

Sine Wave Filters

Series A - Selection Table & Technical Specifications Guide

MTE SERIES A SINE WAVE FILTERS are designed to provide a Sine Wave output voltage when driven from Variable Frequency Drives or other types of PWM inverters with switching frequencies from 2kHz to 8kHz. For Variable Frequency Drive (VFD) applications, MTE Sine Wave Filters eliminate the problem of motor/cable insulation failures, heating, and audible noise. Sine Wave Filters also reduce electromagnetic interference (EMI) by eliminating the high dV/dt associated with inverter output waveforms.

APPLICATIONS - For alternative energy applications, such as wind driven generators, where an inverter is used to return power to the utility distribution system through a step-up transformer, these filters meet the requirements of IEEE-519 and permit the use of standard transformers.

Added cable protection and the economy of using standard grade electrical wire is a significant benefit of using the MTE Sine Wave Filter to protect against long lead drive to motor excess voltage problems.

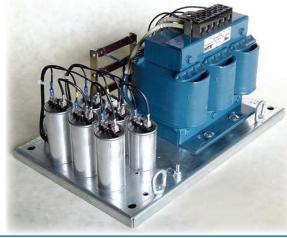
SINE WAVE FILTER SELECTION - For variable and constant torque applications, select filters based on the current rating of the motor. Filter current ratings have been designed to meet the NEC requirements. For applications that use motors with current ratings that exceed NEC values, select a filter with a current rating equal to orgreater than that of the load. Where a single filter feeds multiple motors select the filter based on the total motor current.

For inverters feeding isolation transformers select a filter with a current rating equal to or greater than that of the transformer primary current. Power and frequency converter applications which use PWM inverters to supply a wide range of loads require that the output of the Sine Wave Filter must feed a Delta–Wye isolation transformer with the primary

sized to the Sine Wave Filter full load current.







PRODUCT SELECTION: See MTE Sine Wave Filter Selection Brochure or visit the MTE website at www.mtecorp.com for complete product selection. *Please note that Series A Sine Wave Filters can only be used with PWM inverters with switching frequencies between 2kHz and 8kHz.*

BASIC SPECIFICATION RANGES - The Sine Wave Filter is available in voltage ranges of 200–230VAC, 380-480VAC, or 550-600VAC & for motor sizes from 1.5 Hp to 700 Hp. The Sine Wave Filter has a continuous current rating of 100% RMS & an intermittent current of 150% for 1 minute. Harmonic voltage distortion feeding a transformer at full load & at 60Hz is 5% maximum. Harmonic voltage distortion feeding a motor at full load & at 60Hz is 5% typical.

INSTALLATION OPTIONS: Panel-mount or NEMA 1, 2 and 3R enclosures are available.

Model Number Code Configuration: SW A XY ΥY Typical applications include: Χ • HVAC Fans Sine Wave filter -• Deep Well Pumps on VFDs Series Version. A, B, C, X -• Multi Motor Common Drive Options "X" denotes non-standard configurations 01 NC Overtemp **Conveyer Systems** Mechanical Configuration Variable Frequency Power P = Panel Mount Linear Drive Motors G = General Purpose NEMA 1 or 2 • Old Non Inverter Duty Motors W = NEMA 3R used with Modern VFDs Indicates Physical Size: A, B, C, D, etc. (A is smallest) Underground Ventilation Current Rating (i.e. 0045 is 45 Amps) Critical Process Controls Systems

THE GLOBAL POWER QUALITY RESOURCE

A = 200 - 230VAC, D = 380 - 480VAC, E = 550 - 600VAC

Selection Table Series A Sine Wave Filter Technical Data - 200 & 230VAC

200 V Motor	230 V Motor HP	Filter Amps			Open Panel Design	NEMA 1	1-2	NEMA 3	Watts			
HP			Cat. PN.	weight #	Magnetics Size	RC Panel Size	Fig.	Cat. PN.	Cab Type	Cat. PN.	Cab Type	watts
0.5	0.5	3	SWAP0003A	16	12.5"H x 9.8"W x 7.5"D		1	SWAGA0003A	CAB-13V	SWAWA0003A	CAB-12C	124
.75 - 1	.75 - 1	5	SWAP0005A	21	12.5"H x 9.8"W x 7.5"D	-	1	SWAGA0005A	CAB-13V	SWAWA0005A	CAB-12C	149
1.5	1.5	7	SWAP0007A	24	12.5"H x 9.8"W x 7.5"D	-	1	SWAGA0007A	CAB-13V	SWAWA0007A	CAB-12C	191
2	2	9	SWAP0009A	24	12.5"H x 9.8"W x 7.5"D	-	1	SWAGA0009A	CAB-13V	SWAWA0009A	CAB-12C	125
3	3	12	SWAP0012A	27	12.5"H x 9.8"W x 7.5"D		1	SWAGA0012A	CAB-13V	SWAWA0012A	CAB-12C	206
-	5	17	SWAP0017A	31	12.5"H x 9.8"W x 7.5"D	-	1	SWAGA0017A	CAB-13V	SWAWA0017A	CAB-12C	279
5	7.5	22	SWAP0022A	32	12.5"H x 9.8"W x 7.5"D	-	1	SWAGB0022A	CAB-17V	SWAWB0022A	CAB-17C	362
7.5	10	30	SWAP0030A	38	12.5"H x 9.8"W x 7.5"D	-	1	SWAGB0030A	CAB-17V	SWAWB0030A	CAB-17C	329
10	15	45	SWAP0045A	47	17"H x 11"W x 9"D	-	1	SWAGB0045A	CAB-17V	SWAWB0045A	CAB-17C	476
15	20	55	SWAP0055A	55	17"H x 11"W x 9"D	-	1	SWAGB0055A	CAB-17V	SWAWB0055A	CAB-17C	520
20	25	70	SWAP0070A	60	17"H x 11"W x 9"D	-	1	SWAGC0070A	CAB-17V	SWAWC0070A	CAB-17C	606
25	30	85	SWAP0085A	73	6.9"H x 9"W x 8.1"D	20"H x 11"W x 7.6"D	2	SWAGC0085A	CAB-26C	SWAWC0085A	CAB-26C	752
30	40	110	SWAP0110A	92	8.8"H x 11"W x 9.8"D	20"H x 11"W x 7.6"D	2	SWAGC0110A	CAB-26C	SWAWC0110A	CAB-26C	788
40	50	135	SWAP0135A	100	8.8"H x 11"W x 9.8"D	20"H x 11"W x 7.6"D	2	SWAGC0135A	CAB-26C	SWAWC0135A	CAB-26C	989
50	60	160	SWAP0160A	121	8.8"H x 11"W x 9.8"D	20"H x 11"W x 7.6"D	2	SWAGC0160A	CAB-26C	SWAWC0160A	CAB-26C	1062
60	75	200	SWAP0200A	167	13"H x 14.4"W x 10.8"D	27"H x 17"W x 7.6"D	2	SWAGC0200A	CAB-30C	SWAWC0200A	CAB-30C	1377
75	100	250	SWAP0250A	196	13"H x 14.4"W x 11.3"D	27"H x 17"W x 7.6"D	2	SWAGD0250A	CAB-30C	SWAWD0250A	CAB-30C	1617
100	125	320	SWAP0320A	228	13"H x 14.4"W x 11.5"D	27"H x 17"W x 7.6"D	2	SWAGD0320A	CAB-30C	SWAWD0320A	CAB-30C	1991

