

Variable speed drives

Altivar Process ATV600

Three-phase supply voltage: 380...440 V 50/60 Hz

Floor-standing drives without braking unit



ATV650C31N4F

380...440 V (-15...10%) IP54 drives with switch and category 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	Weight
		380 V	400 V	380 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 110	—	207	195	135	50		211	232	ATV650C11N4F	310.000/683.433
HD 90	—	174	164	113	50		173	259		
ND 132	—	250	232	161	50		250	275	ATV650C13N4F	310.000/683.433
HD 110	—	207	197	136	50		211	316		
ND 160	—	291	277	192	50		302	332	ATV650C16N4F	310.000/683.433
HD 132	—	244	232	161	50		250	375		
ND 200	—	369	349	242	50		370	407	ATV650C20N4F	420.000/925.941
HD 160	—	302	286	198	50		302	453		
ND 250	—	453	432	299	50		477	524	ATV650C25N4F	420.000/925.941
HD 200	—	369	353	244	50		370	555		
ND 315	—	566	538	373	50		590	649	ATV650C31N4F	420.000/925.941
HD 250	—	453	432	299	50		477	715		

(1) Integrated motor chokes allowing a shielded motor cable length up to 300 m/984 ft in category C3 and an unshielded cable length up to 450 m/1,476 ft in category C4.

(2) These values are given for a nominal switching frequency of 2.5 kHz for use in continuous operation. The switching frequency is adjustable from 2...8 kHz for all ratings.

Above 2.5 kHz, 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%).

Note: Consult the summary tables of possible drive, option, and accessory combinations (see [page 2/18](#)).