secondary clean water pump

Compact design and enhanced safety

All-in-one cabinet

Easy maintenance

- Front access transformer and control

Efficient cooling

- Separated air flow
- No additional fans to maintain
- Washable filters

Fully equipped

- UPS (30 mins)
- 10" HMI touch screen
- Indoor cabinet lights
- Audible alarm
- Free I/O
- Limit switch



Advanced IP31 enclosure

Separate access to MV area

- Interlock system
- Special door-opening tool required
- Handle lock
- DC bus power-off signal

Robust design

- 2mm panel thickness
- IP41 and IP42 (option)

Optimized power cell cabinet

Compact design

- Modular power cell design
- Easy to replace

Checking window

- 4 peepholes on each door of the power cell cabinet

Proven technology for performance and reliability

Control reliability

Easy access and compactness

- Integrated high speed control
- Customizable interface and control

Uninterrupted power supply

- 30 mins continuous operation after power supply loss
- Protection against supply instability (voltage drop)

Integrated transformer

Compactness

- Fewer cables and simpler commissioning

Clean power

- 18-54 pulse operation
- Clean sinusoidal wave

Air duct system

- Improved drive efficiency
- No hotspots



High-performance inverter

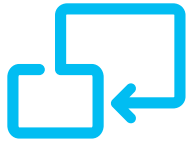
Inverter efficiency

- 98.5% efficiency

Motor-friendly

- Up to 19 levels of pulse-width modulation (PWM) for minimal switching surges
- Insignificant harmonics
- Up to 2km motor cable length without output filter

Compact and environmentally friendly



Compact size: Up to 1.5 MVA per meter of enclosure (drive only)

Clean power

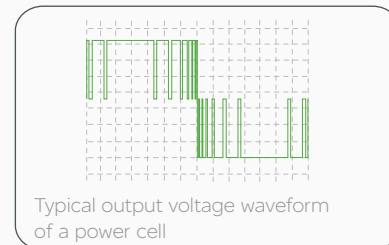
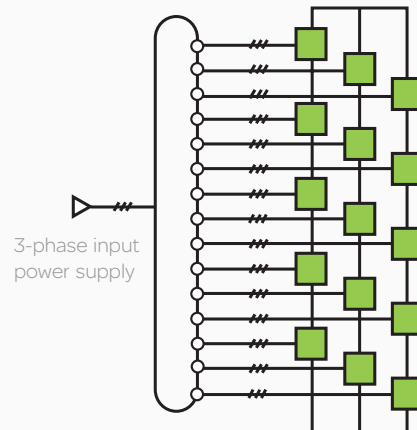
The multi-level topology shown below, featuring a 30-pulse diode rectifier, is associated with the kind of low-voltage IGBTs that have proven successful in practice and are found in a wide range of applications. It also features:

- Harmonics-free input current with high power factor
- No pulse torque
- Quasi sinusoidal wave for motors and supply currents (negligible harmonic current contents)
- Current switched off instantaneously
- Minimum losses since the IGBT does not need a snubber and requires little switching power

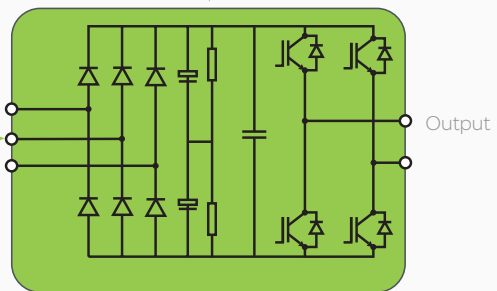
≥ 96.5%*

Efficiency including transformer
*Depends on transformer

Main circuit configuration for 6.0 kV drive

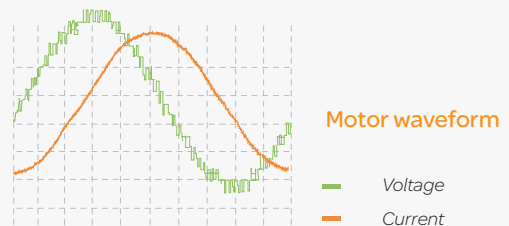
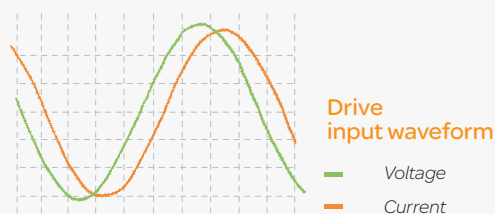


Power cell



> 50,000 h

MTBF: more than 5.5 years



Benefit from innovation in your medium-voltage applications

Improved technology  Optimized results

Optimized cabinet

- Compact design with input transformer integrated in the drive enclosure
- Easy front access to control and transformer cabinet
- Certified IP31, IP41 and IP42 cabinet
- Small footprint

Maximized return on investments

- Reduced installation costs
- Quick commissioning
- Lower production and maintenance costs

Fully equipped drive

- Interlock system*, special door-opening tool required, the door is needed, power-off signal, handlelock
- Large 10" HMI, easy software configuration, internal lightening, free I/O
- UPS
- CE marking

Increased effectiveness

- Enhanced reliability
- Improved operation continuity
- Advanced protection of people and equipment
- User friendly
- International compliance

Multi-level technology

- Clean sinusoidal wave output current
- Lower harmonics, no motor stress
- Operate also with directly connected existing motors

No motor disturbance

- Improved motor durability
- Compatibility with new or existing motors
- Extended cable length to motor
- Motor friendly (no mechanical stress)

Improved OPEX and CAPEX

- Low harmonics THDI < 3% (input & output)
- No specific motor insulation
- Long motor cable without additional components
- No special motor cable required
- Low dv/dt and voltage steps

Seamless integration with motor and line supply

- Optimized return on investment
- Reduced energy losses
- Insignificant interference with the electrical network

Efficient cooling system

- Innovative system without bottom transformer fans
- Reduced energy consumption
- Air duct system (no air conditioning needed)

Lower energy consumption

- Improved total drive efficiency

Simple and proven design

Inverter

- Modular architecture
- Proven low-voltage IGBT

Simple operation

- Time saving
- Easy maintenance
- Increased drive reliability

Separate air flow in control cabinet

- No additional fans inside the cabinet.

