

# Variable speed drives

## Altivar 12

### Drives with heatsink



ATV12H018M2



ATV12H075M2



ATV12HU40M3



ATV12HU15M2TQ (8)

Drives with heatsink										
Motor	Line supply			Altivar 12						
Power indicated on rating plate (1)	Max. line current (2)		Apparent power	Max. prospective line lsc	Maximum continuous output current (In) (1)	Maximum transient current for 60 s	Dissipated power at maximum output current (In) (1)	Reference	Weight (3)	
	at U1	at U2	at U2							at U2
kW	HP	A	A	kVA	kA	A	A	W	kg	
<b>Single-phase supply voltage: 100...120 V 50/60 Hz (4)</b>										
0.18	0.25	6	5	0.6	1	1.4	2.1	18	ATV12H018F1 (5)	0.700
0.37	0.5	11.4	9.3	1.1	1	2.4	3.6	29	ATV12H037F1	0.800
0.75	1	18.9	15.7	1.9	1	4.2	6.3	48	ATV12H075F1	1.300
<b>Single-phase supply voltage: 200...240 V 50/60 Hz (4) (6)</b>										
0.18	0.25	3.4	2.8	0.7	1	1.4	2.1	18	ATV12H018M2 (5) (7) (10)	0.700
0.37	0.55	5.9	4.9	1.2	1	2.4	3.6	27	ATV12H037M2 (7) (10)	0.700
0.55	0.75	8	6.7	1.6	1	3.5	5.3	34	ATV12H055M2 (7) (10)	0.800
0.75	1	10.2	8.5	2	1	4.2	6.3	44	ATV12H075M2 (7) (10)	0.800
1.5	2	17.8	14.9	3.6	1	7.5	11.2	72	ATV12HU15M2 (8) (9)	1.400
2.2	3	24	20.2	4.8	1	10	15	93	ATV12HU22M2 (8) (9)	1.400
<b>Three-phase supply voltage: 200...240 V 50/60 Hz (4)</b>										
0.18	0.25	2	1.7	0.7	5	1.4	2.1	16	ATV12H018M3 (5)	0.700
0.37	0.55	3.6	3	1.2	5	2.4	3.6	24	ATV12H037M3	0.800
0.75	1	6.3	5.3	2.2	5	4.2	6.3	41	ATV12H075M3	0.800
1.5	2	11.1	9.3	3.9	5	7.5	11.2	73	ATV12HU15M3	1.200
2.2	3	14.9	12.5	5	5	10	15	85	ATV12HU22M3	1.200
3	–	19	15.9	6.6	5	12.2	18.3	94	ATV12HU30M3	2.000
4	5	23.8	19.9	8.3	5	16.7	25	128	ATV12HU40M3	2.000
<b>Dimensions (overall)</b>										
<b>Drives with heatsinks</b>					<b>W x H x D</b>					
					<b>EMC plate fixed</b>			<b>EMC plate not fixed</b>		
					<b>mm</b>			<b>mm</b>		
ATV12H018F1, H018M2, H018M3					72 x 189.5 x 102.2			72 x 143 x 102.2		
ATV12H037F1, H037M2, H037M3					72 x 189.5 x 121.2			72 x 143 x 121.2		
ATV12H055M2, H075M2, H075M3					72 x 189.5 x 131.2			72 x 143 x 131.2		
ATV12H075F1, HU15M2, HU22M2					105 x 188.2 x 156.2			105 x 142 x 156.2		
ATV12HU15M3, HU22M3					105 x 189.3 x 131.2			105 x 143 x 131.2		
ATV12HU30M3, HU40M3					140 x 230.6 x 141.2			140 x 184 x 141.2		

(1) These values are given for a nominal switching frequency of 4 kHz, for use in continuous operation. If operation above 4 kHz needs to be continuous, the nominal drive current should be derated by 10% for 8 kHz, 20% for 12 kHz and 30% for 16 kHz.  
The switching frequency can be set between 2 and 16 kHz for all ratings.  
Above 4 kHz, the drive will reduce the switching frequency automatically in the event of an excessive temperature rise. See the derating curves in the User Manual, available on our website at "www.schneider-electric.com".

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

(3) Weight of product without packaging.

(4) Min. (U1) and max. (U2) nominal supply voltage: 100 (U1)...120 V (U2), 200 (U1)...240 V (U2).

(5) Due to the poor heat dissipation, the ATV12H018M3 drive is only supplied as a base plate version.

(6) This drive is delivered with a disconnectable category C1 EMC filter. This drive complies with the IEC/EN 61800-3 standard, Environment 1 (public network), category C1, at 2, 4, 8, 12 and 16 kHz for a shielded motor cable length inferior or equal to 5 m.

(7) Complies with the IEC/EN 61800-3 standard, Environment 1 (public network), category C2, from 2 to 12 kHz for a shielded motor cable length inferior or equal to 5 m; and at 2, 4, 8, 12 and 16 kHz for a shielded motor cable length inferior or equal to 10 m.

