

Variable speed drives

Altivar Process ATV600

Low Harmonic Drive Systems

Three-phase supply voltage: 380...415 V 50/60 Hz



ATV680C16Q4X1

380...415 V IP23 Low Harmonic Drive Systems

Motor	Line supply			Altivar Process			Reference (1)	Weight
	Line current (2)	Apparent power	Max. prospective line Isc	Max. continuous current (1)	Max. transient current for 60 s			
	400 V	400 V						
ND: Normal duty (3)								
HD: Heavy duty (4)								
kW	A	kVA	kA	A	A			kg/ lb
THDi ≤ 5% at 100% load								
ND 110	175	121	50	211	232	ATV680C11Q4X1		400/ 881
HD 90	144	100	50	173	260			
ND 132	208	144	50	250	275	ATV680C13Q4X1		400/ 881
HD 110	174	121	50	211	317			
ND 160	252	174	50	302	332	ATV680C16Q4X1		400/ 881
HD 132	208	144	50	250	375			
ND 200	313	217	50	370	407	ATV680C20Q4X1		700/ 1,543
HD 160	252	174	50	302	453			
ND 250	389	270	50	477	525	ATV680C25Q4X1		700/ 1,543
HD 200	313	217	50	370	555			
ND 315	491	340	50	590	649	ATV680C31Q4X1		700/ 1,543
HD 250	389	270	50	477	716			
ND 355	553	383	50	660	726	ATV680C35Q4X1		1,150/ 2,535
HD 280	436	302	50	520	780			
ND 400	620	429	50	730	803	ATV680C40Q4X1		1,150/ 2,535
HD 315	491	340	50	590	885			
ND 450	697	483	50	830	913	ATV680C45Q4X1		1,150/ 2,535
HD 355	553	383	50	660	990			
ND 500	775	537	50	900	990	ATV680C50Q4X1		1,150/ 2,535
HD 400	620	429	50	730	1095			
ND 560	868	601	50	1020	1122	ATV680C56Q4X1		1,450/ 3,196
HD 450	697	483	50	830	1245			
ND 630	971	673	50	1140	1254	ATV680C63Q4X1		1,450/ 3,196
HD 500	775	537	50	900	1350			
ND 710	1094	758	50	1260	1386	ATV680C71Q4X1		1,950/ 4,299
HD 560	868	601	50	1020	1530			
ND 800	1227	850	50	1420	1562	ATV680C80Q4X1		1,950/ 4,299
HD 630	971	673	50	1140	1710			

(1) 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 [Handbook](#)).

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

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

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

Note: Consult the CTO options tables of possible combinations with the drives (see [page 4/16](#)).