*according to customers' requirements

Flexibility and reliability



Optimized modular architecture

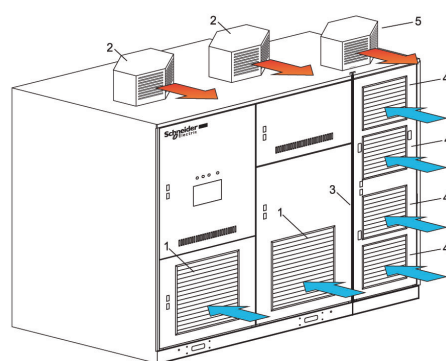
The inverter of the drive is based on a proven, modular low-voltage IGBT architecture for added reliability.

- Easy maintenance with module power cells that can be replaced in just a few minutes
- Simple multi-level architecture for cost-saving maintenance
- Fewer spare parts thanks to just one power cell design

A dedicated CPU compartment close to the power cells requires only short cables and simplifies the installation on site.

Cabinets can be shipped separately.

- Space-optimized dimensions without squeezing the components and avoiding hot spots inside the system
- Easy access to control panel allows you to install additional components according to your needs



Efficient cooling system

Innovative transformer design with no need for additional bottom blowers.

- Up to 0.3% total drive efficiency

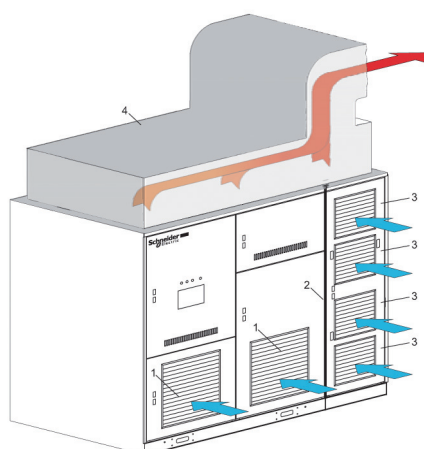
Separate air flow in the control cabinet

- Efficient air flow in the control cabinet thanks to the Altivar 1200 design. No additional fans needed inside the cabinet.
- No maintenance required.

Cooling through air duct channel (option)

The Altivar 1200 can be equipped with an air duct system to exhaust heated air outside the electrical room. For optimized air conditioning, clean air has to be provided in the drive air inlets.

- Air inlet grid for transformer cabinet
- Guided air flow to avoid internal air short-circuit between transformer and powercell cabinet
- Air inlet grid for powercell cabinet
- Air duct channel



Drive with air duct channel

User-friendly interface with several control features

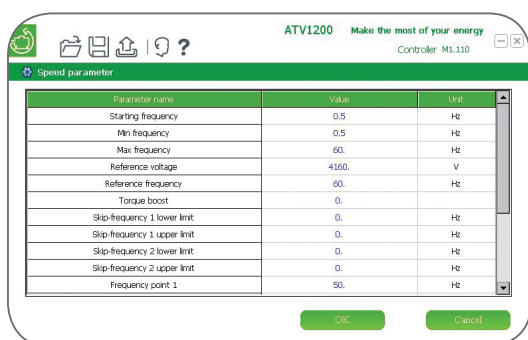
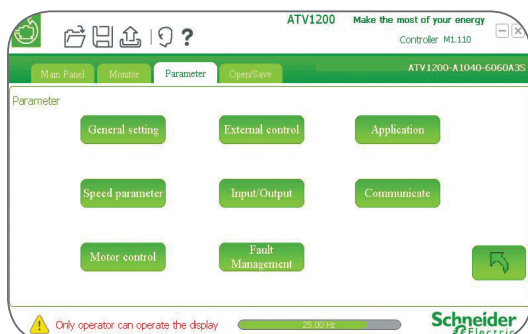
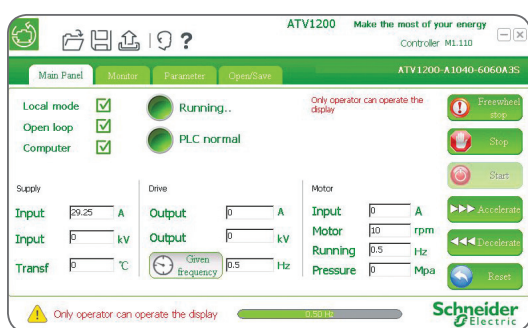


Easy-to-use 10-inch color LCD touch-screen with operation data at your fingertips.

- Multiple languages
- Consistent menus within the Altivar ranges
- Parameter and operation records
- Dedicated multi-level menu to guide you with different access levels for service and commissioning engineers (operator, manager, administrator)

Control features

- **Motor control mode:** V/f control, sensor/ sensorless flux vector control, closed loop
- **Integrated protection:** Overcurrent, overvoltage, undervoltage, controller shutdown, cooling fan stop, overload, overtemperature, communication interruption, ground fault, phase loss
- **Communication:** Modbus, Modbus TCP, Ethernet IP, Profibus or DeviceNet
- **HMI screen:**
 - Output: frequency, voltage, current, power
 - Input: voltage, current, power, power factor, parameter setting, voltage and current waveform, transformer temperature, drive status and records
- 1Q or 2Q operation, PID function
- I/O function
- Local / remote mode
- **Frequency setting:** manual, analogue, digital