(8) Complies with the IEC/EN 61800-3 standard, Environment 1 (public network), category C2, from 4 to 16 kHz for a shielded motor cable length inferior or equal to 5 m; and at 2, 4 and 16 kHz for a shielded motor cable length inferior or equal to 10 m.

(9) Available in lots of 7: add **TQ** at the end of the reference. ATV12HU22M2 becomes **ATV12HU22M2TQ**.

(10) Available in lots of 14: add **TQ** at the end of the reference. For example, ATV12H018M2 becomes **ATV12H018M2TQ**.

PF080623D



ATV12PU22M3

Drives on a base plate											
Motor Power indicated on rating plate (1)	Line supply				Altivar 12					Reference (3)	Weight (3)
	Max. line current (2)	Apparent power		Max. prospective line Isc	Maximum continuous output current (In) (1)	Maximum transient current for 60 s	Dissipated power at maximum output current (In) (1)	Reference			
		at U1	at U2					at U2	at U2		
kW	HP	A	A	kVA	kA	A	A	W	kg		
<b>Single-phase supply voltage: 100...120 V 50/60 Hz (4)</b>											
0.18	0.25	6	5	0.6	1	1.4	2.1	18	ATV12H018F1 (5)	0.700	
–	–	11.4	9.3	1.1	1	2.4	3.6	29	ATV12P037F1 (6)	0.700	
<b>Single-phase supply voltage: 200...240 V 50/60 Hz (4) (7)</b>											
0.18	0.25	3.4	2.8	0.7	1	1.4	2.1	18	ATV12H018M2 (5) (8)	0.700	
–	–	5.9	4.9	1.2	1	2.4	3.6	27	ATV12P037M2 (6)	0.700	
–	–	8	6.7	1.6	1	3.5	5.3	34	ATV12P055M2 (6)	0.700	
–	–	10.2	8.5	2	1	4.2	6.3	44	ATV12P075M2 (6)	0.700	
<b>Three-phase supply voltage: 200...240 V 50/60 Hz (4)</b>											
0.18	0.25	2	1.7	0.7	5	1.4	2.1	16	ATV12H018M3 (5)	0.700	
–	–	3.6	3	1.2	5	2.4	3.6	24	ATV12P037M3 (6)	0.700	
–	–	6.3	5.3	2.2	5	4.2	6.3	41	ATV12P075M3 (6)	0.700	
–	–	11.1	9.3	3.9	5	7.5	11.2	73	ATV12PU15M3 (6)	1.000	
–	–	14.9	12.5	5	5	10	15	85	ATV12PU22M3 (6)	1.000	
–	–	19	15.9	6.6	5	12.2	18.3	94	ATV12PU30M3 (6)	1.600	
–	–	23.8	19.9	8.3	5	16.7	25	128	ATV12PU40M3 (6)	1.600	
<b>Dimensions (overall)</b>											
<b>Drives on a base plate</b>						<b>W x H x D</b>					
						<b>EMC plate fixed</b>			<b>EMC plate not fixed</b>		
						<b>mm</b>			<b>mm</b>		
ATV12P037F1, ATV12P037M2...P075M2						72 x 189.5 x 102.2			72 x 143 x 102.2		
ATV12P037M3...P075M3											
ATV12PU15M3, PU22M3						105 x 189.3 x 98.2			105 x 143 x 98.2		
ATV12PU30M3, PU40M3						140 x 230.6 x 100.2			140 x 184 x 100.2		

(1) These values are given for a nominal switching frequency of 4 kHz, for use in continuous operation. If operation above 4 kHz needs to be continuous, the nominal drive current should be derated by 10% for 8 kHz, 20% for 12 kHz and 30% for 16 kHz.

The switching frequency can be set between 2 and 16 kHz for all ratings.

Above 4 kHz, the drive will reduce the switching frequency automatically in the event of an excessive temperature rise.

See the derating curves in the User Manual, available on our website at «[www.schneider-electric.com](http://www.schneider-electric.com)».

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

(3) Weight of product without packaging.

(4) Min. (U1) and max. (U2) nominal supply voltage: 100 (U1)...120 V (U2). 200 (U1)...240 V (U2).

(5) Due to the poor heat dissipation the ATV12H018M2 drive is only supplied as a base plate version.

(6) To size the ATV12P drive correctly see the specific manual for the Altivar 12 base plate version available on our website at «[www.schneider-electric.com](http://www.schneider-electric.com)».

(7) This drive is delivered with a disconnectable category C1 EMC filter. This drive complies with the IEC/EN 61800-3 standard, Environment 1 (public network), category C1, at 2, 4, 8, 12 and 16 kHz for a shielded motor cable length inferior or equal to 5 m; and category C2, from 2 to 12 kHz for a shielded motor cable length inferior or equal to 5 m and at 2, 4 and 16 kHz for a shielded motor cable length inferior or equal to 10 m.

(8) Available in lots of 14: add **TQ** at the end of the reference. For example. ATV12H018M2 becomes **ATV12H018M2TQ**.