QGH5721601

ATV630•••••MN
ATV930•••••MN

ATV630C22N4MN, C25N4MN, C31N4MN

ATV930C22N4MN, C22N4CMN
C25N4CMN, C31N4CMN

You must have detailed information to be able to carry out the installation and commissioning.
This information can be found in the following manuals that can be downloaded on:
www.schneider-electric.com/drives
- ATV630-650 Installation manual (EAV64301)
- ATV930-950 Installation manual (NHA80932)

⚠ ⚠ DANGER

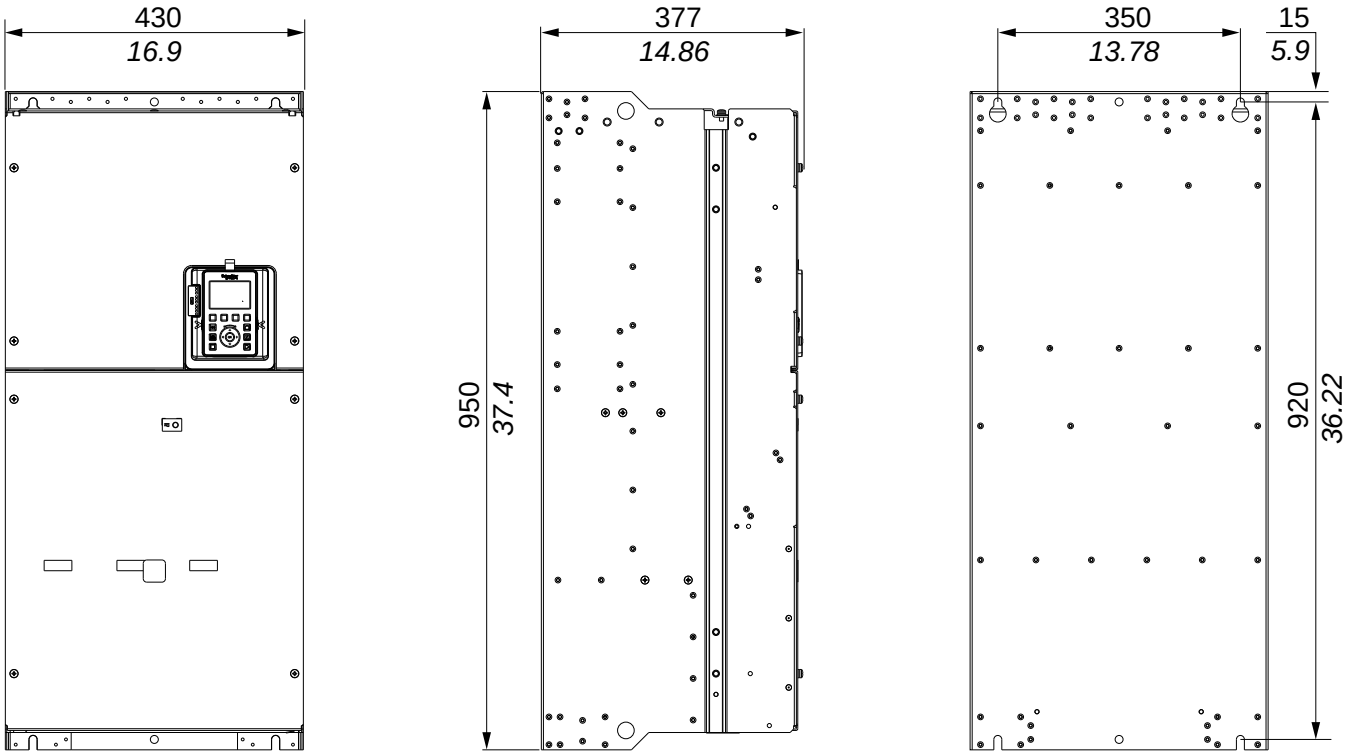
HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Only appropriately trained persons who are familiar with and understand the contents of this manual and all other pertinent product documentation and who have received safety training to recognize and avoid hazards involved are authorized to work on and with this drive system. Installation, adjustment, repair and maintenance must be performed by qualified personnel.
- The system integrator is responsible for compliance with all local and national electrical code requirements as well as all other applicable regulations with respect to grounding of all equipment.
- Many components of the product, including the printed circuit boards, operate with mains voltage.
- Only use properly rated, electrically insulated tools and measuring equipment.
- Do not touch unshielded components or terminals with voltage present.
- Motors can generate voltage when the shaft is rotated. Prior to performing any type of work on the drive system, block the motor shaft to prevent rotation.
- AC voltage can couple voltage to unused conductors in the motor cable. Insulate both ends of unused conductors of the motor cable.
- Do not short across the DC bus terminals or the DC bus capacitors or the braking resistor terminals.
- Before performing work on the drive system:
  - Disconnect all power, including external control power that may be present.
    Take into account that the circuit breaker or main switch does not de-energize all circuits.
  - Place a "Do Not Turn On" label on all power switches related to the drive system.
  - Lock all power switches in the open position.
  - Wait 15 minutes to allow the DC bus capacitors to discharge.
  - Follow the instructions given in the chapter “Verifying the Absence of Voltage” in the installation manual of the product.
- Before applying voltage to the drive system:
  - Verify that the work has been completed and that the entire installation cannot cause hazards.
  - If the mains input terminals and the motor output terminals have been grounded and short-circuited, remove the ground and the short circuits on the mains input terminals and the motor output terminals.
  - Verify proper grounding of all equipment.
  - Verify that all protective equipment such as covers, doors, grids is installed and/or closed.