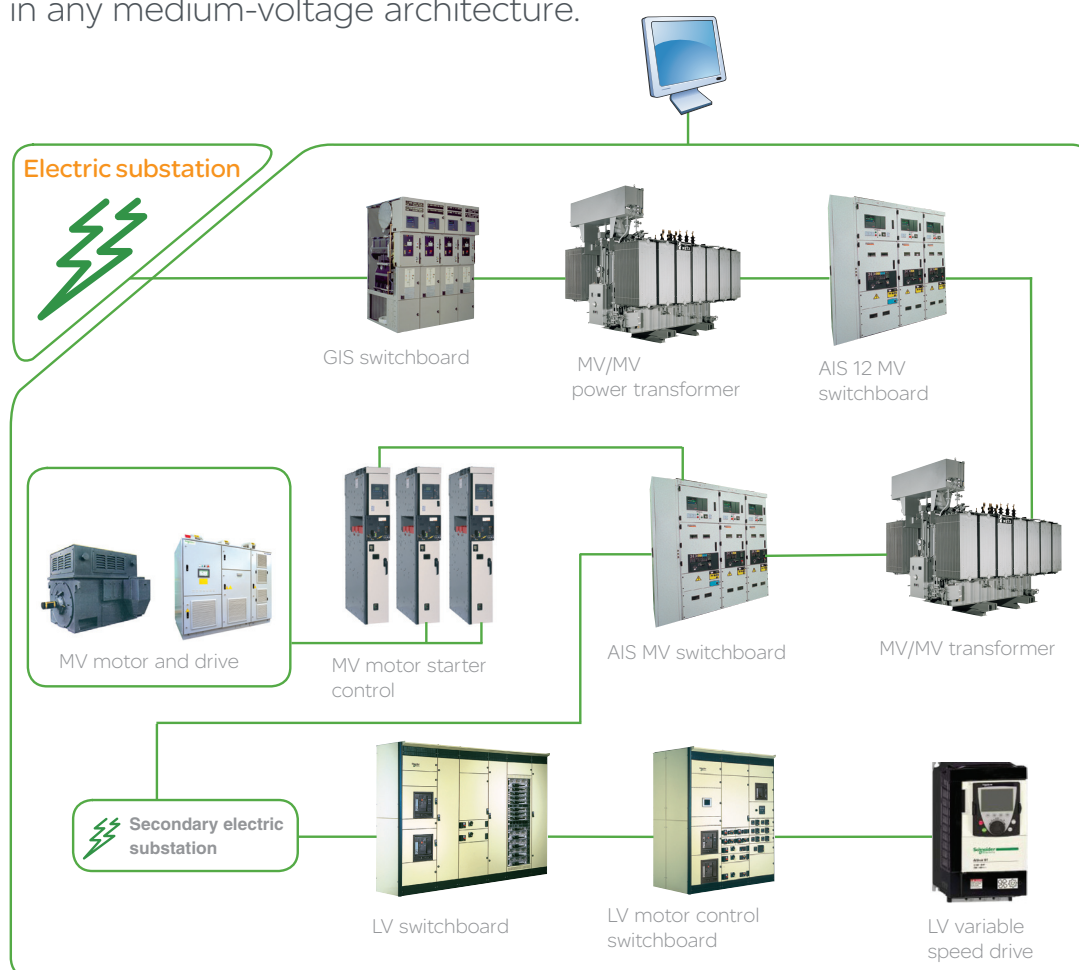
Key functions

- Soft start function (including synchronization and bypass)
- Multi motor control
- Catch on the fly
- Simulation mode for commissioning
- Master slave function up to 3 drives (1master, 2 slaves)
- Speed synchronized control (load sharing)
- Motor autotuning
- Auto restart (after input voltage drop)

Make your life easier with complete solutions

Complete solution by Schneider Electric

The Altivar 1200 is open to most networks and can be integrated in any medium-voltage architecture.



With the Altivar 1200, Schneider Electric has created a comprehensive and consistent solution for:

- Controlling and supplying equipment
- Improving performance

Schneider Electric, a world leader in electrical distribution and control systems, presents a range of products, solutions and services for:

- Transforming and routing energy
- Automating machines and processes

The Altivar 1200 solution is based on a transformer, drive and medium-voltage electric motor assembly.

Schneider Electric can provide a turnkey solution complete with drive and associated equipment (electrical distribution, control systems).

For more information, please contact our project teams.

Build a competitive advantage with the help from our industry experts

By applying our industrialization skills to our services, we can help to ensure your success.

Schneider Electric's expertise

Service experts are on hand to help you:

- Get maximum return on your investments
- Optimize the value of your installations throughout their life cycle

A wide range of associated services

Audit and consultancy:

- Line supply consultancy (compensation, filtering, harmonics, etc.)
- Shaft line study (torsional analysis, etc.)
- Energy efficiency, enabling an optimized drive solution

Installation and startup with:

- Assistance and troubleshooting
- Specific maintenance contract (with optional remote access and reconditioning)

Turnkey solution

- Schneider Electric can provide a complete turnkey solution with drive and associated equipment (electrical distribution, control systems)

Factory tests

- Deliver factory acceptance test (FAT)
- Test at maximum power with or without motor

Customized training

- On user site or in Schneider Electric training center
- Official qualification for medium-voltage drive operations

Bespoke project management

Rapid, flexible service provision



Rapid return on investment
(generally less than 24 months)



Altivar 1200 medium-voltage speed drives are built to suit your needs!

With our complete range of personalized and fully-equipped drives we have made it easy for you to find the one that fits your application perfectly.