Sine Wave Filter Selection:

Select filters based on the current rating of the motor for both variable and constant torque applications. These filters have been designed to meet motor current requirements based on the NEC motor ratings. For applications that exceed NEC current ratings, use the next larger filter. Series A Sine Wave Filters are available as open panel and with enclosed ratings including NEMA 1, NEMA 2, and NEMA 3R.

Weight

18#

27#

68#

84#

180#

319#

Depth

23"

26"

30"

Type

CAB-13V

CAB-17V

CAB-12C

CAB-17C

CAB-26C

CAB-30C

Size inches

13"'H x 13"W x 13"D

24""H x 17"W x 18"D

24"'H x 13"W x 18"D

31"'H x 18"W x 21"D

47"'H x 27"W x 25"D

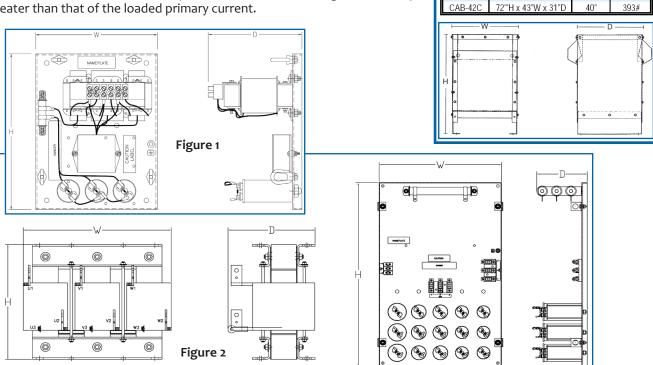
72"'H x 31"W x 31"D

Multiple Motors On One Filter:

Where a single filter is used to feed multiple motors, the filter current rating should be selected equal to the total current ratings of all motors.

Variable Frequency Power Source:

For inverter power applications, use a Delta-Wye isolation transformer or step-up transformer on the Sine Wave Filter output. The filter current rating should be equal to or greater than that of the loaded primary current.



