

Drive ratings

Single phase supply voltage: 200...240 V 50/60 Hz

For three phase output 200/240 V motors

Motor		Line supply (input)				Drive (output)			Reference	Size
Power indicated on plate (1)		Max. current line (2)		Apparent power	Max. inrush current (3)	Power dissipated at nominal current	Nominal current (1)	Max. transient current (1) (4)		
		at 200 V	at 240 V							
kW	HP	A	A	kVA	A	W	A	A		
0.18	0.25	3.0	2.5	0.6	10	24	1.5	2.3	ATV312H018M2(5)	3
0.37	0.5	5.3	4.4	1.0	10	41	3.3	5.0	ATV312H037M2(5)	3
0.55	0.75	6.8	5.8	1.4	10	46	3.7	5.6	ATV312H055M2(5)	4
0.75	1	8.9	7.5	1.8	10	60	4.8	7.2	ATV312H075M2(5)	4
1.1	1.5	12.1	10.2	2.4	19	74	6.9	10.4	ATV312HU11M2(5)	6
1.5	2	15.8	13.3	3.2	19	90	8.0	12.0	ATV312HU15M2(5)	6
2.2	3	21.9	18.4	4.4	19	123	11.0	16.5	ATV312HU22M2(5)	7

Three phase supply voltage: 200...240 V 50/60 Hz

For three phase output 200/240 V motors

Motor		Line supply (input)				Drive (output)			Reference	Size
Power indicated on plate (1)		Max. current line (2)		Apparent power	Max. inrush current (3)	Power dissipated at nominal current	Nominal current (1)	Max. transient current (1) (4)		
		at 200 V	at 240 V							
kW	HP	A	A	kVA	A	W	A	A		
0.18	0.25	2.1	1.9	0.7	10	23	1.5	2.3	ATV312H018M3	1
0.37	0.5	3.8	3.3	1.3	10	38	3.3	5.0	ATV312H037M3	1
0.55	0.75	4.9	4.2	1.7	10	43	3.7	5.6	ATV312H055M3	2
0.75	1	6.4	5.6	2.2	10	55	4.8	7.2	ATV312H075M3	2
1.1	1.5	8.5	7.4	3.0	10	71	6.9	10.4	ATV312HU11M3	5
1.5	2	11.1	9.6	3.8	10	86	8.0	12.0	ATV312HU15M3	5
2.2	3	14.9	13.0	5.2	10	114	11.0	16.5	ATV312HU22M3	6
3	3	19.1	16.6	6.6	19	146	13.7	20.6	ATV312HU30M3	7
4	5	24	21.1	8.4	19	180	17.5	26.3	ATV312HU40M3	7
5.5	7.5	36.8	32.0	12.8	23	292	27.5	41.3	ATV312HU55M3	8
7.5	10	46.8	40.9	16.2	23	388	33.0	49.5	ATV312HU75M3	8
11	15	63.5	55.6	22.0	93	477	54.0	81.0	ATV312HD11M3	9
15	20	82.1	71.9	28.5	93	628	66.0	99.0	ATV312HD15M3	9

(1) These power ratings and currents are for a maximum ambient temperature of 50°C and a switching frequency of 4 kHz in continuous operation. The switching frequency is adjustable from 2 to 16 kHz.

Above 4 kHz, the drive will reduce the switching frequency in the event of excessive temperature rise. The temperature rise is controlled by a sensor in the power module. Nonetheless, the nominal drive current should be derated if operation above 4 kHz needs to be continuous.

Derating curves are shown on page 15 as a function of switching frequency, ambient temperature and mounting conditions.

(2) Current on a line supply with the "Max. prospective line I_{sc} " indicated.

(3) Peak current on power-up, for the max. voltage (240 V + 10%).

(4) For 60 seconds.

(5) These references can be ordered without terminal board in order to integrate an optionnal communication board. Add a B at the end of the reference. For example, ATV312HU11M2 becomes ATV312HU11M2B.