Altivar 1200

general technical specification

Standard features

Input	18-54 pulse diode rectifier bridge
Output	Multilevel PWM with 2 level low-voltage IGBT inverter cells
Input voltage	2.4kV, 3.0kV, 3.3kV, 4.16kV, 5.5kV, 6.0kV, 6.3kV, 6.6kV, 6.9kV, 10kV, 11kV, 13.8 kV - Variation: standard $\pm 10\%$
Allowable voltage fluctuation	The drive is subject to de-rating operation when the voltage drop of power supply is within -25%
Input frequency	50/60 Hz $\pm 5\%$
Acceleration deceleration time	0-3200 s
Overload capability	- Standard overload 120% 60s/10 min and 150% 3s/10 min, instand trip threshold 200% - High overload 150% 60s/10 min, 185% 3s/10 min, instand trip threshold 250%
Total harmonics THDI	Comply with the requirements of power quality standard of IEEE519-1992
Frequency resolution	0.01 HZ
Trigger signal transmission	Fiber optic transmission
Input Power factor	≥ 0.96 from 20 % to 100 % of speed
Efficiency at rated power	The efficiency of the drive including input transformer 96% or over 96.5% depending on product Inverter efficiency without transformer is 98.5%
Type of motor	Asynchronous motor, synchronous motor
Three-phase output voltage for motor connection	0...2400V - 0...3000V - 0...3300V - 0...4160V - 0...5500V - 0...6000V 0...6300V - 0...6600V - 0...6900V - 0...10000V - 0...11000V
Output frequency	120Hz for V/f, 70Hz for Vector Control
Input transformer	Indoor type integrated in the frequency variable device, the dry phase-shifting transformer can be supplied with 18 - 54 pulse rectifier
Control power supply	220 VAC, capacity 3 kVA, with UPS 30 min autonomy, other voltage on request
Protection class	- Standard: IP31 - Option: IP41, IP42
Cooling	Forced air ventilation
Paint	RAL 7032
Reference standard	IEC EN 61800-3, IEC EN 61800-4, IEC EN 61800-5-1, IEC EN 60204-11, IEC EN 60529, IEEE 519 and other optional ones

Environment

Storage temperature	-10°C to 60°C
Working temperature	0-40°C, up to 50°C possible with derating
Relative humidity	90% (without condensate), Optional: maximum up to 95%
Altitude	≤ 1000 m without derating. With derating of 0.6% every 100m up to 2000 meters, can be customized for high altitude
Vibration	Acceleration: 4.9 m/s ² acceptable (10-50 Hz)
Noise level	≤ 80 dB (A) (including the noise of the cooling fan on the cabinet top)

Identification code

Serial Name	Cooling type	Drive (kVA)	Input voltage	Output voltage	Style	IP	Drive efficiency
ATV1200	A	X X X		66			
	A → Air Cooled		24 → 2.4 kV 33 → 3.3 kV 55 → 5.5 kV 63 → 6.3 kV 10 → 10 kV	42 → 4.16 kV 60 → 6 kV 66 → 6.6 kV 11 → 11 kV	S → Sync. Motor Control A → Async. Motor Control	3 → IP31 4 → IP41 5 → IP42	S → Standard Efficiency H → High Efficiency

Example

ATV1200 - A 5600 - 66 60 A 3 H

The capacity of Altivar 1200 series of medium-voltage Drive is 5600 kVA, air cooled, input voltage is 6.6 kV, output voltage is 6kV, asynchronous motor control, IP31 and with high efficiency input transformer.

Altivar 1200 power specifications voltage class 3.3 kV

Power specifications						
Model	Nominal continuous current(A)		Typical motor power (kW)	Type rating (kVA)	Dimension (W*D*H) mm	Approximate weight (kg)
	Standard overload 120%	High overload 150%				
ATV1200-A370-3333...	65	52	309	370	2460x1400x2520	2200
ATV1200-A470-3333...	82	66	393	470	2460x1400x2520	2400
ATV1200-A570-3333...	100	80	477	570	2460x1400x2520	2600
ATV1200-A660-3333...	116	93	552	660	2760x1400x2520	3200
ATV1200-A770-3333...	135	108	644	770	2760x1400x2520	3200
ATV1200-A860-3333...	150	120	719	860	2760x1400x2590	3400
ATV1200-A1000-3333...	175	140	836	1000	3560x1400x2670	4300
ATV1200-A1140-3333...	200	160	953	1140	3560x1400x2670	4600
ATV1200-A1250-3333...	220	176	1045	1250	3560x1400x2670	4700
ATV1200-A1400-3333...	245	196	1170	1400	3560x1400x2820	5000
ATV1200-A1600-3333...	280	224	1338	1600	3560x1500x2820	5400
ATV1200-A1830-3333...	320	256	1530	1830	4560x1500x2670	6400
ATV1200-A2000-3333...	350	280	1672	2000	4560x1500x2670	6500
ATV1200-A2340-3333...	410	328	1956	2340	4560x1600x2670	7100
ATV1200-A2800-3333...	490	392	2341	2800	4560x1600x2820	7800
ATV1200-A3150-3333...	550	440	2633	3150	5870x1700x2740	9800
ATV1200-A3500-3333...	612	490	2926	3500	5870x1700x2740	10200
ATV1200-A3780-3333...	661	529	3160	3780	5870x1700x2740	10600
ATV1200-A4120-3333...	720	576	3444	4120	5870x1700x2740	11100
ATV1200-A4460-3333...	780	624	3729	4460	5870x1700x2740	11800
ATV1200-A4860-3333...	850	680	4063	4860	5870x1700x2740	12400

1) ... Please contact Schneider Electric for other combinations of input and output voltage.

2) ... For higher drive capacity please contact Schneider Electric.

3) ... Values are calculated with motor power factor of 0.88 and efficiency of 95%. The real value must be calculated on the basis of the equipment used.

4) ... Values valid only for standard efficiency.