Selection Table Series A Sine Wave Filter Technical Data - 380, 480, & 600VAC

380 V	480 V	Filter	Open Panel Design							NEMA 1-2		NEMA 3R		101
Motor KW	Motor HP	Amps	tar PN		weight #	Magnetics Size	RC Panel Size	F	ig.	Cat. PN.	Cab Type	Cat. PN.	Cab Type	Watts
0.75	1	2	SWAP	0002D	16	12.5"H x 9.8"W x 7.5	"D -		1	SWAGA0002D	CAB-13V	SWAWA0002D	CAB-12C	40
1.1	1.5	3	SWAP	0003D	18	12.5"H x 9.8"W x 7.5	"D -		1	SWAGA0003D	CAB-13V	SWAWA0003D	CAB-12C	53
1.5 - 2.2	2 - 3	5	SWAP	0005D	22	12.5"H x 9.8"W x 7.5	"D -		1	SWAGA0005D	CAB-13V	SWAWA0005D	CAB-12C	93
3	-	7	SWAP	0007D	25	12.5"H x 9.8"W x 7.5	"D -		1	SWAGA0007D		SWAWA0007D	CAB-12C	110
4	5	9	SWAP	0009D	27	12.5"H x 9.8"W x 7.5			1	SWAGA0009D		SWAWA0009D	CAB-12C	128
5.5	7.5	12	SWAP	0012D	27	12.5"H x 9.8"W x 7.5	"D -		1	SWAGA0012D		SWAWA0012D	CAB-12C	162
7.5	10	17	SWAP	0017D	30	12.5"H x 9.8"W x 7.5	"D -		1	SWAGA0017D		SWAWA0017D	CAB-12C	151
11	15	22	SWAP		37	17"H x 11"W x 9"[-		1	SWAGB0022D	CAB-17V	SWAWB0022D	CAB-17C	229
-	20	27	SWAP	0027D	38	17"H x 11"W x 9"[-		1	SWAGB0027D		SWAWB0027D	CAB-17C	216
15	25	35	SWAP	0035D	51	17"H x 11"W x 9"[-		1	SWAGB0035D	CAB-17V	SWAWB0035D	CAB-17C	262
18.5-22	30	45	SWAP	0045D	57	17"H x 11"W x 9"[-		1	SWAGB0045D	CAB-17V	SWAWB0045D	CAB-17C	360
-	40	55	SWAP	0055D	67	17"H x 11"W x 9"[-		1	SWAGB0055D	CAB-17V	SWAWB0055D	CAB-17C	457
30	50	65	SWAP	0065D	77	17"H x 13"W x 9"[-		1	SWAGB0065D	CAB-17V	SWAWB0065D	CAB-17C	454
37	60	80	SWAP	D080D	86	17"H x 13"W x 9"[-		1	SWAGC0080D	CAB-26C	SWAWC0080D	CAB-26C	596
45-55	75	110	SWAP	0110D	117	13"H x 14.4"W x 10.5	5"D 20"H x 11"W x 7.6	"D	2	SWAGC0110D	CAB-26C	SWAWC0110D	CAB-26C	878
	100	130	SWAP	0130D	134	13"H x 14.4"W x 10.8	B"D 20"H x 11"W x 7.6	"D	2	SWAGC0130D	CAB-26C	SWAWC0130D	CAB-26C	836
75-90	125	160	SWAP	0160D	163	13"H x 14.4"W x 11.3			2	SWAGC0160D	CAB-26C	SWAWC0160D	CAB-26C	996
110	150	200	SWAP		188	13"H x 14.4"W x 11.5			2	SWAGD0200D		SWAWD0200D	CAB-30C	1286
132	200	250	SWAP		233	13"H x 14.4"W x 13.5			2	SWAGD0250D		SWAWD0250D	CAB-30C	1424
160	250	305	SWAP		266	13"H x 14.4"W x 15			2	SWAGD0305D		SWAWD0305D	CAB-30C	1701
185-200	300	365	SWAP		425	17"H x 22"W x 12.5			2	SWAGD0365D		SWAWD0365D	CAB-30C	1841
-	350	415	SWAP		500	17"H x 22"W x 15.5			2	SWAGD0415D		SWAWD0415D	CAB-30C	2021
250	400-450	515	SWAP		650	17"H x 22"W x 15.5			2	SWAGD0515D		SWAWD0515D	CAB-30C	2944
315	500	600	SWAP		825	17"H x 22"W x 22"l			2	SWAGE0600D		SWAWE0600D	CAB-42C	3698
355-400	600	720			1125				2	SWAGE0720D		SWAWE0720D	CAB-42C	4133
333 400	000	720	SWALC	07200	1120	20.0 11 x 30.0 W X 10.	SWAP0720D 1125 28.5"H x 33.5"W x 19.5"D 38"H x 17"W x 7.3"D 2						JIIIII OND TEO	
2001/	Filter		Open Panel Design							NEMA 1-2				
600 V	Filter				Ope	en Panel Desigr	1			NEMA 1	-2	NEMA 3	3R	
Motor HP	Filter Amps	Cat	. PN.	weight	_	en Panel Design Magnetics Size	RC Panel Size	Fig.		NEMA 1 Cat. PN.	-2 Cab Type	NEMA 3	Cab Type	Watts
Motor HP	Amps			Ů	#	Magnetics Size		Ľ	S	Cat. PN.	Cab Type	Cat. PN.	Cab Type	
Motor HP 1.5	Amps 2	SWAF	P0002E	18	# 12.5	Magnetics Size		1		Cat. PN. WAGA0002E	Cab Type CAB-13V	Cat. PN. SWAWA0002E	Cab Type CAB-12C	57
Motor HP 1.5 2	Amps 2 3	SWAF	P0002E P0003E	18 21	# 12.5 12.5	Magnetics Size 5"H x 9.8"W x 7.5"D 5"H x 9.8"W x 7.5"D		1	S	Cat. PN. WAGA0002E WAGA0003E	Cab Type CAB-13V CAB-13V	Cat. PN. SWAWA0002E SWAWA0003E	Cab Type CAB-12C CAB-12C	57 67
Motor HP 1.5 2 3	2 3 5	SWAF SWAF	P0002E P0003E P0005E	18 21 24	# 12.5 12.5 12.5	Magnetics Size 5"H x 9.8"W x 7.5"D 5"H x 9.8"W x 7.5"D 5"H x 9.8"W x 7.5"D		1 1 1	SI SI	Cat. PN. WAGA0002E WAGA0003E WAGA0005E	Cab Type CAB-13V CAB-13V CAB-13V	Cat. PN. SWAWA0002E SWAWA0003E SWAWA0005E	Cab Type CAB-12C CAB-12C CAB-12C	57 67 95
Motor HP 1.5 2 3 5	2 3 5 7	SWAF SWAF SWAF	P0002E P0003E P0005E P0007E	18 21 24 26	# 12.5 12.5 12.5 12.5	Magnetics Size "H x 9.8"W x 7.5"D		1	SI SI	Cat. PN. WAGA0002E WAGA0003E WAGA0005E WAGA0007E	CAB-13V CAB-13V CAB-13V CAB-13V	Cat. PN. SWAWA0002E SWAWA0003E SWAWA0005E SWAWA0007E	Cab Type CAB-12C CAB-12C CAB-12C CAB-12C	57 67 95 120