Failure to follow these instructions will result in death or serious injury.

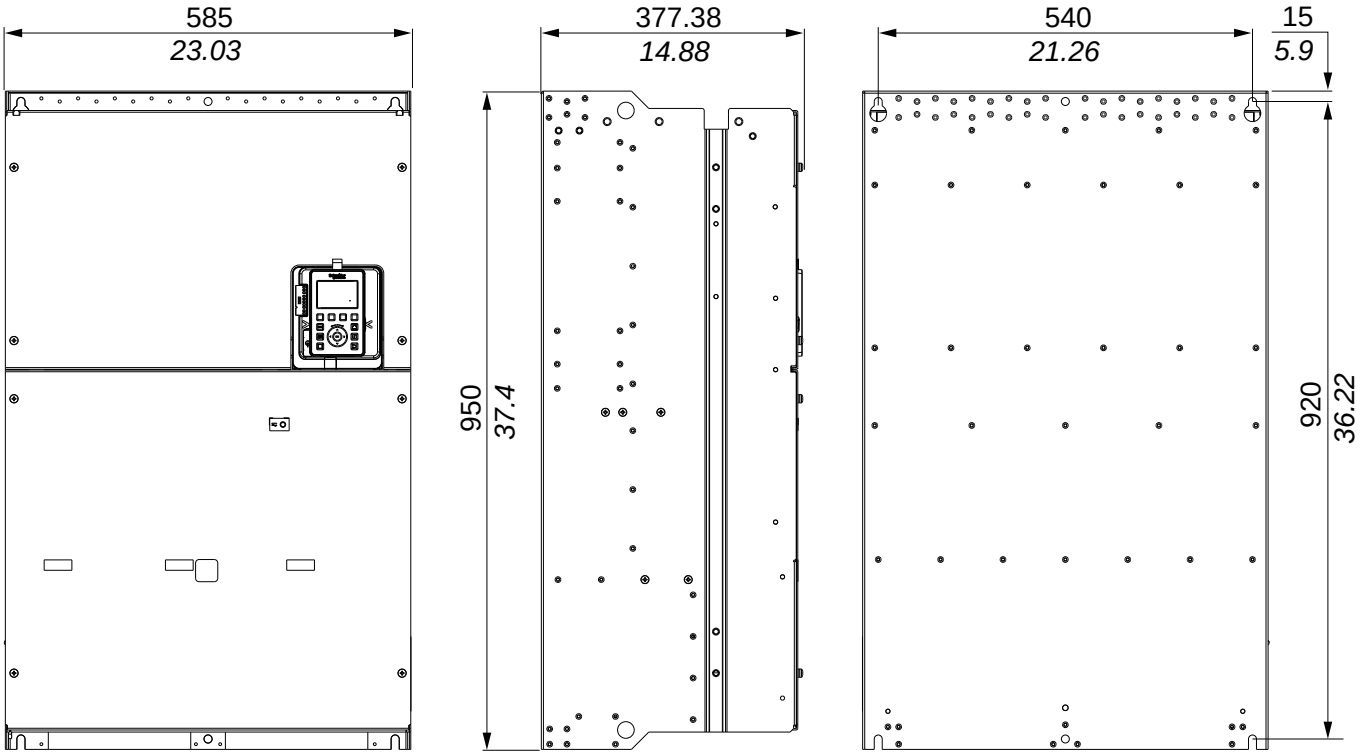
Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel.
No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.
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mm
in.