Altivar 1200 power specifications voltage class 4.16 kV

Power specifications						
Model	Nominal continuous current(A)		Typical motor power (kW)	Type rating (kVA)	Dimension (W*D*H) mm	Approximate weight (kg)
	Standard overload 120%	High overload 150%				
ATV1200-A350-4242...	49	39	293	350	2660x1400x2520	2400
ATV1200-A470-4242...	65	52	393	470	2660x1400x2520	2600
ATV1200-A560-4242...	78	62	468	560	2660x1400x2520	2800
ATV1200-A720-4242...	100	80	602	720	2660x1400x2520	3100
ATV1200-A790-4242...	109	87	660	790	3060x1400x2520	3800
ATV1200-A940-4242...	130	104	786	940	3060x1400x2520	4000
ATV1200-A1080-4242...	150	120	903	1080	3660x1400x2670	4400
ATV1200-A1190-4242...	165	132	995	1190	4060x1400x2670	5000
ATV1200-A1450-4242...	200	160	1212	1450	4060x1400x2670	5300
ATV1200-A1585-4242...	220	176	1325	1585	4060x1500x2670	5600
ATV1200-A1750-4242...	243	194	1463	1750	4060x1500x2740	5800
ATV1200-A2020-4242...	280	224	1689	2020	4360x1500x2740	6300
ATV1200-A2310-4242...	320	256	1931	2310	5170x1500x2670	7700
ATV1200-A2500-4242...	347	278	2090	2500	5170x1500x2670	7900
ATV1200-A2960-4242...	410	328	2475	2960	5170x1600x2670	8500
ATV1200-A3130-4242...	434	347	2617	3130	5170x1600x2670	8800
ATV1200-A3530-4242...	490	392	2951	3530	5470x1700x2820	9600
ATV1200-A4000-4242...	550	440	3344	4000	6670x1800x2740	12100
ATV1200-A4400-4242...	611	489	3678	4400	6670x1800x2740	12500
ATV1200-A4760-4242...	661	529	3979	4760	6670x1800x2740	13000
ATV1200-A5200-4242...	720	576	4347	5200	6670x1800x2740	13800
ATV1200-A5650-4242...	784	627	4723	5650	6670x1800x2740	14200
ATV1200-A6150-4242...	850	680	5141	6150	6970x1800x3040	14700

- 1) ... Please contact Schneider Electric for other combinations of input and output voltage.
- 2) ... For higher drive capacity please contact Schneider Electric.
- 3) ... Values are calculated with motor power factor of 0.88 and efficiency of 95%. The real value must be calculated on the basis of the equipment used.
- 4) ... Values valid only for standard efficiency.

Altivar 1200 power specifications voltage class 5.5 kV

Power specifications

Model	Nominal continuous current(A)		Typical motor power (kW)	Type rating (kVA)	Dimension (W*D*H) mm	Approximate weight (kg)
	Standard overload 120%	High overload 150%				
ATV1200-A430-5555...	45	36	359	430	2860x1400x2590	2400
ATV1200-A520-5555...	55	44	435	520	2860x1400x2590	2600
ATV1200-A620-5555...	65	52	518	620	2860x1400x2590	2800
ATV1200-A730-5555...	76	61	610	730	2860x1400x2590	3100
ATV1200-A860-5555...	90	72	719	860	2860x1400x2590	3800
ATV1200-A960-5555...	100	80	803	960	3160x1400x2590	4000
ATV1200-A1090-5555...	114	91	911	1090	3660x1400x2520	4400
ATV1200-A1290-5555...	135	108	1078	1290	3660x1500x2670	5000
ATV1200-A1430-5555...	150	120	1195	1430	3660x1500x2820	5300
ATV1200-A1610-5555...	168	135	1346	1610	4360x1500x2670	5600
ATV1200-A1910-5555...	200	160	1597	1910	4660x1500x2670	5800
ATV1200-A2100-5555...	220	176	1756	2100	4660x1600x2670	6300
ATV1200-A2300-5555...	241	192	1923	2300	4660x1600x2670	7700
ATV1200-A2670-5555...	280	224	2232	2670	4660x1600x2820	7900
ATV1200-A2870-5555...	301	241	2399	2870	5770x1600x2670	8500
ATV1200-A3050-5555...	320	256	2550	3050	5770x1600x2670	8800
ATV1200-A3210-5555...	337	269	2684	3210	6070x1700x2670	9600
ATV1200-A3610-5555...	379	303	3018	3610	6070x1700x2670	10900
ATV1200-A3910-5555...	410	328	3269	3910	6070x1700x2740	11100
ATV1200-A4100-5555...	430	344	3428	4100	6070x1700x2740	11300
ATV1200-A4680-5555...	490	392	3912	4680	6070x1700x2820	12500
ATV1200-A5250-5555...	550	440	4389	5250	7770x1800x3040	15300
ATV1200-A5810-5555...	611	489	4857	5810	7770x1800x3040	15600
ATV1200-A6300-5555...	660	528	5267	6300	8670x1600x3040	16500
ATV1200-A6900-5555...	720	576	5768	6900	8970x1700x3040	18400
ATV1200-A7450-5555...	780	624	6228	7450	8970x1700x3040	19900
ATV1200-A8100-5555...	850	680	6772	8100	8970x1700x3040	20300

1) ... Please contact Schneider Electric for other combinations of input and output voltage.

2) ... For higher drive capacity please contact Schneider Electric

3) ... Values are calculated with motor power factor of 0.88 and efficiency of 95%. The real value must be calculated on the basis of the equipment used.

4) ... Values valid only for standard efficiency.