Drive ratings (continued)

Three phase supply voltage: 380...500 V 50/60 Hz

For three phase output 380/500 V motors

Motor		Line supply (input)					Drive (output)		Reference	Size
Power indicated on plate (1)		Max. current line (2)		Apparent power	Max. inrush current (3)	Power dissipated at nominal current	Nominal current (1)	Max. transient current (1) (4)		
		at 380 V	at 500 V							
kW	HP	A	A	kVA	A	W	A	A		
0.37	0.5	2.2	1.7	1.5	10	32	1.5	2.3	ATV312H037N4(5)	6
0.55	0.75	2.8	2.2	1.8	10	37	1.9	2.9	ATV312H055N4(5)	6
0.75	1	3.6	2.7	2.4	10	41	2.3	3.5	ATV312H075N4(5)	6
1.1	1.5	4.9	3.7	3.2	10	48	3.0	4.5	ATV312HU11N4(5)	6
1.5	2	6.4	4.8	4.2	10	61	4.1	6.2	ATV312HU15N4(5)	6
2.2	3	8.9	6.7	5.9	10	79	5.5	8.3	ATV312HU22N4(5)	7
3	3	10.9	8.3	7.1	10	125	7.1	10.7	ATV312HU30N4(5)	7
4	5	13.9	10.6	9.2	10	150	9.5	14.3	ATV312HU40N4(5)	7
5.5	7.5	21.9	16.5	15.0	30	232	14.3	21.5	ATV312HU55N4(5)	8
7.5	10	27.7	21.0	18.0	30	269	17.0	25.5	ATV312HU75N4(5)	8
11	15	37.2	28.4	25.0	97	397	27.7	41.6	ATV312HD11N4(5)	9
15	20	48.2	36.8	32.0	97	492	33.0	49.5	ATV312HD15N4(5)	9

Three phase supply voltage: 525...600 V 50/60 Hz

For three phase output 525/600 V motors

Motor		Line supply (input)					Drive (output)		Reference	Size
Power indicated on plate (1)		Max. current line (2)		Apparent power	Max. inrush current (3)	Power dissipated at nominal current	Nominal current (1)	Max. transient current (1) (4)		
		at 525 V	at 600 V							
kW	HP	A	A	kVA	A	W	A	A		
0.75	1	2.8	2.4	2.5	12	36	1.7	2.6	ATV312H075S6(6)	6
1.5	2	4.8	4.2	4.4	12	48	2.7	4.1	ATV312HU15S6(6)	6
2.2	3	6.4	5.6	5.8	12	62	3.9	5.9	ATV312HU22S6(6)	7
4	5	10.7	9.3	9.7	12	94	6.1	9.2	ATV312HU40S6(6)	7
5.5	7.5	16.2	14.1	15.0	36	133	9.0	13.5	ATV312HU55S6(6)	8
7.5	10	21.3	18.5	19.0	36	165	11.0	16.5	ATV312HU75S6(6)	8
11	15	27.8	24.4	25.0	117	257	17.0	25.5	ATV312HD11S6(6)	9
15	20	36.4	31.8	33.0	117	335	22.0	33.0	ATV312HD15S6(6)	9

(1) These power ratings and currents are for a maximum ambient temperature of 50°C and a switching frequency of 4 kHz in continuous operation. The switching frequency is adjustable from 2 to 16 kHz.

Above 4 kHz, the drive will reduce the switching frequency in the event of excessive temperature rise. The temperature rise is controlled by a sensor in the power module. Nonetheless, the nominal drive current should be derated if operation above 4 kHz needs to be continuous.

Derating curves are shown on page 15 as a function of switching frequency, ambient temperature and mounting conditions.

(2) Current on a line supply with the "Max. prospective line I_{sc} " indicated.

(3) Peak current on power-up, for the max. voltage (500 V + 10%, 600 V + 10%).

(4) For 60 seconds.

(5) These references can be ordered without terminal board in order to integrate an optional communication board. Add a B at the end of the reference. For example, ATV312H037N4 becomes ATV312H037N4B.

(6) The use of an AC choke, which must be ordered separately (please refer to the catalog), is mandatory on these drives