

# Drive ratings

## Single-phase supply voltage: 100...120 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)		Maximum line current		Apparent power	Power dissipated at nominal current (1)	Nominal current In	Max. transient current for		(2)	(3)
kW	HP	at 100 V	at 120 V				60 s	2 s		
0.18	0.25	6	5	1	18	1.4	2.1	2.3	ATV12H018F1	1C1
0.37	0.5	11.4	9.3	1.9	29	2.4	3.6	4	ATV12H037F1	1C1
0.75	1	18.9	15.7	3.3	48	4.2	6.3	6.9	ATV12H075F1	2C1

## 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)		Maximum line current		Apparent power	Power dissipated at nominal current (1)	Nominal current In	Max. transient current for		(2)	(3)
kW	HP	at 200 V	at 240 V				60 s	2 s		
0.18	0.25	3.4	2.8	1.2	18	1.4	2.1	2.3	ATV12H018M2	1C2
0.37	0.5	5.9	4.9	2	27	2.4	3.6	4	ATV12H037M2	1C2
0.55	0.75	8	6.7	2.8	34	3.5	5.3	5.8	ATV12H055M2	1C2
0.75	1	10.2	8.5	3.5	44	4.2	6.3	6.9	ATV12H075M2	1C2
1.5	2	17.8	14.9	6.2	72	7.5	11.2	12.4	ATV12HU15M2	2C2
2.2	3	24	20.2	8.4	93	10	15	16.5	ATV12HU22M2	2C2

## 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)		Maximum line current		Apparent power	Power dissipated at nominal current (1)	Nominal current In	Max. transient current for		(2)	(3)
kW	HP	at 200 V	at 240 V				60 s	2 s		
0.18	0.25	2	1.7	0.7	16	1.4	2.1	2.3	ATV12H018M3	1C3
0.37	0.5	3.6	3	1.2	24	2.4	3.6	4	ATV12H037M3	1C3
0.75	1	6.3	5.3	2.2	41	4.2	6.3	6.9	ATV12H075M3	1C3
1.5	2	11.1	9.3	3.9	73	7.5	11.2	12.4	ATV12HU15M3	2F3
2.2	3	14.9	12.5	5.2	85	10	15	16.5	ATV12HU22M3	2F3
3	4	19	15.9	6.6	94	12.2	18.3	20.1	ATV12HU30M3	3F3
4	5.5	23.8	19.9	8.3	128	16.7	25	27.6	ATV12HU40M3	3F3

(1) These power ratings are for 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 if an excessive temperature rise occurs. The temperature rise is detected by a probe in the power module. Nonetheless, 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
- 30% derating for 16 kHz

(2) **Reference description**,

example: ATV12HU15M3

**ATV12:** Altivar 12;

**H:** product on heatsink;

**U15:** drive power rating,

see **nCU** parameter page [40](#);

**M3:** drive voltage rating,

see **UCAL** parameter page [40](#).

(3) **Size description**

**[2]**  
possible values 1 physical size 1  
2 physical size 2  
3 physical size 3

**[E]**  
possible values F Flat  
C Compact

**[3]**  
possible values 1 100 V 1 phase  
2 200 V 1 phase  
3 200 V 3 phase