

Official Product Identity Mapping

ATV310H075N4A

Schneider Electric identifies ATV310H075N4A as an Easy Altivar 310 variable speed drive.

The official exact-model page specifies 0.75 kW / 1 hp heavy duty, 380 to 460 V three-phase supply, and no integrated EMC filter.

The official English ATV310 user manual EAV94277 uses the ATV310H075N4 family reference for the corresponding rating and EMC-filter tables.

Official model page:

<https://www.se.com/hk/en/product/ATV310H075N4A/>

Before you begin

Read and understand these instructions before performing any procedure with this drive.

DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- Only appropriately trained persons who are familiar with and fully understand the contents of the present manual and all other pertinent product documentation and who have received all necessary 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.
- Verify compliance with all local and national electrical code requirements as well as all other applicable regulations with respect to grounding of all equipment.
- Only use properly rated, electrically insulated tools and measuring equipment.
- Do not touch unshielded components or terminals with voltage present.
- Prior to performing any type of work on the drive system, block the motor shaft to prevent rotation.
- 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.
 - Place a "Do Not Turn On" label on all power switches.
 - Lock all power switches in the open position.
 - Wait 15 minutes to allow the DC bus capacitors to discharge. The DC bus LED is not an indicator of the absence of DC bus voltage that can exceed 800 Vdc.
 - Verify that no other voltage is present in the drive system.
- 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.

WARNING

UNEXPECTED MOVEMENT

Drive systems may perform unexpected movements because of incorrect wiring, incorrect settings, incorrect data or other errors.

- Carefully install the wiring in accordance with the EMC requirements.
- Do not operate the product with unknown or unsuitable settings or data.
- Perform a comprehensive commissioning test.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

Damaged products or accessories may cause electric shock or unanticipated equipment operation.

DANGER

ELECTRIC SHOCK OR UNANTICIPATED EQUIPMENT OPERATION

Do not use damaged products or accessories.

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

Contact your local Schneider Electric sales office if you detect any damage whatsoever.

NOTICE

RISK OF DAMAGE TO THE DRIVE

The drive should be cleaned and maintained on a regular basis when operating in high temperature, humid, greasy, chemical, dusty or vibrating environments to prevent reduced driver lifespan and equipment damage.

Failure to follow these instructions can result in equipment damage.

Drive& ratings

Three-phase supply voltage: 380 V...460 V 50/60 Hz

For three Phase Output 380 V...460 V asynchronous motors

Motor	Line supply (input)			Drive (output)			EMC category (5)	Reference	Frame Size
Power indicated on plate (1)	Maximum line current (4)		Apparent power	Nominal Current In	Max. transient current for 60 s	Power dissipated at nominal current			
HD: Heavy duty (2) ND: Normal duty (3)	at 380 V	at 460 V							
kW	A	A	kVA	A	A	W			
HD 0.37	2.1	1.8	1.4	1.5	2.3	22.7		ATV310H037N4●	1
HD 0.75	3.5	3.1	2.5	2.3	3.5	34.1		ATV310H075N4●	1
HD 1.5	6.5	5.4	4.3	4.1	6.2	60.4		ATV310HU15N4●	2
HD 2.2	8.8	7.2	5.7	5.5	8.3	75.5		ATV310HU22N4●	2
HD 3	11.1	9.2	7.3	7.1	10.7	90.8		ATV310HU30N4●	3
ND 4	14.2	11.6	9.3	8.9	9.8	120.4			
HD 4	13.7	11.4	9.1	9.5	14.3	115.1		ATV310HU40N4●	3
ND 5.5	18.0	14.9	11.8	12.1	13.3	158.3			
HD 5.5	21.3	14.3	11.4	12.6	18.9	162.4		ATV310HU55N4●	3
ND 7.5	23.0	19.0	15.1	16	17.6	201.9			
HD 7.5	26.6	22.4	17.8	17	25.5	241.2		ATV310HU75N4●	4
ND 11	29.5	24.8	19.4	22.8	25.1	317.8			
HD 11	36.1	30.4	24.2	24	36.0	337.1		ATV310HD11N4●	4
ND 15	38.6	32.5	25.4	30	33.0	407.0			
HD 15	46.5	38.5	30.7	33	49.5	416.0		ATV310HD15N4●	5
ND 18.5	46.6	38.8	31.2	36	39.6	451.7			
HD 18.5	55.3	45.8	36.5	39	58.5	515.9		ATV310HD18N4●	5
ND 22	54.1	45.1	35.7	43	47.3	539.4			
HD 22	64.2	53.2	46.2	46	69	568.8		ATV310HD22N4●	6
ND 30	71.2	59.2	47	60	66	735.6			
HD 15	46.5	38.5	30.7	33	49.5	424.4	C3	ATV310HD15N4●F	5
ND 18.5	46.6	38.8	31.2	36	39.6	460.2			
HD 18.5	55.3	45.8	36.5	39	58.5	527.8	C3	ATV310HD18N4●F	5
ND 22	54.1	45.1	35.7	43	47.3	550.9			
HD 22	64.2	53.2	46.2	46	69	593.5	C3	ATV310HD22N4●F	6
ND 30	71.2	59.2	47	60	66	765.9			

(1) These power ratings are for a Switching frequency range of 4 kHz, in continuous operation. The Switching frequency range is adjustable from 2 to 12 kHz.

Above 4 kHz, the drive will reduce the Switching frequency range if an excessive temperature rise occurs. Derating should be applied to the nominal drive current if continuous operation above 4 kHz is required:

- 10% derating for 8 kHz
- 20% derating for 12 kHz

(2) Values given for applications requiring significant overload (up to 150% for 60 s).

(3) Values given for applications requiring slight overload (up to 110% for 60 s).

(4) Line current network requirements:

- ≤ 4 kW, network short circuit current $I_{sc} \leq 5$ kA
- > 4 kW, network short circuit current $I_{sc} : \leq 22$ kA for Heavy duty, ≤ 5 kA for Normal duty

(5) • Altivar ATV310...N4•F drives with integrated EMC filter fulfill IEC/EN61800-3 with 25 m/82 ft shielded motor cable for CE, and with 5m/16.4ft shielded motor cable for RE.

- Altivar ATV310...N4• drives without integrated EMC filter, need to add external EMC filter to fulfill the IEC/EN 61800-3 standard. Refer to External EMC filter selection table page [14](#).

NOTICE

RISK OF DAMAGE TO THE DRIVE

The drive will be damaged if it operates above the nominal current (I_n) for an extended period of time.

Operating time should not exceed 60 s at $1.5 \times I_n$.

Failure to follow these instructions can result in equipment damage.

Drive& ratings

External EMC filter selection table

When the drive is without integrated EMC filter, the following external EMC filter is mandatory required to fulfill the IEC/EN 61800-3 C3 category.

Drive Reference	380V line input current (A)		EMC filter reference	EN 61800-3	
	HD	ND		Conduct emission	Radiated emission
ATV310H037N4•	2.1	N/A	VW3A4422	C3 max shielded cable 25m	C3 max shielded cable 5m
ATV310H075N4•	3.5	N/A			
ATV310HU15N4•	6.5	N/A			
ATV310HU22N4•	8.8	N/A			
ATV310HU30N4•	11.1	14.2	VW3A31406		
ATV310HU40N4•	13.7	18			
ATV310HU55N4•	21.3	23			
ATV310HU75N4•	26.6	29.5	VW3A4425		
ATV310HD11N4•	36.1	38.6			
ATV310HD15N4•	46.5	46.6			
ATV310HD18N4•	55.3	54.1	VW3A311410		
ATV310HD22N4•	64.2	71.2			



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