

	PART NUMBER	NEC MOTOR HP			RATED CURRENT	WATTS LOSS	DIMENSIONS (inches)			WEIGHT	PART NUMBER HEAVY DUTY
		480V	600V	240V			HEIGHT	WIDTH	DEPTH		
V1000 OPEN FILTER	V1K2A00	0.75	1	-	2	75	9.00	5.50	7.25	8	V1K2A00EX
	V1K3A00	1 - 1.5	2	0.5	3	75	9.00	5.50	7.25	8	V1K3A00EX
	V1K4A00	2	3	0.75	4	75	9.00	5.50	7.25	8	V1K4A00EX
	V1K6A00	3	-	1 - 1.5	6	80	9.00	5.50	7.25	8	V1K6A00EX
	V1K8A00	5	5	2	8	90	9.00	5.50	8.25	8	V1K8A00EX
	V1K12A00	7.5	10	3	12	95	9.00	5.50	8.25	8	V1K12A00EX
	V1K16A00	10	-	5	16	95	9.00	5.50	8.25	12	V1K16A00EX
	V1K18A00	10	15	-	18	110	9.00	5.50	8.25	12	V1K18A00EX
	V1K21A00	15	-	-	21	110	9.00	5.50	8.25	12	V1K21A00EX
	V1K25A00	15	20	7.5	25	110	9.00	5.50	8.25	12	V1K25A00EX
	V1K27A00	20	25	-	27	110	9.00	5.50	8.25	14	V1K27A00EX
	V1K35A00	25	30	10	35	130	12.00	8.00	9.00	17	V1K35A00EX
	V1K45A00	30	40	15	45	135	12.00	8.00	9.00	17	V1K45A00EX
	V1K55A00	40	50	20	55	145	12.00	8.00	9.00	23	V1K55A00EX
	V1K80A00	50 - 60	75	25 - 30	80	255	12.00	8.00	9.00	23	V1K80A00EX
	V1K110A00	75	100	40	110	245	12.00	8.00	10.25	40	V1K110A00EX
	V1K130A00	100	125	50	130	270	8.50	11.75	9.50	55	V1K130A00EX
	V1K160A00	125	150	60	160	260	8.50	11.75	10.50	60	V1K160A00EX
	V1K200A00	150	200	75	200	265	8.50	11.75	9.25	60	V1K200A00EX
	V1K250A00	200	250	100	250	290	8.50	11.75	9.25	65	V1K250A00EX
V1K305A00	250	300	-	300	325	8.75	11.75	12.25	80	V1K302A00EX	
V1K362A00	300	350	150	360	300	8.75	11.75	12.00	80	V1K361A00EX	
V1K420A00	350	450	-	420	450	10.00	11.75	13.75	95	V1K420A00EX	
V1K480A00	400	500	200	480	475	10.00	11.75	13.75	100	V1K480A00EX	
V1K600A00	500	600	-	600	515	12.75	15.00	13.75	130	V1K600A00EX	
V1K750A00	600	700	-	750	770	12.75	15.00	14.50	135	V1K750A00EX	

The watts loss information provided within the selection charts are based on the effects of a sine-triangle modulated waveform at full load current, 60Hz fundamental, with a carrier frequency setting of 4 kHz and a lead length of 500 (wire) feet using THHN cable. It is important to note that as system specifics vary, so shall the watts loss. Typical testing results have indicated that the V1000 has an efficiency rating of 98% or better.