Altivar 1200 power specifications voltage class 6.0 kV

Power specifications

Model	Nominal continous current(A)		Typical motor power (kW)	Type rating (kVA)	Dimension (W*D*H) mm	Approximate weight (kg)
	Standard overload 120%	High overload 150%				
ATV1200-A470-6060...	45	36	393	470	2860x1400x2590	2400
ATV1200-A570-6060...	55	44	477	570	2860x1400x2590	2600
ATV1200-A670-6060...	65	52	560	670	2860x1400x2590	2800
ATV1200-A790-6060...	76	61	660	790	2860x1400x2590	3100
ATV1200-A940-6060...	90	72	786	940	2860x1400x2590	3800
ATV1200-A1040-6060...	100	80	869	1040	3160x1400x2590	4000
ATV1200-A1190-6060...	114	91	995	1190	3660x1400x2520	4400
ATV1200-A1400-6060...	135	108	1170	1400	3660x1500x2670	5000
ATV1200-A1560-6060...	150	120	1304	1560	3660x1500x2820	5300
ATV1200-A1750-6060...	168	135	1463	1750	4360x1500x2670	5600
ATV1200-A2080-6060...	200	160	1739	2080	4660x1500x2670	5800
ATV1200-A2290-6060...	220	176	1914	2290	4660x1600x2670	6300
ATV1200-A2500-6060...	241	192	2090	2500	4660x1600x2670	7700
ATV1200-A2910-6060...	280	224	2433	2910	4660x1600x2820	7900
ATV1200-A3130-6060...	301	241	2617	3130	5770x1600x2670	8500
ATV1200-A3325-6060...	320	256	2780	3325	5770x1600x2670	8800
ATV1200-A3500-6060...	337	269	2926	3500	6070x1700x2670	9600
ATV1200-A3940-6060...	379	303	3294	3940	6070x1700x2670	10900
ATV1200-A4260-6060...	410	328	3561	4260	6070x1700x2740	11100
ATV1200-A4470-6060...	430	344	3737	4470	6070x1700x2740	11300
ATV1200-A5100-6060...	490	392	4264	5100	6070x1700x2820	12500
ATV1200-A5720-6060...	550	440	4782	5720	7770x1800x3040	15300
ATV1200-A6350-6060...	611	489	5309	6350	7770x1800x3040	15600
ATV1200-A6860-6060...	660	528	5735	6860	8670x1600x3040	16500
ATV1200-A7500-6060...	720	576	6270	7500	8970x1700x3040	18400
ATV1200-A8110-6060...	780	624	6780	8110	8970x1700x3040	19900
ATV1200-A8840-6060...	850	680	7390	8840	8970x1700x3040	20300

- 1) ... Please contact Schneider Electric for other combinations of input and output voltage.
- 2) ... For higher drive capacity please contact Schneider Electric
- 3) ... Values are calculated with motor power factor of 0.88 and efficiency of 95%. The real value must be calculated on the basis of the equipment used.
- 4) ... Values valid only for standard efficiency.

Altivar 1200 power specifications voltage class 6.3 kV

Power specifications

Model	Nominal continuous current(A)		Typical motor power (kW)	Type rating (kVA)	Dimension (W*D*H) mm	Approximate weight (kg)
	Standard overload 120%	High overload 150%				
ATV1200-A450-6363...	41	33	376	450	3060x1400x2520	3100
ATV1200-A530-6363...	49	39	443	530	3060x1400x2520	3300
ATV1200-A720-6363...	65	52	602	720	3060x1400x2520	3500
ATV1200-A820-6363...	75	60	686	820	3060x1400x2520	3600
ATV1200-A900-6363...	82	66	752	900	3060x1400x2520	3800
ATV1200-A1020-6363...	94	75	853	1020	3360x1400x2520	4100
ATV1200-A1100-6363...	100	80	920	1100	3360x1400x2520	4200
ATV1200-A1190-6363...	109	87	995	1190	3960x1500x2670	5000
ATV1200-A1480-6363...	135	108	1237	1480	3960x1500x2670	5500
ATV1200-A1640-6363...	150	120	1371	1640	3960x1500x2740	5800
ATV1200-A1970-6363...	180	144	1647	1970	5170x1600x2670	7200
ATV1200-A2190-6363...	200	160	1831	2190	5170x1600x2670	7500
ATV1200-A2400-6363...	220	176	2006	2400	5170x1700x2670	7800
ATV1200-A2670-6363...	245	196	2232	2670	5170x1700x2740	8300
ATV1200-A3050-6363...	280	224	2550	3050	5170x1700x2740	8700
ATV1200-A3490-6363...	320	256	2918	3490	6670x1700x2670	11200
ATV1200-A3760-6363...	345	276	3143	3760	6670x1700x2670	11800
ATV1200-A4240-6363...	388	311	3545	4240	6670x1700x2740	12400
ATV1200-A4470-6363...	410	328	3737	4470	6670x1700x2740	12400
ATV1200-A4770-6363...	437	350	3988	4770	6670x1800x2740	13300
ATV1200-A5350-6363...	490	392	4473	5350	6670x1800x2820	13800
ATV1200-A6000-6363...	550	440	5016	6000	8570x1800x3040	16700
ATV1200-A6660-6363...	612	490	5568	6660	9470x1600x3040	18300
ATV1200-A7200-6363...	660	528	6019	7200	9470x1600x3040	19000
ATV1200-A7860-6363...	720	576	6571	7860	9770x1700x3040	20800
ATV1200-A8550-6363...	783	626	7148	8550	9770x1600x3040	21400
ATV1200-A9300-6363...	850	680	7775	9300	9770x1700x3340	22300

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- 4) ... Values valid only for standard efficiency.