Motor HP 1.5 2 3 5 7.5	2 3 5 7 9	SWAF SWAF SWAF SWAF	P0002E P0003E P0005E P0007E P0009E	18 21 24 26 27	12.5 12.5 12.5 12.5 12.5	Magnetics Size 5"H x 9.8"W x 7.5"D		1 1 1 1	SI SI SI	Cat. PN. WAGA0002E WAGA0003E WAGA0005E WAGA0007E WAGA0009E	CAB-13V CAB-13V CAB-13V CAB-13V CAB-13V	Cat. PN. SWAWA0002E SWAWA0003E SWAWA0005E SWAWA0007E SWAWA0009E	CAB-12C CAB-12C CAB-12C CAB-12C CAB-12C CAB-12C	57 67 95 120 155
Motor HP 1.5 2 3 5 7.5 10	2 3 5 7 9 12	SWAF SWAF SWAF SWAF SWAF	P0002E P0003E P0005E P0007E P0009E	18 21 24 26 27 27	12.5 12.5 12.5 12.5 12.5 12.5	Magnetics Size 5"H x 9.8"W x 7.5"D		1 1 1 1 1 1 1	S! S! S! S!	Cat. PN. WAGA0002E WAGA0003E WAGA0005E WAGA0007E WAGA0009E WAGA0012E	Cab Type CAB-13V CAB-13V CAB-13V CAB-13V CAB-13V	Cat. PN. SWAWA0002E SWAWA0003E SWAWA0005E SWAWA0007E SWAWA0009E SWAWA0012E	Cab Type CAB-12C CAB-12C CAB-12C CAB-12C CAB-12C CAB-12C CAB-12C	57 67 95 120 155 177
Motor HP 1.5 2 3 5 7.5 10	2 3 5 7 9 12 17	SWAF SWAF SWAF SWAF SWAF SWAF	P0002E P0003E P0005E P0007E P0009E P0012E P0017E	18 21 24 26 27 27 37	12.5 12.5 12.5 12.5 12.5 12.5	Magnetics Size 5"H x 9.8"W x 7.5"D 7"H x 11"W x 9"D		1 1 1 1 1 1	SI SI SI SI	Cat. PN. WAGA0002E WAGA0003E WAGA0005E WAGA0007E WAGA0009E WAGA0012E WAGB0017E	Cab Type CAB-13V CAB-13V CAB-13V CAB-13V CAB-13V CAB-13V CAB-17V	Cat. PN. SWAWA0002E SWAWA0003E SWAWA0007E SWAWA0009E SWAWA0012E SWAWB0017E	Cab Type CAB-12C CAB-12C CAB-12C CAB-12C CAB-12C CAB-12C CAB-17C	57 67 95 120 155 177 219
Motor HP 1.5 2 3 5 7.5 10 15 20	Amps 2 3 5 7 9 12 17 22	SWAF SWAF SWAF SWAF SWAF SWAF SWAF	P0002E P0003E P0005E P0007E P0009E P0012E P0017E	18 21 24 26 27 27 37 38	12.5 12.5 12.5 12.5 12.5 12.5 12.5 11.5	Magnetics Size 5"H x 9.8"W x 7.5"D 7"H x 11"W x 9"D 7"H x 11"W x 9"D		1 1 1 1 1 1 1 1	SI SI SI SI SI	Cat. PN. WAGA0002E WAGA0003E WAGA0005E WAGA0007E WAGA0009E WAGA0012E WAGB0017E WAGB0022E	CAB-13V CAB-13V CAB-13V CAB-13V CAB-13V CAB-13V CAB-17V CAB-17V	Cat. PN. SWAWA0002E SWAWA0003E SWAWA0005E SWAWA0007E SWAWA0009E SWAWA0012E SWAWB0017E SWAWB0022E	CAB-12C CAB-12C CAB-12C CAB-12C CAB-12C CAB-12C CAB-17C CAB-17C	57 67 95 120 155 177 219 253
Motor HP 1.5 2 3 5 7.5 10 15 20 25	Amps 2 3 5 7 9 12 17 22 27	SWAF SWAF SWAF SWAF SWAF SWAF SWAF	P0002E P0003E P0005E P0007E P0009E P0012E P0017E P0022E P0027E	18 21 24 26 27 27 37 38 45	12.5 12.5 12.5 12.5 12.5 12.5 12.5 11	Magnetics Size 5"H x 9.8"W x 7.5"D 7"H x 11"W x 9"D 7"H x 11"W x 9"D 7"H x 11"W x 9"D		1 1 1 1 1 1 1 1	SI SI SI SI SI	Cat. PN. WAGA0002E WAGA0003E WAGA0005E WAGA0007E WAGA0009E WAGA0012E WAGB0017E WAGB0022E WAGB0027E	CAB-13V CAB-13V CAB-13V CAB-13V CAB-13V CAB-13V CAB-17V CAB-17V CAB-17V	Cat. PN. SWAWA0002E SWAWA0003E SWAWA0005E SWAWA0007E SWAWA0009E SWAWA0012E SWAWB0017E SWAWB0022E SWAWB0027E	CAB-12C CAB-12C CAB-12C CAB-12C CAB-12C CAB-12C CAB-17C CAB-17C CAB-17C	57 67 95 120 155 177 219 253 295
Motor HP 1.5 2 3 5 7.5 10 15 20 25 30	2 3 5 7 9 12 17 22 27 35	SWAF SWAF SWAF SWAF SWAF SWAF SWAF SWAF	P0002E P0003E P0005E P0007E P0009E P0012E P0017E P0022E P0027E P0035E	18 21 24 26 27 27 37 38 45 58	12.5 12.5 12.5 12.5 12.5 12.5 11 11	Magnetics Size 5"H x 9.8"W x 7.5"D 7"H x 9.8"W x 7.5"D 7"H x 11"W x 9"D		1 1 1 1 1 1 1 1	SI SI SI SI SI SI	Cat. PN. WAGA0002E WAGA0003E WAGA0005E WAGA0007E WAGA0009E WAGA0012E WAGB0017E WAGB0022E WAGB0027E WAGB0035E	CAB-13V CAB-13V CAB-13V CAB-13V CAB-13V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17V	Cat. PN. SWAWA0002E SWAWA0003E SWAWA0005E SWAWA0007E SWAWA0009E SWAWA0012E SWAWB0017E SWAWB0027E SWAWB0027E SWAWB0035E	CAB-12C CAB-12C CAB-12C CAB-12C CAB-12C CAB-12C CAB-17C CAB-17C CAB-17C CAB-17C	57 67 95 120 155 177 219 253 295 323
Motor HP 1.5 2 3 5 7.5 10 15 20 25 30 40	2 3 5 7 9 12 17 22 27 35 45	SWAF SWAF SWAF SWAF SWAF SWAF SWAF SWAF	P0002E P0003E P0005E P0007E P0009E P0012E P0017E P0022E P0027E P0035E P0045E	18 21 24 26 27 27 37 38 45 58	12.5 12.5 12.5 12.5 12.5 12.5 12.5 11 11	Magnetics Size 5"H x 9.8"W x 7.5"D 7"H x 11"W x 9"D		1 1 1 1 1 1 1 1 1	SI SI SI SI SI SI SI	Cat. PN. WAGA0002E WAGA0005E WAGA0007E WAGA0009E WAGA0012E WAGB0017E WAGB0027E WAGB0027E WAGB0027E WAGB0035E WAGB0045E	CAB-13V CAB-13V CAB-13V CAB-13V CAB-13V CAB-13V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17V	Cat. PN. SWAWA0002E SWAWA0003E SWAWA0005E SWAWA0007E SWAWA0009E SWAWA0012E SWAWB0017E SWAWB0022E SWAWB0027E SWAWB0025E SWAWB0035E SWAWB0045E	CAB-12C CAB-12C CAB-12C CAB-12C CAB-12C CAB-12C CAB-17C CAB-17C CAB-17C CAB-17C CAB-17C	57 67 95 120 155 177 219 253 295 323 489