IP20 ATV630C22N4MN, ATV930C22N4MN, ATV930C22N4CMN
weight: 108 kg / *238.1 lb*

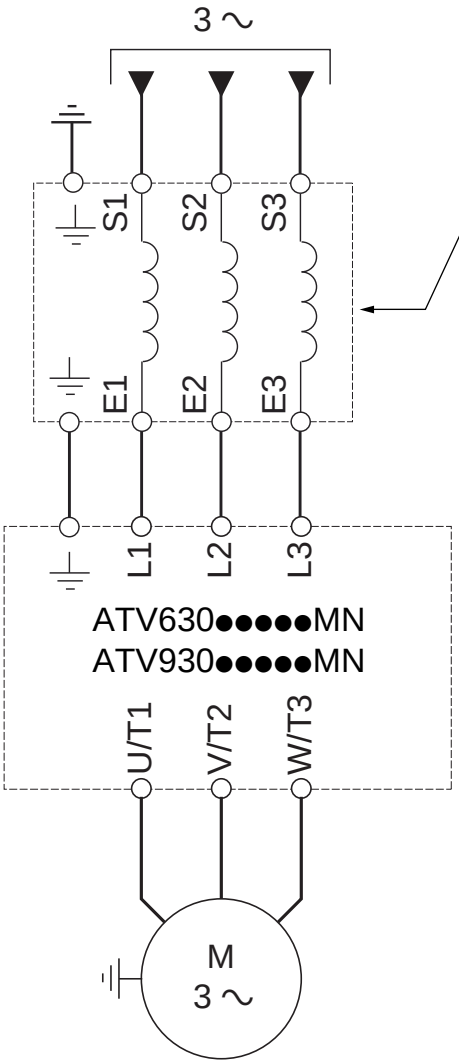
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IP20 ATV630C25N4MN, ATV930C25N4CMN, ATV630C31N4MN, ATV930C31N4CMN
weight: 150 kg / *330.7 lb*

Line Chokes to wire

Wiring diagram



	Inductance (mH)
ATV630C22N4MN ATV630C25N4MN ATV930C22N4MN ATV930C22N4CMN ATV930C25N4CMN	0.06
ATV630C31N4MN ATV930C31N4CMN	0.038

Power dissipated at nominal load

	Forced Cooled Area (W)	Natural Cooled Area (W)
ATV630C22N4MN ATV930C22N4MN ATV930C22N4CMN	4635	451
ATV630C22N4MN ATV930C22N4MN ATV930C22N4CMN	5381	606
ATV630C31N4MN ATV630C31N4CMN	6602	769

ATV630•••••MN EAV64301

ATV930•••••MN NHA80932

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Short-Circuit Current Ratings (SCCR) and Branch Circuit Protection

The combinations in the table below have been tested per UL508C. (Reference UL file E116875). These ratings allow proper coordination of short circuit protection. The product would exceed a 100 kA interrupt rating on the output.