Altivar 1200 power specifications voltage class 6.6 kV

Power specifications

Model	Nominal continuous current(A)		Typical motor power (kW)	Type rating (kVA)	Dimension (W*D*H) mm	Approximate weight (kg)
	Standard overload 120%	High overload 150%				
ATV1200-A 470-6666...	41	33	393	470	3060x1400x2520	3100
ATV1200-A 560-6666...	49	39	468	560	3060x1400x2520	3300
ATV1200-A 750-6666...	65	52	627	750	3060x1400x2520	3500
ATV1200-A 860-6666...	75	60	719	860	3060x1400x2520	3600
ATV1200-A 940-6666...	82	66	786	940	3060x1400x2520	3800
ATV1200-A 1070-6666...	94	75	895	1070	3360x1400x2520	4100
ATV1200-A 1150-6666...	100	80	961	1150	3360x1400x2520	4200
ATV1200-A 1250-6666...	109	87	1045	1250	3960x1500x2670	5000
ATV1200-A 1550-6666...	135	108	1296	1550	3960x1500x2670	5500
ATV1200-A 1715-6666...	150	120	1434	1715	3960x1500x2740	5800
ATV1200-A 2060-6666...	180	144	1722	2060	5170x1600x2670	7200
ATV1200-A 2290-6666...	200	160	1914	2290	5170x1600x2670	7500
ATV1200-A 2515-6666...	220	176	2103	2515	5170x1700x2670	7800
ATV1200-A 2800-6666...	245	196	2341	2800	5170x1700x2740	8300
ATV1200-A 3200-6666...	280	224	2675	3200	5170x1700x2740	8700
ATV1200-A 3660-6666...	320	256	3060	3660	6670x1700x2670	11200
ATV1200-A 3940-6666...	345	276	3294	3940	6670x1700x2670	11800
ATV1200-A 4440-6666...	388	311	3712	4440	6670x1700x2740	12400
ATV1200-A 4685-6666...	410	328	3917	4685	6670x1700x2740	12400
ATV1200-A 5000-6666...	437	350	4180	5000	6670x1800x2740	13300
ATV1200-A 5600-6666...	490	392	4682	5600	6670x1800x2820	13800
ATV1200-A 6300-6666...	550	440	5267	6300	8570x1800x3040	16700
ATV1200-A 7000-6666...	612	490	5852	7000	9470x1600x3040	18300
ATV1200-A 7550-6666...	660	528	6312	7550	9470x1600x3040	19000
ATV1200-A 8250-6666...	720	576	6897	8250	9770x1700x3040	20800
ATV1200-A 8950-6666...	783	626	7482	8950	9770x1700x3040	21400
ATV1200-A 9750-6666...	850	680	8151	9750	9770x1700x3340	22300

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- 4) ... Values valid only for standard efficiency.

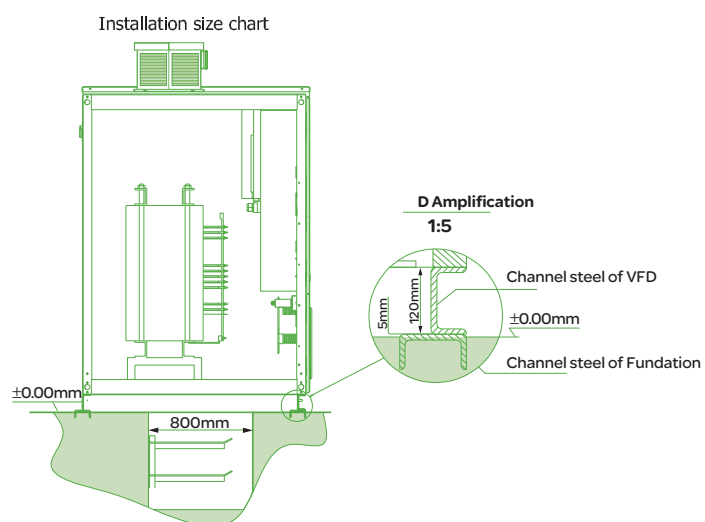
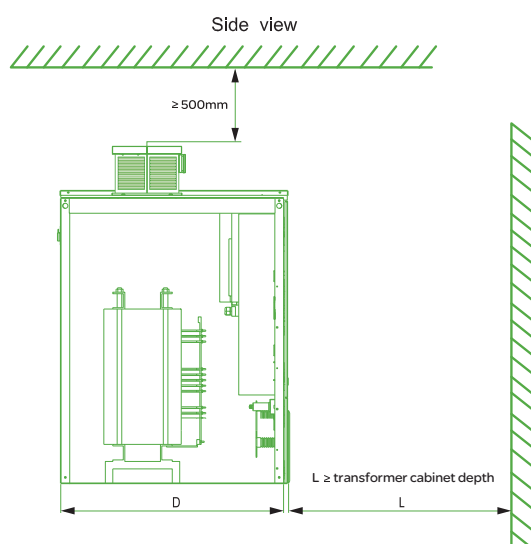
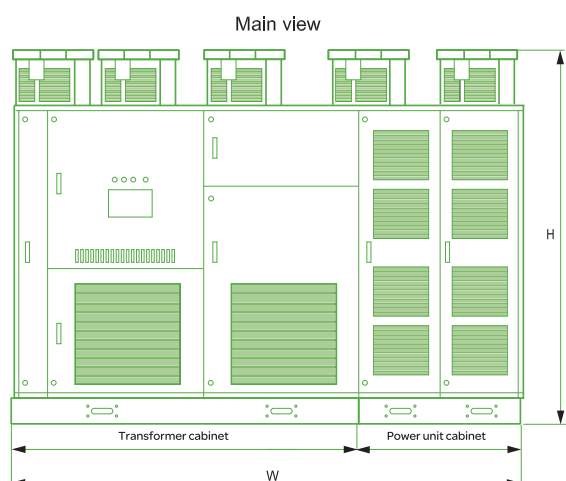
Altivar 1200 power specifications voltage class 10 kV

