

Variable speed drives

Altivar Process ATV600

Three-phase supply voltage: 380...480 V 50/60 Hz

Wall-mounting drives

2



ATV650D15N4E



ATV650D30N4E



ATV650D55N4E

380...480 V (-15...10%) IP55 drives with Vario disconnect switch and category C2 or C3 integrated EMC filter ⁽¹⁾

Motor			Line supply				Altivar Process					
Power indicated on rating plate (2)			Line current (3)		Apparent power	Maximum prospective line Isc	Maximum continuous current (2)	Max. transient current for 60 s	Reference (6)	Weight		
											380 V	480 V
			ND:	Normal duty (4)								
HD:	Heavy duty (5)											
	kW	HP	A	A	kVA	kA	A	A		kg/ lb		
THDi ≤ 44% at 100% load in Normal duty (4)												
ND	0.75	1	1.5	1.3	1.1	50	2.2	2.4	ATV650U07N4E	10.500/ 23.149		
HD	0.37	0.5	0.9	0.8	0.7	50	1.5	2.3				
ND	1.5	2	3	2.6	2.2	50	4	4.4	ATV650U15N4E	10.500/ 23.149		
HD	0.75	1	1.7	1.5	1.2	50	2.2	3.3				
ND	2.2	3	4.3	3.8	3.2	50	5.6	6.2	ATV650U22N4E	10.500/ 23.149		
HD	1.5	2	3.1	2.9	2.4	50	4	6				
ND	3	—	5.8	5.1	4.2	50	7.2	7.9	ATV650U30N4E	10.600/ 23.369		
HD	2.2	3	4.5	4	3.3	50	5.6	8.4				
ND	4	5	7.6	6.7	5.6	50	9.3	10.2	ATV650U40N4E	10.600/ 23.369		
HD	3	—	6	5.4	4.5	50	7.2	10.8				
ND	5.5	7.5	10.4	9.1	7.6	50	12.7	14	ATV650U55N4E	10.700/ 23.589		
HD	4	5	8	7.2	6.0	50	9.3	14				
ND	7.5	10	13.8	11.9	9.9	50	16.5	18.2	ATV650U75N4E	13.700/ 30.203		
HD	5.5	7.5	10.5	9.2	7.6	50	12.7	19.1				
ND	11	15	19.8	17	14.1	50	23.5	25.9	ATV650D11N4E	13.700/ 30.203		
HD	7.5	10	14.1	12.5	10.4	50	16.5	24.8				
ND	15	20	27	23.3	19.4	50	31.7	34.9	ATV650D15N4E	19.600/ 43.211		
HD	11	15	20.6	18.1	15	50	23.5	35.3				
ND	18.5	25	33.4	28.9	24	50	39.2	43.1	ATV650D18N4E	20.600/ 45.415		
HD	15	20	27.7	24.4	20.3	50	31.7	47.6				
ND	22	30	39.6	34.4	28.6	50	46.3	50.9	ATV650D22N4E	20.600/ 45.415		
HD	18.5	25	34.1	29.9	24.9	50	39.2	58.8				
ND	30	40	53.3	45.9	38.2	50	61.5	67.7	ATV650D30N4E	50.000/ 110.231		
HD	22	30	40.5	35.8	29.8	50	46.3	69.5				
ND	37	50	66.2	57.3	47.6	50	74.5	82	ATV650D37N4E	50.000/ 110.231		
HD	30	40	54.8	48.3	40.2	50	61.5	92.3				
ND	45	60	79.8	69.1	57.4	50	88	96.8	ATV650D45N4E	50.000/ 110.231		
HD	37	50	67.1	59	49.1	50	74.5	111.8				
ND	55	75	97.2	84.2	70	50	106	116.6	ATV650D55N4E	87.000/ 191.802		
HD	45	60	81.4	71.8	59.7	50	88	132				
ND	75	100	131.3	112.7	93.7	50	145	159.5	ATV650D75N4E	87.000/ 191.802		
HD	55	75	98.9	86.9	72.2	50	106	159				
ND	90	125	156.2	135.8	112.9	50	173	190.3	ATV650D90N4E	87.000/ 191.802		
HD	75	100	134.3	118.1	98.2	50	145	217.5				

(1) Category C2 EMC filter for **ATV650U07N4E...D45N4E**. Category C3 EMC filter above **ATV650D45N4E**.(2) These values are given for a nominal switching frequency of 4 kHz adjustable from 2...12 kHz up to **ATV650D45N4E** or 2.5 kHz adjustable from 2...8 kHz for **ATV650D55N4E...D90N4E**, for use in continuous operation.Above 2.5 or 4 kHz (depending on the rating), the drive will automatically reduce the switching frequency in the event of an excessive temperature rise. For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the [Installation Manual](#)).

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

(4) Values given for applications requiring a slight overload (up to 110%).

(5) Values given for applications requiring a significant overload (up to 150%).

(6) Supplied with cable gland.

Note: Consult the summary tables of possible drive, option, and accessory combinations (see [page 2/20](#)).