Motor HP 1.5 2 3 5 7.5 10 15 20 25 30 40 50	2 3 5 7 9 12 17 22 27 35 45 55	SWAF SWAF SWAF SWAF SWAF SWAF SWAF SWAF	P0002E P0003E P0005E P0007E P0009E P0012E P0017E P0022E P0027E P0035E P0045E P0055E	18 21 24 26 27 27 37 38 45 58 63 75	12.5 12.5 12.5 12.5 12.5 12.5 11 11 11 11	Magnetics Size 5"H x 9.8"W x 7.5"D 7"H x 11"W x 9"D		1 1 1 1 1 1 1 1 1 1	S1 S	Cat. PN. WAGA0002E WAGA0003E WAGA0007E WAGA0009E WAGA0012E WAGB0017E WAGB0022E WAGB0025E WAGB0025E WAGB0035E WAGB0045E WAGB0055E	CAB-13V CAB-13V CAB-13V CAB-13V CAB-13V CAB-13V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17V	Cat. PN. SWAWA0002E SWAWA0003E SWAWA0005E SWAWA0007E SWAWA0009E SWAWA0012E SWAWB0017E SWAWB0027E SWAWB0027E SWAWB0025E SWAWB0035E SWAWB0055E	Cab Type CAB-12C CAB-12C CAB-12C CAB-12C CAB-12C CAB-17C CAB-17C CAB-17C CAB-17C CAB-17C CAB-17C CAB-17C CAB-17C CAB-17C	57 67 95 120 155 177 219 253 295 323 489 535
Motor HP 1.5 2 3 5 7.5 10 15 20 25 30 40 50 60	Amps 2 3 5 7 9 12 17 22 27 35 45 55 65	SWAF SWAF SWAF SWAF SWAF SWAF SWAF SWAF	P0002E P0003E P0005E P0007E P0009E P0012E P0017E P0022E P0027E P0035E P0045E P0055E	18 21 24 26 27 27 37 38 45 58 63 75	12.5 12.5 12.5 12.5 12.5 12.5 11 11 11 11 11	Magnetics Size 5"H x 9.8"W x 7.5"D 7"H x 11"W x 9"D 7"H x 13"W x 9"D 7"H x 13"W x 9"D 7"H x 13"W x 9"D	RC Panel Size	1 1 1 1 1 1 1 1 1 1 1	S1 S1 S1 S1 S1 S1 S1 S1 S1 S1	Cat. PN. WAGA0002E WAGA0003E WAGA0007E WAGA0009E WAGA0012E WAGB0017E WAGB0022E WAGB0027E WAGB0025E WAGB0045E WAGB0065E	CAB-13V CAB-13V CAB-13V CAB-13V CAB-13V CAB-13V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17V	Cat. PN. SWAWA0002E SWAWA0003E SWAWA0007E SWAWA0009E SWAWA0012E SWAWB0017E SWAWB0022E SWAWB0027E SWAWB0025E SWAWB0045E SWAWB0065E	Cab Type CAB-12C CAB-12C CAB-12C CAB-12C CAB-12C CAB-17C	57 67 95 120 155 177 219 253 295 323 489 535 650
Motor HP 1.5 2 3 5 7.5 10 15 20 25 30 40 50 60 75	Amps 2 3 5 7 9 12 17 22 27 35 45 55 65 80	SWAF SWAF SWAF SWAF SWAF SWAF SWAF SWAF	P0002E P0003E P0005E P0007E P0009E P0012E P0017E P0022E P0027E P0035E P0045E P0065E P0080E	18 21 24 26 27 27 37 38 45 58 63 75 86	# 12.5 12.5 12.5 12.5 12.5 12.5 11 11 11 11 11 11 13"H	Magnetics Size 5"H x 9.8"W x 7.5"D 7"H x 11"W x 9"D 7"H x 13"W x 9"D 7"H x 13"W x 9"D 7"H x 13"W x 9"D 1x 14.4"W x 10.5"D	RC Panel Size 20"H x 11"W x 7.6"D	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$	Cat. PN. WAGA0002E WAGA0003E WAGA0007E WAGA0009E WAGA0012E WAGB0017E WAGB0022E WAGB0027E WAGB0025E WAGB0035E WAGB0045E WAGB0065E WAGC0080E	CAB-13V CAB-13V CAB-13V CAB-13V CAB-13V CAB-13V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17V	Cat. PN. SWAWA0002E SWAWA0003E SWAWA0007E SWAWA0009E SWAWA0012E SWAWB0017E SWAWB0022E SWAWB0027E SWAWB0025E SWAWB0055E SWAWB0065E SWAWC0080E	Cab Type CAB-12C CAB-12C CAB-12C CAB-12C CAB-12C CAB-17C	57 67 95 120 155 177 219 253 295 323 489 535 650 806
Motor HP 1.5 2 3 5 7.5 10 15 20 25 30 40 50 60 75 100	Amps 2 3 5 7 9 12 17 22 27 35 45 55 65 80 110	SWAF SWAF SWAF SWAF SWAF SWAF SWAF SWAF	P0002E P0003E P0005E P0007E P0009E P0012E P0017E P0022E P0027E P0035E P0045E P0065E P0065E P0080E	18 21 24 26 27 27 37 38 45 58 63 75 86 117	# 12.5 12.5 12.5 12.5 12.5 12.5 11 11 11 11 11 13"H	Magnetics Size "H x 9.8"W x 7.5"D "H x 11"W x 9"D "H x 13"W x 9"D "H x 13"W x 9"D 1x 14.4"W x 10.5"D 1x 14.4.4"W x 10.8"D	RC Panel Size 20"H x 11"W x 7.6"D	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S	Cat. PN. WAGA0002E WAGA0003E WAGA0005E WAGA0007E WAGA0009E WAGA0012E WAGB0017E WAGB0022E WAGB0027E WAGB0035E WAGB0045E WAGB0065E WAGC0080E WAGC0110E	CAB-13V CAB-13V CAB-13V CAB-13V CAB-13V CAB-13V CAB-17V	Cat. PN. SWAWA0002E SWAWA0003E SWAWA0005E SWAWA0007E SWAWA0009E SWAWA0012E SWAWB0017E SWAWB0027E SWAWB0027E SWAWB0035E SWAWB0055E SWAWB0065E SWAWC0080E SWAWC0110E	Cab Type CAB-12C CAB-12C CAB-12C CAB-12C CAB-12C CAB-17C CAB-	57 67 95 120 155 177 219 253 295 323 489 535 650 806 1014