Power specifications

Model	Nominal continuous current(A)		Typical motor power (kW)	Type rating (kVA)	Dimension (W*D*H) mm	Approximate weight (kg)
	Standard overload 120%	High overload 150%				
ATV1200-A470-1010...	27	22	393	470	3960x1600x2670	4100
ATV1200-A610-1010...	35	28	510	610	3960x1600x2670	4300
ATV1200-A700-1010...	40	32	585	700	3960x1600x2670	4400
ATV1200-A790-1010...	46	36	660	790	3960x1600x2670	4500
ATV1200-A940-1010...	54	43	786	940	4260x1600x2670	4700
ATV1200-A1070-1010...	62	49	895	1070	4260x1600x2670	4900
ATV1200-A1130-1010...	65	52	945	1130	4260x1600x2670	5000
ATV1200-A1250-1010...	72	58	1045	1250	4260x1700x2670	5100
ATV1200-A1570-1010...	91	73	1313	1570	4260x1700x2670	5500
ATV1200-A1730-1010...	100	80	1446	1730	4260x1700x2670	5700
ATV1200-A2000-1010...	115	92	1672	2000	5160x1700x2670	6900
ATV1200-A2340-1010...	135	108	1956	2340	5160x1700x2670	7300
ATV1200-A2600-1010...	150	120	2174	2600	6060x1500x2740	7900
ATV1200-A2800-1010...	162	129	2341	2800	6870x1500x2670	9100
ATV1200-A3130-1010...	181	145	2617	3130	6870x1500x2670	9400
ATV1200-A3470-1010...	200	160	2901	3470	6870x1500x2670	9900
ATV1200-A3810-1010...	220	176	3185	3810	6870x1500x2670	10300
ATV1200-A4440-1010...	256	205	3712	4440	7170x1600x3040	11500
ATV1200-A4850-1010...	280	224	4055	4850	7170x1600x3040	12000
ATV1200-A5000-1010...	289	231	4180	5000	9070x1600x3040	14800
ATV1200-A5540-1010...	320	256	4631	5540	9070x1600x3040	15200
ATV1200-A6250-1010...	361	289	5225	6250	9070x1600x3040	16700
ATV1200-A7100-1010...	410	328	5936	7100	9370x1700x3040	18300
ATV1200-A7900-1010...	456	365	6604	7900	9370x1700x3040	20100
ATV1200-A8500-1010...	490	392	7106	8500	9370x1700x3040	20100
ATV1200-A9530-1010...	550	440	7967	9530	14480x1600x3040	26200
ATV1200-A10600-1010...	612	490	8862	10600	14480x1600x3040	26700
ATV1200-A11500-1010...	664	531	9614	11500	15080x1600x3040	28400
ATV1200-A12500-1010...	720	576	10450	12500	15080x1600x3040	30400
ATV1200-A13500-1010...	779	624	11286	13500	15680x1700x3040	32000
ATV1200-A14750-1010...	850	680	12331	14750	15680x1700x3040	37400

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Altivar 1200: Basic guidelines on installation and maintenance





Preparing your quote couldn't be easier.
Simply fill in the form on the next page
and send it to our head office.

Date		Name		Phone	
Company		Position/Organization		E-mail	
Project name		Country			
Market segment	☐ Water & Wastewater ☐ Oil & Gas ☐ Power generation ☐ Mining, Minerals & Metals ☐ Other				
Application	☐ Pump ☐ Fan ☐ Compressor ☐ Extruder ☐ Other				
End user	EPC		OEM		SI
Standards & Certifications	☐ IEC ☐ ANSI ☐ IEE ☐ UL ☐ Other				
Customer specifications					
Project status	☐ Budget estimate		☐ RFQ phase		
Purchasing time frame	☐ less than 6 months		☐ between 6 & 12 months		☐ between 12 & 18 months ☐ more than 18 months
Other information					
Scope of supply					
Quantity of MV drives					
Scope of supply	☐ Drive ☐ Input transformer ☐ By-pass ☐ Input switch/breaker ☐ Output switch/breaker ☐ Motor ☐ Other				
Supply data					
Power supply	Voltage	kV ± %	Frequency	Hz ± %	
	Short circuit power	(MVA) max:	min:	HV cable length	
Auxiliary supply	Voltage	V ± %	Frequency	Hz ± %	
Control supply	UPS (Y/N)	No. of phases	V	Hz	
Motor parameters					
Type of motor	☐ Induction ☐ Synchronous ☐ New ☐ Existing (retrofit)				
	Rated power	kW		hp	Number of poles
	Maximum power	kW		hp	
	Rated speed	rpm	Maximum speed	rpm	
	Rated frequency	Hz	Efficiency	%	Power factor
	Rated current	A	DOL starting current	A	
	Maximum torque	%	Inertia J (GD ² /4)	kgm ²	
	Excitation current	A	Excitation voltage	V	
Ventilation	☐ Self-ventilated ☐ Force-ventilated				
Load parameters					
Type of load	☐ Variable torque ☐ Constant torque ☐ Constant power ☐ Other				
	Breakaway torque (at 0 rpm)	kNm		pu	
Gear	Reduction ratio	Inertia J (GD ² /4)		kgm ²	
	Starting time				
	Overtorque	☐ 120% 60 s every 10 min. ☐ 150% 60 s every 10 min. ☐ Other			
	Acceleration time	Deceleration time			
Braking	☐ Regenerative ☐ Resistance		Braking power	kW Cycle	
	☐ Reverse speed				
Installation					
Temperature (°C)	Indoor:	min.	max.	Outdoor:	min. max.
Relative humidity	Altitude	☐ less than 1000 m ☐ Other			
Drive	☐ Indoor ☐ Outdoor ☐ Inside container Rectifier ☐ 12-pulse input ☐ 24-pulse input ☐ Other ☐ Air cooling ☐ Water cooling				
Input transformer	☐ Dry type ☐ Oil filled ☐ Indoor ☐ Outdoor ☐ IP 00 ☐ IP54 ☐ Other				
Distance	Transformer to drive		Drive to motor		
Interface					
No. of analog inputs	24 VDC	4~20mA		No. of analog outputs	24V VDC 4~20mA
No. of digital inputs	No. of digital outputs			Dry contact	
Communication	☐ Ethernet ☐ Modbus ☐ Profibus ☐ DeviceNet ☐ Other				

MV drive partner The Netherlands

Electroproject

Our MV drive partner Electroproject brings extended knowledge and experience in the field of drive system projects, with the right added value in engineering, commissioning and support.



Electroproject has over 80 years experience in developing, designing and implementation of electric drive systems. Worldwide, we serve a variety of customers. From amusement park attraction builders to water boards. From machine builders to large industries.

No innovation, no future. As drive specialist Electroproject is your partner to deliver innovative products and services. We deliver! We invest how to improve and face all challenges, safety first and we are not satisfied until you are.



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Schneider Electric

Schneider Electric, global specialist in energy management, that acquired Leader Harvest Power Technologies, one of the leading players in medium voltage drives, offers products and solutions that provide energy efficiency to its key targeted segments.

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