

Variable speed drives

Altivar Machine ATV320

Drives with compact control block



ATV320U02M2C...U07M2C

ATV320U11M2C...U22M2C
ATV320U04N4C...U15N4CATV320U22N4C...
ATV320U40N4C

ATV320U55M3C



ATV320U07S6C



ATV320U15S6C

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Motor		Line supply				Altivar Machine ATV320				
Power indicated on rating plate (1)		Max. line current (2) (3)		Apparent power	Max. prospective line Isc (4)	Max. continuous output current (In) (1)	Max. transient current for 60s	Power dissipated at maximum output current (In) (1)	Reference (1)	Weight
		at U1	at U2							
kW	HP	A	A	kVA	kA	A	A			kg/lb
Single-phase supply voltage: 200...240 V 50/60 Hz, with integrated EMC filter (3) (5) (6)										
0.18	0.25	3.4	2.8	0.7	1	1.5	2.3	21.7	ATV320U02M2C	0.800/1.278
0.37	0.5	5.9	4.9	1.2	1	3.3	5	32.2	ATV320U04M2C	1.000/2.204
0.55	0.75	7.9	6.6	1.6	1	3.7	5.6	41.7	ATV320U06M2C	1.100/2.425
0.75	1	10	8.4	2	1	4.8	7.2	48.3	ATV320U07M2C	
1.1	1.5	13.8	11.6	2.8	1	6.9	10.4	65.6	ATV320U11M2C	1.600/3.527
1.5	2	17.8	14.9	3.6	1	8	12	82.4	ATV320U15M2C	
2.2	3	24	20.2	4.8	1	11	16.5	109.6	ATV320U22M2C	
Three-phase supply voltage: 200...240 V 50/60 Hz, without integrated EMC filter (3)										
0.18	0.25	2	1.7	0.7	5	1.5	2.3	21	ATV320U02M3C	0.800/1.278
0.37	0.5	3.6	3	1.2	5	3.3	5	34	ATV320U04M3C	0.900/1.984
0.55	0.75	4.9	4.2	1.7	5	3.7	5.6	40	ATV320U06M3C	1.000/2.204
0.75	1	6.3	5.3	2.2	5	4.8	7.2	49	ATV320U07M3C	
1.1	1.5	8.6	7.2	3	5	6.9	10.4	66	ATV320U11M3C	1.400/3.086
1.5	2	11.1	9.3	3.9	5	8	12	69	ATV320U15M3C	
2.2	3	14.9	12.5	5.2	5	11	16.5	92	ATV320U22M3C	
3	4	19	15.9	6.6	5	13.7	20.6	109	ATV320U30M3C	2.200/4.850
4	5	23.8	19.9	8.3	5	17.5	26.3	141	ATV320U40M3C	
5.5	7.5	35.4	29.8	12.4	22	27.5	41.3	261	ATV320U55M3C	3.500/7.716
7.5	10	45.3	38.2	15.9	22	33	49.5	324	ATV320U75M3C	3.600/7.937
11	15	60.9	51.4	21.4	22	54	81	528	ATV320D11M3C	6.800/14.991
15	20	79.7	67.1	27.9	22	66	99	545	ATV320D15M3C	6.900/15.212
Three-phase supply voltage: 380...500 V 50/60 Hz, with integrated EMC filter (3) (5) (6)										
0.37	0.5	2.1	1.6	1.4	5	1.5	2.3	28	ATV320U04N4C	1.200/2.646
0.55	0.75	2.8	2.2	1.9	5	1.9	2.9	33	ATV320U06N4C	
0.75	1	3.6	2.8	2.4	5	2.3	3.5	38	ATV320U07N4C	
1.1	1.5	5	3.8	3.3	5	3	4.5	47	ATV320U11N4C	1.300/2.866
1.5	2	6.4	4.9	4.2	5	4.1	6.2	61	ATV320U15N4C	
2.2	3	8.7	6.6	5.7	5	5.5	8.3	76	ATV320U22N4C	2.100/4.630
3	4	11.1	8.4	7.3	5	7.1	10.7	94	ATV320U30N4C	
4	5	13.7	10.6	9.2	5	9.5	14.3	112	ATV320U40N4C	2.200/4.850
Three-phase supply voltage: 525...600 V 50/60 Hz, without integrated EMC filter (3) (7)										
0.75	1	1.5	1.4	1.5	5	1.7	2.6	31	ATV320U07S6C	1.300/2.866
1.5	2	2.6	2.4	2.5	5	2.7	4.1	40	ATV320U15S6C	
2.2	3	3.7	3.2	3.4	5	3.9	5.9	50	ATV320U22S6C	2.000/4.409
4	5	6.5	5.8	6.0	5	6.1	9.2	72	ATV320U40S6C	2.500/5.511
5.5	7.5	8.4	7.5	7.8	22	9.0	13.5	114	ATV320U55S6C	3.500/7.716
7.5	10	11.6	10.5	10.9	22	11.0	16.5	136	ATV320U75S6C	
11	15	15.8	14.1	14.7	22	17.0	25.5	197	ATV320D11S6C	6.500/14.330
15	20	22.1	20.1	20.9	22	22.0	33.0	228	ATV320D15S6C	

(1) These values are given for a nominal switching frequency of 4 kHz, for use in continuous operation. The switching frequency is adjustable from 2 to 16 kHz. Above 4 kHz, derate the nominal drive current. The nominal motor current should not exceed this value (see derating curves).

(2) Typical value for a 4-pole motor and a maximum switching frequency of 4 kHz, with no line choke for max. prospective line Isc (4).

(3) Nominal supply voltage, min. U1, max. U2: 200 (U1)...240 V (U2), 380 (U1)...500 V (U2).

(4) If line Isc is greater than the values in the table, add line chokes.

(5) Drives supplied with category C2 integrated EMC filter. This filter can be disconnected.

(6) Drives are supplied with an EMC plate, for assembly by the customer.

(7) A line choke is mandatory with ATV320●●●S6C drives. To be ordered separately, see page 28.