Motor HP 1.5 2 3 5 7.5 10 15 20 25 30 40 50 60 75 100 125	2 3 5 7 9 12 17 22 27 35 45 55 65 80 110 130	SWAF SWAF SWAF SWAF SWAF SWAF SWAF SWAF	P0002E P0003E P0005E P0007E P0009E P0012E P0017E P0022E P0035E P0045E P0065E P0065E P0080E P0110E P0130E	18 21 24 26 27 27 37 38 45 58 63 75 86 117 146	# 12.5 12.5 12.5 12.5 12.5 11 11 11 11 11 13"H 13"H	Magnetics Size "H x 9.8"W x 7.5"D 5"H x 9.8"W x 7.5"D "H x 11"W x 9"D "H x 14.4"W x 9"D H x 14.4"W x 10.5"D H x 14.4"W x 10.5"D H x 14.4"W x 10.8"D H x 14.4"W x 11.3"D	RC Panel Size	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S	Cat. PN. WAGA0002E WAGA0003E WAGA0007E WAGA0007E WAGA0012E WAGB0017E WAGB0022E WAGB0027E WAGB0035E WAGB0045E WAGB0055E WAGB0065E WAGC0080E WAGC0130E	Cab Type CAB-13V CAB-13V CAB-13V CAB-13V CAB-13V CAB-17V CAB-17C CAB-	Cat. PN. SWAWA0002E SWAWA0003E SWAWA0005E SWAWA0007E SWAWA0009E SWAWA0012E SWAWB0017E SWAWB0027E SWAWB0027E SWAWB0035E SWAWB0045E SWAWB0055E SWAWB0065E SWAWC0110E SWAWC0130E	Cab Type CAB-12C CAB-12C CAB-12C CAB-12C CAB-12C CAB-17C CAB-	57 67 95 120 155 177 219 253 295 323 489 535 650 806 1014 1157
Motor HP 1.5 2 3 5 7.5 10 15 20 25 30 40 50 60 75 100 125 150	2 3 5 7 9 12 17 22 27 35 45 55 65 80 110 130 160	SWAF SWAF SWAF SWAF SWAF SWAF SWAF SWAF	P0002E P0003E P0005E P0007E P0009E P0012E P0017E P0022E P0035E P0035E P0045E P0065E P0065E P0080E P0110E P0130E	18 21 24 26 27 27 37 38 45 58 63 75 86 117 146 166 194	# 12.5 12.5 12.5 12.5 12.5 12.5 11 11 11 11 13"H 13"H 13"H	Magnetics Size "H x 9.8" W x 7.5" D "H x 11" W x 9" D "H x 14.4" W x 10.5" D 1 x 14.4" W x 10.8" D 1 x 14.4" W x 11.3" D 1 x 14.4" W x 12.3" D	RC Panel Size	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S	Cat. PN. WAGA0002E WAGA0003E WAGA0005E WAGA0007E WAGA0009E WAGA0012E WAGB0017E WAGB0022E WAGB0027E WAGB0035E WAGB0045E WAGB0055E WAGB0065E WAGC0110E WAGC0130E WAGC0160E	Cab Type CAB-13V CAB-13V CAB-13V CAB-13V CAB-13V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17C CAB-	Cat. PN. SWAWA0002E SWAWA0003E SWAWA0005E SWAWA0007E SWAWA0009E SWAWA0012E SWAWB0017E SWAWB0017E SWAWB0027E SWAWB0035E SWAWB0045E SWAWB0055E SWAWB0065E SWAWC0110E SWAWC0130E SWAWC0160E	CAB-12C CAB-12C CAB-12C CAB-12C CAB-12C CAB-12C CAB-17C CAB-17	57 67 95 120 155 177 219 253 295 323 489 535 650 806 1014 1157 1589
Motor HP 1.5 2 3 5 7.5 10 15 20 25 30 40 50 60 75 100 125 150 200	2 3 5 7 9 12 17 22 27 35 45 55 65 80 110 130 160 200	SWAF SWAF SWAF SWAF SWAF SWAF SWAF SWAF	P0002E P0003E P0005E P0007E P00012E P0012E P0022E P0027E P0035E P0045E P0065E P0065E P0110E P0130E P0130E P0130E	18 21 24 26 27 27 37 38 45 58 63 75 86 117 146 166 194 236	# 12.5 12.5 12.5 12.5 12.5 12.5 12.5 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13	Magnetics Size 5"H x 9.8"W x 7.5"D 7"H x 11"W x 9"D 1"H x 14.4"W x 10.5"D 1 x 14.4"W x 10.8"D 1 x 14.4"W x 11.3"D 1 x 14.4"W x 12.3"D 1 x 14.4"W x 13.5"D	RC Panel Size	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2	S1 S	Cat. PN. WAGA0002E WAGA0003E WAGA0005E WAGA0009E WAGA0012E WAGB0017E WAGB0027E WAGB0027E WAGB0035E WAGB0045E WAGB0055E WAGB0065E WAGC0110E WAGC0110E WAGC0160E WAGC0160E	Cab Type CAB-13V CAB-13V CAB-13V CAB-13V CAB-13V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17C CAB-	Cat. PN. SWAWA0002E SWAWA0003E SWAWA0005E SWAWA0007E SWAWA0009E SWAWA0012E SWAWB0017E SWAWB0027E SWAWB0027E SWAWB0025E SWAWB0055E SWAWB0055E SWAWB0065E SWAWC0110E SWAWC0130E SWAWC0130E SWAWC0160E SWAWD0200E	CAB-12C CAB-12C CAB-12C CAB-12C CAB-12C CAB-12C CAB-17C CAB-26C CAB-26C CAB-26C CAB-26C CAB-30C	57 67 95 120 155 177 219 253 295 323 489 535 650 806 1014 1157 1589 1315
