

Dimensions (in mm)		width x height x depth	
T2	: 130 x 230 x 175	T3	: 155 x 260 x 187
T4	: 175 x 295 x 187	T5A	: 210 x 295 x 213
T5B	: 230 x 400 x 213	T6	: 240 x 420 x 236
T7A	: 240 x 550 x 266	T7B	: 320 x 550 x 266
T8	: 320 x 630 x 290	T9	: 320 x 920 x 377
T10	: 360 x 1022 x 377	T11	: 340 x 1190 x 377
T12	: 440 x 1190 x 377	T13	: 595 x 1190 x 377
T14	: 890 x 1390 x 377	T15	: 1120 x 1390 x 377



Type of drive			Single-phase	Three-phase	Three-phase			
Supply voltage			200...240 V	200...240 V	380...480 V			
<b>Degree of protection</b>			IP20 for unprotected drives and IP41 on the upper part					
<b>Drive</b>	Output frequency		0.1...599 Hz up to 37 kW; 0.1...500 Hz from 45 to 800 kW					
	Type of control	Asynchronous motor	Kn <sup>2</sup> quadratic ratio, flux vector control with or without sensor, voltage/frequency ratio (2 or 5 points), energy saving ratio					
		Synchronous motor	Vector control without speed feedback					
	Transient overtorque		120...130% of the nominal drive current for 60 seconds					
<b>Speed range</b>			1...100 in open loop mode					
<b>Functions</b>	Number of functions		> 150					
	Number of preset speeds		16					
	Number of I/O		Analog inputs 2...4/Logic inputs 6...20					
			Analog outputs 1...3/Logic outputs 0...8					
			Relay outputs 2...4					
<b>Dialogue</b>			Safety input 1					
<b>Communication</b>			Remote graphic display terminal, SoMove setup software (3)					
<b>Communication</b>			Modbus and CANopen					
<b>Communication</b>			As an option					
<b>Communication</b>			<b>HVAC protocols:</b> LonWorks, BACnet, METASYS N2, APOGEE FLN P1 <b>Industrial protocols:</b> Modbus TCP Daisy Chain, Modbus/Uni-Telway, EtherNet/IP, EtherCAT, DeviceNet, PROFIBUS DP V0 and V1, INTERBUS, CC-Link					
<b>Cards (available as an option)</b>			Multi-pump cards, I/O extension cards, "Controller Inside" programmable card					
<b>Reduction of current harmonics</b>			DC choke integrated or supplied with the drive or AFE Altivar (Active Front End)					
<b>EMC filter</b>	Integrated		C2 EMC	C2 EMC up to 7.5 kW	C2 EMC up to 4 kW			
	As an option		C1 EMC	C1 EMC	C3 EMC from 5.5 to 630 kW C1 EMC from 0.75 to 630 kW			
<b>Motor power</b>	kW/HP	0.37/0.5	ATV61H075M3	T2	–	–		
		0.75/1	ATV61HU15M3	T2	ATV61H075M3	T2	ATV61H075N4	T2
		1.5/2	ATV61HU22M3	T3	ATV61HU15M3	T2	ATV61HU15N4	T2
		2.2/3	ATV61HU30M3	T3	ATV61HU22M3	T3	ATV61HU22N4	T2
		3/–	ATV61HU40M3 (1)	T3	ATV61HU30M3	T3	ATV61HU30N4	T3
		4/5	ATV61HU55M3 (1)	T4	ATV61HU40M3	T3	ATV61HU40N4	T3
		5.5/7.5	ATV61HU75M3 (1)	T5A	ATV61HU55M3	T4	ATV61HU55N4	T4
		7.5/10	–	–	ATV61HU75M3	T5A	ATV61HU75N4	T4
		11/15	–	–	ATV61HD11M3X(2)	T5B	ATV61HD11N4	T5A
		15/20	–	–	ATV61HD15M3X(2)	T5B	ATV61HD15N4	T5B
		18.5/25	–	–	ATV61HD18M3X(2)	T6	ATV61HD18N4	T5A
		22/30	–	–	ATV61HD22M3X(2)	T6	ATV61HD22N4	T6
		30/40	–	–	ATV61HD30M3X(2)	T7B	ATV61HD30N4	T7A
		37/50	–	–	ATV61HD37M3X(2)	T7B	ATV61HD37N4	T7A
		45/60	–	–	ATV61HD45M3X(2)	T7B	ATV61HD45N4	T8
		55/75	–	–	ATV61HD55M3X(2)	T9	ATV61HD55N4	T8
		75/100	–	–	ATV61HD75M3X(2)	T9	ATV61HD75N4	T8
		90/125	–	–	ATV61HD90M3X(2)	T10	ATV61HD90N4	T9
		110/150	–	–	–	–	ATV61HC11N4	T9
		132/200	–	–	–	–	ATV61HC13N4	T10
		160/250	–	–	–	–	ATV61HC16N4	T11
		220/350	–	–	–	–	ATV61HC22N4	T12
		250/400	–	–	–	–	ATV61HC25N4	T13
		315/500	–	–	–	–	ATV61HC31N4	T13
		400/600	–	–	–	–	ATV61HC40N4	T14
		500/700	–	–	–	–	ATV61HC50N4	T14
		630/900	–	–	–	–	ATV61HC63N4	T15

(1) Must be used with a line choke, refer to the Schneider Electric catalogue.

