

Variable speed drives for asynchronous motors

Altivar 38

Variable torque applications (110% T_n)



ATV 38HU18N4



ATV 38HD28N4



ATV 38HC19N4X

3-phase supply voltage: 380...460 V 50/60 Hz

Motor (1)	Line supply (2) at 400 V	Altivar 38			Power dissipated at nominal load (4) W	Reference		Weight kg
		Nominal drive current A	Max. transient current (3) A			With integral EMC filters	No EMC filters	
0.75	3.1	2.1	2.3	55	ATV 38HU18N4	–	3.800	
1.5	5.4	3.7	4.1	65	ATV 38HU29N4	–	3.800	
2.2	7.3	5.4	6	105	ATV 38HU41N4	–	3.800	
3	10	7.1	7.8	145	ATV 38HU54N4	–	6.900	
4	12.3	9.5	10.5	180	ATV 38HU72N4	–	6.900	
5.5	16.3	11.8	13	220	ATV 38HU90N4	–	6.900	
7.5	24.3	16	17.6	230	ATV 38HD12N4	–	13.000	
11	33.5	22	24.2	340	ATV 38HD16N4	–	13.000	
15	43.2	30	33	410	ATV 38HD23N4	–	15.000	
18,5	42	37	41	670	ATV 38HD25N4	–	34.000	
					–	ATV 38HD25N4X	34.000	
22	49	44	49	750	ATV 38HD28N4	–	34.000	
					–	ATV 38HD28N4X	34.000	
30	65	60	66	925	ATV 38HD33N4	–	34.000	
					–	ATV 38HD33N4X	34.000	
37	79	72	80	1040	ATV 38HD46N4	–	34.000	
					–	ATV 38HD46N4X	34.000	
45	95	85	94	1045	ATV 38HD54N4	–	57.000	
					–	ATV 38HD54N4X	57.000	
55	118	105	116	1265	ATV 38HD64N4	–	57.000	
					–	ATV 38HD64N4X	57.000	
75	158	138	152	1730	ATV 38HD79N4	–	57.000	
					–	ATV 38HD79N4X	57.000	
90	156 (5)	173	190	2250	–	ATV 38HC10N4X	49.000	
110	191 (5)	211	232	2750	–	ATV 38HC13N4X	75.000	
132	229 (5)	253	278	3300	–	ATV 38HC15N4X	77.000	
160	279 (5)	300	330	4000	–	ATV 38HC19N4X	77.000	
200	347 (5)	370	407	5000	–	ATV 38HC23N4X	159.000	
220	384 (5)	407	448	5500	–	ATV 38HC25N4X	166.000	
250	433 (5)	450	495	6250	–	ATV 38HC28N4X	168.000	
280	485 (5)	503	553	7000	–	ATV 38HC31N4X	168.000	
315	536 (5)	564	620	7875	–	ATV 38HC33N4X	168.000	

(1) Value indicated on the motor rating plate. These power levels are for the maximum switching frequency permitted by the drive (2 or 4 kHz depending on the rating) in continuous operation without derating. For switching frequencies above this level, the drive must be in intermittent operation or it must be set one rating lower (see special uses on the previous pages).

(2) The prospective short-circuit current at 400 V is 5 kA for ATV 38HU18N4 to HU90N4 drive ratings and 22 kA for ATV 38HD25N4p to HC33N4X drive ratings.

(3) For 60 seconds.

(4) These power levels are given for the maximum switching frequency permitted by the drive in continuous operation (2 or 4 Hz, depending on the rating).

(5) Line chokes must be used if the prospective short-circuit line current is greater than 22 kA. The current values given include the addition of a line choke.