Motor HP 1.5 2 3 5 7.5 10 15 20 25 30 40 50 60 75 100 125 150 200 250	2 3 5 7 9 12 17 22 27 35 45 55 65 80 110 130 160 200 250	SWAF SWAF SWAF SWAF SWAF SWAF SWAF SWAF	P0002E P0003E P0005E P0007E P00012E P0017E P0022E P0027E P0035E P0045E P0055E P0065E P0110E P0130E P0130E P0130E P0130E P0250E	18 21 24 26 27 27 37 38 45 58 63 75 86 117 146 166 194 236 280	# 12.5 12.5 12.5 12.5 12.5 12.5 12.5 11 11 11 11 13"H 13"H 13"H 13"H	Magnetics Size 5"H x 9.8"W x 7.5"D 7"H x 11"W x 9"D 1"H x 13"W x 9"D 1"H x 14.4"W x 10.5"D 1 x 14.4"W x 11.3"D 1 x 14.4"W x 12.3"D 1 x 14.4"W x 13.5"D 1 x 14.4"W x 13.5"D	RC Panel Size	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2	S1 S	Cat. PN. WAGA0002E WAGA0003E WAGA0005E WAGA0007E WAGA0009E WAGA0012E WAGB0017E WAGB0022E WAGB0027E WAGB0025E WAGB0055E WAGB0055E WAGC0080E WAGC0110E WAGC0130E WAGC0160E WAGC0160E WAGD0250E	CAB-13V CAB-13V CAB-13V CAB-13V CAB-13V CAB-13V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17C CAB-17	Cat. PN. SWAWA0002E SWAWA0003E SWAWA0005E SWAWA0007E SWAWA0009E SWAWA0012E SWAWB0017E SWAWB0027E SWAWB0027E SWAWB0025E SWAWB0035E SWAWB0055E SWAWB0055E SWAWC0110E SWAWC0130E SWAWC0160E SWAWC0160E SWAWD0200E SWAWD0250E	Cab Type CAB-12C CAB-12C CAB-12C CAB-12C CAB-12C CAB-17C CAB-	57 67 95 120 155 177 219 253 295 323 489 535 650 806 1014 1157 1589 1315 1655
Motor HP 1.5 2 3 5 7.5 10 15 20 25 30 40 50 60 75 100 125 150 200 250 300	2 3 5 7 9 12 17 22 27 35 45 55 65 80 110 130 160 200 250 305	SWAF SWAF SWAF SWAF SWAF SWAF SWAF SWAF	P0002E P0003E P0005E P0007E P0009E P0012E P0017E P0022E P0027E P0035E P0045E P0065E P0065E P0110E P0130E P0160E P0200E P0250E P0305E	18 21 24 26 27 27 37 38 45 58 63 75 86 117 146 166 194 236 280 425	# 12.5 12.5 12.5 12.5 12.5 12.5 11 11 11 11 13"H 13"H 13"H 13"H 13"H	Magnetics Size 5"H x 9.8"W x 7.5"D 7"H x 11"W x 9"D 1"H x 13"W x 9"D 1"H x 13"W x 9"D 1 x 14.4"W x 10.5"D 1 x 14.4"W x 11.3"D 1 x 14.4"W x 13.5"D	RC Panel Size	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2	S1 S	Cat. PN. WAGA0002E WAGA0003E WAGA0005E WAGA0007E WAGA0009E WAGA0012E WAGB0017E WAGB0022E WAGB0027E WAGB0025E WAGB0045E WAGB0055E WAGC0080E WAGC0110E WAGC0110E WAGC0130E WAGC0160E WAGC0160E WAGD0250E WAGD035E	CAB-13V CAB-13V CAB-13V CAB-13V CAB-13V CAB-13V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17V CAB-17C CAB-17	Cat. PN. SWAWA0002E SWAWA0003E SWAWA0005E SWAWA0007E SWAWA0009E SWAWA0012E SWAWB0017E SWAWB0027E SWAWB0027E SWAWB0025E SWAWB0045E SWAWB0055E SWAWB0065E SWAWC0110E SWAWC0130E SWAWC0160E SWAWC0160E SWAWD0200E SWAWD0250E SWAWD0305E	Cab Type CAB-12C CAB-12C CAB-12C CAB-12C CAB-12C CAB-17C CAB-	57 67 95 120 155 177 219 253 295 323 489 535 650 806 1014 1157 1589 1315 1655 2237
Motor HP 1.5 2 3 5 7.5 10 15 20 25 30 40 50 60 75 100 125 150 200 250 300 350	2 3 5 7 9 12 17 22 27 35 45 55 65 80 110 130 160 200 250 305 365	SWAF SWAF SWAF SWAF SWAF SWAF SWAF SWAF	P0002E P0003E P0005E P0007E P0007E P0012E P0017E P0022E P0035E P0035E P0045E P0035E P0110E P0130E P0130E P0250E P0250E P0250E P0250E P0365E	18 21 24 26 27 27 37 38 45 58 63 75 86 117 146 166 194 236 280 425 490	# 12.5 12.5 12.5 12.5 12.5 12.5 12.5 13.7 11.1 13.7 13.7 13.7 13.7 13.7 13.7	Magnetics Size 5"H x 9.8"W x 7.5"D 7"H x 11"W x 9"D 1"H x 11"W x 10.5"D 1 x 14.4"W x 10.5"D 1 x 14.4"W x 13.5"D 1 x 14.4"W x 13.5"D 1 x 12.5"D 1 x 22"W x 13.5"D 1 x 22"W x 13.5"D	RC Panel Size	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2	SI S	Cat. PN. WAGA0002E WAGA0003E WAGA0007E WAGA0007E WAGA0009E WAGA0012E WAGB0017E WAGB0022E WAGB0027E WAGB0025E WAGB0045E WAGB0045E WAGB0055E WAGC010E WAGC0110E WAGC0130E WAGC0160E WAGC0160E WAGD0250E WAGD035E WAGD035E	CAB-13V CAB-13V CAB-13V CAB-13V CAB-13V CAB-13V CAB-17V CAB-17	Cat. PN. SWAWA0002E SWAWA0003E SWAWA0007E SWAWA0009E SWAWA0012E SWAWB0017E SWAWB0022E SWAWB0027E SWAWB0025E SWAWB0045E SWAWB0055E SWAWB0055E SWAWC0110E SWAWC0110E SWAWC0130E SWAWC0160E SWAWC0160E SWAWD0250E SWAWD0250E SWAWD0355E SWAWD0355E SWAWD0365E	Cab Type CAB-12C CAB-12C CAB-12C CAB-12C CAB-12C CAB-17C CAB-	57 67 95 120 155 177 219 253 295 323 489 535 650 806 1014 1157 1589 1315 1655 2237 2489