	PART NUMBER (ENCLOSED)	NEC MOTOR HP			RATED CURRENT	WATTS LOSS	DIMENSIONS (inches)			WEIGHT	PART NUMBER HEAVY DUTY
		480V	600V	240V			HEIGHT	WIDTH	DEPTH		
V1000 ENCLOSED FILTER	V1K2A01	0.75	1	-	2	75	9.00	5.50	10.00	11	V1K2A01EX
	V1K3A01	1 - 1.5	2	0.5	3	75	9.00	5.50	10.00	11	V1K3A01EX
	V1K4A01	2	3	0.75	4	75	9.00	5.50	10.00	11	V1K4A01EX
	V1K6A01	3	-	1 - 1.5	6	80	9.00	5.50	10.00	11	V1K6A01EX
	V1K8A01	5	5	2	8	90	9.00	5.50	10.00	11	V1K8A01EX
	V1K12A01	7.5	10	3	12	95	9.00	5.50	10.00	11	V1K12A01EX
	V1K16A01	10	-	5	16	95	9.00	5.50	10.00	15	V1K16A01EX
	V1K18A01	10	15	-	18	110	9.00	5.50	10.00	15	V1K18A01EX
	V1K21A01	15	-	-	21	110	9.00	5.50	10.00	15	V1K21A01EX
	V1K25A01	15	20	7.5	25	110	9.00	5.50	10.00	15	V1K25A01EX
	V1K27A01	20	25	-	27	110	9.00	5.50	10.00	15	V1K27A01EX
	V1K35A01	25	30	10	35	130	12.00	8.00	11.50	23	V1K35A01EX
	V1K45A01	30	40	15	45	135	12.00	8.00	11.50	23	V1K45A01EX
	V1K55A01	40	50	20	55	145	12.00	8.00	11.50	23	V1K55A01EX
	V1K80A01	50 - 60	75	25 - 30	80	255	12.00	8.00	11.50	29	V1K80A01EX
	V1K110A01	75	100	40	110	245	16.50	18.00	15.00	68	V1K110A01EX
	V1K130A01	100	125	50	130	270	16.50	18.00	15.00	83	V1K130A01EX
	V1K160A01	125	150	60	160	260	16.50	18.00	15.00	83	V1K160A01EX
	V1K200A01	150	200	75	200	265	16.50	18.00	15.00	93	V1K200A01EX
	V1K250A01	200	250	100	250	290	16.50	18.00	15.00	93	V1K250A01EX
V1K305A01	250	300	-	300	325	16.50	18.00	30.00	117	V1K302A01EX	
V1K362A01	300	350	150	360	300	16.50	18.00	30.00	117	V1K361A01EX	
V1K420A01	350	450	-	420	450	16.50	18.00	30.00	132	V1K420A01EX	
V1K480A01	400	500	200	480	475	16.50	18.00	30.00	138	V1K480A01EX	
V1K600A01	500	600	-	600	515	16.50	18.00	30.00	168	V1K600A01EX	
V1K750A01	600	700	-	750	770	16.50	18.00	30.00	180	V1K750A01EX	