(2) Drive supplied without EMC filter

(3) SoMove setup software : available from 2011. Altivar 61 is also supported by Powersuite software workshop.

For all other variants, please refer to the Schneider Electric catalogue.

PF107483



ATV 61HU22N4

PF107575



ATV 61HU40N4Z

PF107481



ATV 61HC31N4

## UL Type 1/IP20 drives

Motor		Line supply				Altivar 61			Reference	Weight
Power indicated on plate (1)	HP	Line current (2)		Apparent power	Max. prospective line Isc	Maximum continuous current (1)		Max. transient current for 60 s		
		380 V	480 V	380 V	kA	380 V	460 V	A		
kW	HP	A	A	kVA	kA	A	A	A	kg	
<b>Three-phase supply voltage: 380...480 V 50/60 Hz</b>										
0.75	1	3.7	3	2.4	5	2.3	2.1	2.7	ATV 61H075N4	3.000
1.5	2	5.8	5.3	3.8	5	4.1	3.4	4.9	ATV 61HU15N4	3.000
2.2	3	8.2	7.1	5.4	5	5.8	4.8	6.9	ATV 61HU22N4	3.000
3	–	10.7	9	7	5	7.8	6.2	9.3	ATV 61HU30N4	4.000
4	5	14.1	11.5	9.3	5	10.5	7.6	12.6	ATV 61HU40N4	4.000
5.5	7.5	20.3	17	13.4	22	14.3	11	17.1	ATV 61HU55N4	5.500
7.5	10	27	22.2	17.8	22	17.6	14	21.1	ATV 61HU75N4	5.500
11	15	36.6	30	24.1	22	27.7	21	33.2	ATV 61HD11N4	7.000
15	20	48	39	31.6	22	33	27	39.6	ATV 61HD15N4	22.000
18.5	25	45.5	37.5	29.9	22	41	34	49.2	ATV 61HD18N4	22.000
22	30	50	42	32.9	22	48	40	57.6	ATV 61HD22N4	30.000
30	40	66	56	43.4	22	66	52	79.2	ATV 61HD30N4	37.000
37	50	84	69	55.3	22	79	65	94.8	ATV 61HD37N4	37.000
45	60	104	85	68.5	22	94	77	112.8	ATV 61HD45N4	44.000
55	75	120	101	79	22	116	96	139.2	ATV 61HD55N4	44.000
75	100	167	137	109.9	22	160	124	192	ATV 61HD75N4	44.000
90	125	166	143	109.3	35	179	179	214.8	ATV 61HD90N4	60.000
110	150	202	168	133	35	215	215	258	ATV 61HC11N4	68.000
132	200	239	224	157.3	35	259	259	310.8	ATV 61HC13N4	74.000
160	250	289	275	190.2	50	314	314	376.8	ATV 61HC16N4	80.000
200	300	357	331	235	50	427	427	512.4	ATV 61HC22N4	110.000
220	350	396	383	260.6	50					
250	400	444	435	292.2	50	481	481	577.2	ATV 61HC25N4	140.000
280	450	494	494	325.1	50	616	616	739.2	ATV 61HC31N4	140.000
315	500	555	544	365.3	50					
355	–	637	597	419.3	50	759	759	910.8	ATV 61HC40N4	215.000
400	600	709	644	466.6	50					
500	700	876	760	576.6	50	941	941	1129.2	ATV 61HC50N4	225.000
560	800	978	858	643.6	50	1188	1188	1425.6	ATV 61HC63N4	300.000
630	900	1091	964	718	50					SFib

(1) These values are given for a nominal switching frequency of 12 kHz up to ATV 61HD75N4, 4 kHz for ATV 61HD90N4 or 2.5 kHz for ATV 61HC11N4...HC63N4, for use in continuous operation.

The switching frequency is adjustable from 1...16 kHz up to ATV 61HD75N4 and 2...8 kHz for ATV 61HD90N4...ATV 61HC63N4.

Above 2.5, 4 or 12 kHz depending on the rating, the drive will reduce the switching frequency automatically in the event of an excessive temperature rise. For continuous operation above the nominal switching frequency, derate the nominal drive current (see derating curves on pages 60678/2 to 60678/8).

(2) Typical value for the indicated motor power and for the maximum prospective line Isc.

**Note:** Consult the summary tables of possible drive, option and accessory combinations, see pages 60674/4, 60674/5, 60674/10 and 60674/11.