Altivar Process drives are provided with integral overload and over-speed monitoring and can provide motor overload protection at 100% of the
full load motor current. The motor thermal current [Motor Th Current] ,EH must be set to the rated current indicated on the motor nameplate.
For more information refer to the ATV600 programming manual (EAV64318) or ATV900 programming manual (NHA80757).

The opening of the branch circuit protective device may be an indication that a fault current has been interrupted.

⚠⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Current-carrying parts and other components of the controller should be examined and replaced if damaged.
- If burnout of the current element of an overload relay occurs, the complete overload relay must be replaced.

Failure to follow these instructions will result in death or serious injury.

75°C (167°F) copper conductor with the AWG wire size shown on nameplate for all sizes.
Suitable for use on a circuit capable of delivering not more than **__X__** rms symmetrical kiloAmperes, **__Y__** Volts maximum, when protected by **__Z1__** with a maximum rating of **__Z2_**.

Altivar Process				**Short Circuit Current Ratings** (a) (b)			
Input Voltage 50/60 Hz Y	**Power Ratings in Normal Duty**		**Catalog Number**	**With Fuses** (d) **SCCR X = 100 kA**		**With Circuit Breaker** (f) **SCCR X = 100 kA**	
	(kW)	**(HP)**		**Fuse Ampere Rating (A) Z1, Z2**	**Minimum Enclosure Volume (cu. in.)**	**Power Pact Z1, Z2**	**Minimum Enclosure Volume (cu. in.)**
400/480 Vac Three-phase				**With Fuses** (d) **SCCR X = 18 kA**			
	220	350	ATV630C22N4MN ATV930C22N4MN ATV930C22N4CMN	500 (c)	order VW3A9212	–	–
	250	400	ATV630C25N4MN	600 (c)	order VW3A9213	–	–
			ATV930C25N4MN ATV930C25N4CMN	600 (c)	order VW3A9213 (g) order VW3A9214 (h)	–	–
				With Fuses (e) **SCCR X = 30 kA**			
	315	500	ATV630C31N4MN	600 (c)	order VW3A9213	–	–
			ATV930C31CN4MN	600 (c)	order VW3A9213 (g) order VW3A9214 (h)	–	–

Altivar Process				**Short Circuit Current Ratings** (a) (b)		
Input Voltage 50/60 Hz Y	**Power Ratings in Normal Duty**		**Catalog Number**	**With Fuses, SCCR X = 100 kA**		
	(kW)	**(HP)**		**Line Reactor Minimum Value (mH)**	**Fuse Ampere Rating (A) Z1, Z2**	**Minimum Enclosure Volume (cu. in.)**
400/480 Vac Three-phase	220	350	ATV630C22N4MN ATV930C22N4MN ATV930C22N4CMN	0.05	500 (i)	53550
	250	400	ATV630C25N4MN ATV930C25N4CMN	0.05	600 (j)	
	315	500	ATV630C31N4MN ATV930C31N4CMN	0.04		

(a) The amp rating of the short circuit protection devices in the table are maximum values. Smaller amp sizes may be used; particularly for Heavy Duty ratings. Branch circuit protection must be provided in accordance with the National Electrical Code and any additional local codes.

(b) The maximum prospective short circuit current value that cannot be exceeded is 100 kA. Electrical distribution systems with a higher prospective short circuit will cause higher input currents in the front end of the drive.

(c) Ratings apply to the Altivar Process Type 1 product when mounted on a wall or when mounting in a Type 1, 12, 3R, or 4X rated enclosure.

(d) Use Class CC or J fast acting or time delay.

(e) Use Class CC or J fast acting.

(f) Ratings apply to an Altivar Process mounted in a Type 1, 12, 3R or 4(X) rated enclosure.

(g) Without braking unit

(h) With braking unit

(i) Bussmann number: LPJ500SP, do not substitute.

(j) Bussmann number: LPJ600SP, do not substitute