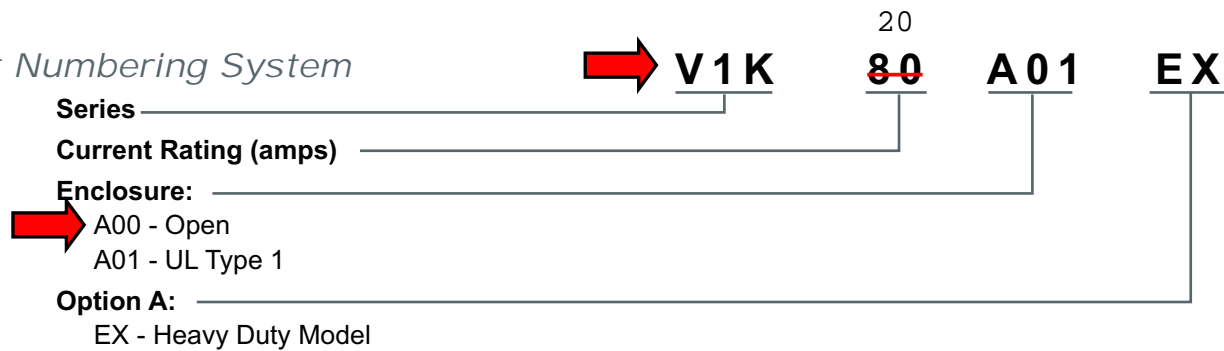
The dv/dt Guarantee

Properly sized and applied, TCI guarantees that the V1000 will limit motor terminal peak input voltage to 150% of the bus voltage with a wire lead length of 1000 feet and a carrier frequency of 4 kHz. Maximum lead length and carrier frequency can vary depending on wire lead type. If a properly selected, installed, and loaded V1000 filter fails to meet the guaranteed performance levels, TCI will provide the necessary components or replacement filter at no additional charge. TCI does not take responsibility for additional installation or removal costs, to include, but not limited to, replacement of third party equipment.

Minimum System Requirements

In order to achieve the performance levels as stated in this guarantee, the electrical system must adhere to the following: The V1K must be sized at no more than 110% of the drive output current rating. The V1K must be sized to have regular line current loading of no less than 25% of its current rating. If the load has a potential for overhauling, the drive must be equipped with braking resistors or other features limiting bus voltage to no more than the level of the peak line voltage. The V1K must be wired no more than 12 feet from the drive.

Part Numbering System



Flexible Armored THHN Cable

Units 35 Amps and Below

Frequency (kHz)	Cable Leads (feet)			
	100'	101' - 500'	501' - 1000'	> 1000'
2	V1000 - STD	V1000 - STD	V1000 - STD	V1000 - EX
4	V1000 - STD	V1000 - STD	V1000 - STD	V1000 - EX
6	V1000 - STD	V1000 - STD	V1000 - EX	MotorGuard
8	V1000 - STD	V1000 - EX	MotorGuard	MotorGuard

Units 45 Amps to 750 Amps

Frequency (kHz)	Cable Leads (feet)			
	100'	101' - 500'	501' - 1000'	> 1000'
2	V1000 - STD	V1000 - STD	V1000 - STD	V1000 - EX
4	V1000 - STD	V1000 - STD	V1000 - STD	V1000 - EX
6	V1000 - STD	V1000 - STD	V1000 - STD	V1000 - EX
8	V1000 - STD	V1000 - EX	V1000 - EX	V1000 - EX

Flat Cable or VFD Cable

Units 35 Amps and Below

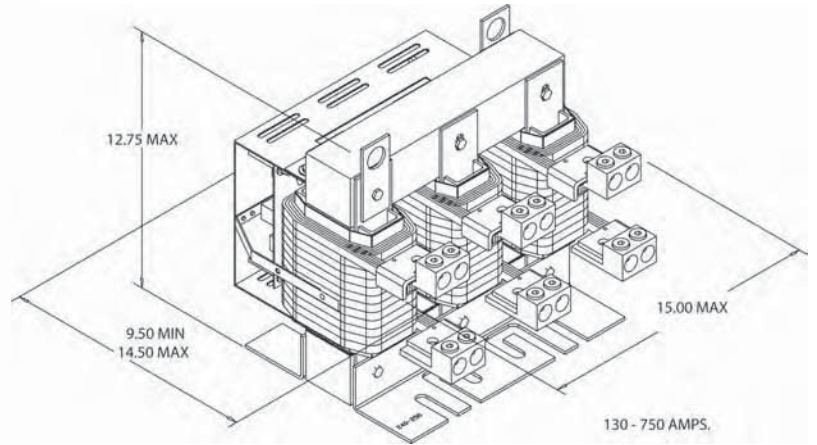
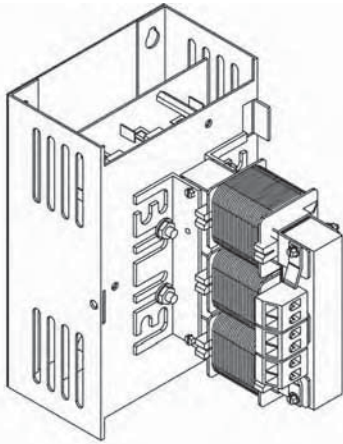
Frequency (kHz)	Cable Leads (feet)			
	100'	101' - 500'	501' - 1000'	> 1000'
2	V1000 - STD	V1000 - STD	V1000 - STD	V1000 - EX
4	V1000 - STD	V1000 - STD	V1000 - EX	MotorGuard
6	V1000 - STD	V1000 - STD	MotorGuard	MotorGuard
8	MotorGuard	MotorGuard	MotorGuard	MotorGuard

Units 45 Amps to 750 Amps

Frequency (kHz)	Cable Leads (feet)			
	100'	101' - 500'	501' - 1000'	> 1000'
2	V1000 - STD	V1000 - STD	V1000 - STD	V1000 - EX
4	V1000 - STD	V1000 - STD	V1000 - EX	MotorGuard
6	V1000 - STD	V1000 - EX	MotorGuard	MotorGuard
8	MotorGuard	MotorGuard	MotorGuard	MotorGuard

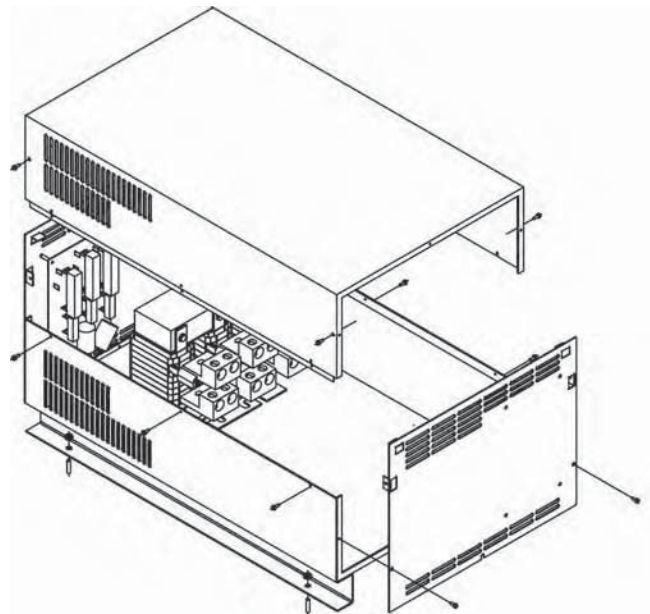
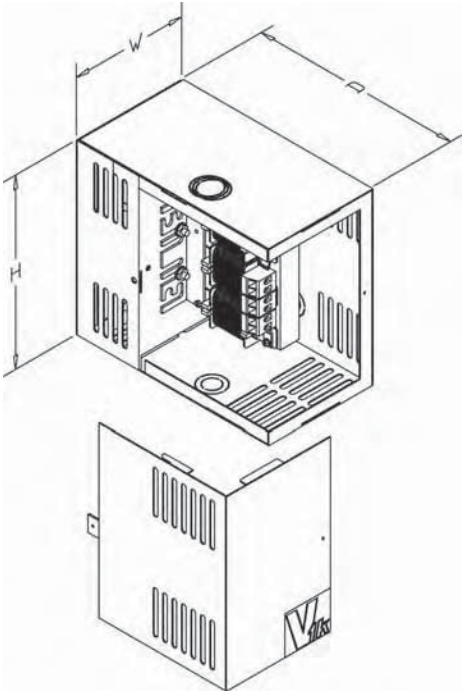


V1000 OPEN



AMPS.	H	W	D _{MAX}	MH	MW	MS
2-27	9.0	5.5	8.25	8.0	4.5	.25
35-110	12.0	8.0	10.25	11.25	7.0	.25

V1000 ENCLOSED



AMPS.	H	W	D	MH	MW	MS
2-27	9.0	5.5	10.0	8.0	4.5	.25
35-80	12.0	8.0	11.5	11.25	7.0	.25

AMPS.	D	MD	MD1	MW	MS
110-250	15.0	11.0	2.0	16.5	.38
305-750	30.0	23.00	3.50	16.5	.38