Motor HP 1.5 2 3 5 7.5 10 15 20 25 30 40 50 60 75 100 125 150 200 250 300 350 400	2 3 5 7 9 12 17 22 27 35 45 55 65 80 110 130 160 200 250 305 365 415	SWAF SWAF SWAF SWAF SWAF SWAF SWAF SWAF	P0002E P0003E P0005E P0007E P0007E P0012E P0017E P0022E P0035E P0045E P0065E P0065E P0110E P0130E P0160E P0200E P0200E P0305E P0305E P0305E P0305E	18 21 24 26 27 27 37 38 45 58 63 75 86 117 146 166 194 236 280 425 490 726	# 12.5 12.5 12.5 12.5 12.5 12.5 12.5 13.7 13.7 13.7 13.7 13.7 13.7 13.7 13.7	Magnetics Size 5"H x 9.8"W x 7.5"D 7"H x 11"W x 9"D 7"H x 13"W x 9"D 1"H x 14.4"W x 10.5"D 1 x 14.4"W x 10.5"D 1 x 14.4"W x 13.5"D 1 x 14.4"W x 13.5"D 1 x 14.4"W x 13.5"D 1 x 14.2"W x 13.5"D 1 x 12.5"D 1 x 13.5"D 1 x 13.5"D 1 x 12.5"D 1 x 12.5"D	RC Panel Size	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2	SI S	Cat. PN. WAGA0002E WAGA0003E WAGA0007E WAGA0009E WAGA0012E WAGB0017E WAGB0022E WAGB0027E WAGB0025E WAGB0045E WAGB0045E WAGC0080E WAGC0110E WAGC0130E WAGC0160E WAGC0160E WAGD0250E WAGD0250E WAGD0365E WAGD0365E WAGD0365E WAGD0365E	Cab Type CAB-13V CAB-13V CAB-13V CAB-13V CAB-13V CAB-17V CAB-17C CAB-	Cat. PN. SWAWA0002E SWAWA0003E SWAWA0007E SWAWA0009E SWAWA0012E SWAWB0017E SWAWB0017E SWAWB0022E SWAWB0027E SWAWB0055E SWAWB0055E SWAWB0055E SWAWC0110E SWAWC0110E SWAWC0130E SWAWC0160E SWAWC0160E SWAWD0250E SWAWD0250E SWAWD0365E	Cab Type CAB-12C CAB-12C CAB-12C CAB-12C CAB-12C CAB-17C CAB-30C CAB-30C CAB-30C CAB-30C CAB-30C CAB-30C CAB-30C CAB-30C	57 67 95 120 155 177 219 253 295 323 489 535 650 806 1014 1157 1589 1315 1655 2237 2489 3098
Motor HP 1.5 2 3 5 7.5 10 15 20 25 30 40 50 60 75 100 125 150 200 250 300 350 400 450-500	Amps 2 3 5 7 9 12 17 22 27 35 45 55 65 80 110 130 160 200 250 305 365 415 515	SWAF SWAF SWAF SWAF SWAF SWAF SWAF SWAF	P0002E P0003E P0005E P0007E P0007E P0012E P0017E P0022E P0035E P0035E P0045E P0065E P0065E P0110E P0130E P0160E P0200E P0250E P0305E P0365E P0365E P0365E P0365E P0365E	18 21 24 26 27 27 37 38 45 58 63 75 86 117 146 166 194 236 280 425 490 726 750	# 12.5 12.5 12.5 12.5 12.5 12.5 11 11 11 11 13"H 13"H 13"H 13"H 13"H 13	Magnetics Size 5"H x 9.8"W x 7.5"D 7"H x 11"W x 9"D 1"H x 14.4"W x 10.5"D 1 x 14.4"W x 10.5"D 1 x 14.4"W x 13.5"D 1 x 14.4"W x 13.5"D 1 x 14.4"W x 13.5"D 1 x 12.2"W x 13.5"D 1 x 12.2"W x 17.8"D 1 H x 22"W x 17.8"D 1 H x 22"W x 17.8"D	RC Panel Size	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2	SI S	Cat. PN. WAGA0002E WAGA0003E WAGA0005E WAGA0007E WAGA0009E WAGA0012E WAGB0017E WAGB0022E WAGB0027E WAGB0027E WAGB0035E WAGB0045E WAGB0045E WAGC0110E WAGC0110E WAGC0130E WAGC0160E WAGC0160E WAGC0160E WAGD0250E WAGD0250E WAGD0250E WAGD0305E WAGD0305E WAGD0305E WAGD0315E	Cab Type CAB-13V CAB-13V CAB-13V CAB-13V CAB-13V CAB-17V CAB-17C CAB-	Cat. PN. SWAWA0002E SWAWA0003E SWAWA0007E SWAWA0007E SWAWA0009E SWAWA0012E SWAWB0017E SWAWB0027E SWAWB0027E SWAWB0035E SWAWB0055E SWAWB0055E SWAWC0110E SWAWC0110E SWAWC0130E SWAWC0160E SWAWC0160E SWAWC0160E SWAWD0250E SWAWD0250E SWAWD0250E SWAWD0305E SWAWD0305E SWAWD0305E SWAWD0315E	Cab Type CAB-12C CAB-12C CAB-12C CAB-12C CAB-12C CAB-17C CAB-17C CAB-17C CAB-17C CAB-17C CAB-17C CAB-17C CAB-17C CAB-17C CAB-30C	57 67 95 120 155 177 219 253 295 323 489 535 650 806 1014 1157 1589 1315 1655 2237 2489 3098 3229
Motor HP 1.5 2 3 5 7.5 10 15 20 25 30 40 50 60 75 100 125 150 200 250 300 350 400	2 3 5 7 9 12 17 22 27 35 45 55 65 80 110 130 160 200 250 305 365 415	SWAF SWAF SWAF SWAF SWAF SWAF SWAF SWAF	P0002E P0003E P0005E P0007E P0007E P0012E P0017E P0022E P0035E P0045E P0065E P0065E P0110E P0130E P0160E P0200E P0200E P0305E P0305E P0305E P0305E	18 21 24 26 27 27 37 38 45 58 63 75 86 117 146 166 194 236 280 425 490 726	# 12.5 12.5 12.5 12.5 12.5 12.5 11 11 11 11 13"H 13"H 13"H 13"H 13"H 13	Magnetics Size 5"H x 9.8"W x 7.5"D 7"H x 11"W x 9"D 7"H x 13"W x 9"D 1"H x 14.4"W x 10.5"D 1 x 14.4"W x 10.5"D 1 x 14.4"W x 13.5"D 1 x 14.4"W x 13.5"D 1 x 14.4"W x 13.5"D 1 x 14.2"W x 13.5"D 1 x 12.5"D 1 x 13.5"D 1 x 13.5"D 1 x 12.5"D 1 x 12.5"D	RC Panel Size	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2	SI SI SI SI SI SI SI SI	Cat. PN. WAGA0002E WAGA0003E WAGA0007E WAGA0009E WAGA0012E WAGB0017E WAGB0022E WAGB0027E WAGB0025E WAGB0045E WAGB0045E WAGC0080E WAGC0110E WAGC0130E WAGC0160E WAGC0160E WAGD0250E WAGD0250E WAGD0365E WAGD0365E WAGD0365E WAGD0365E	Cab Type CAB-13V CAB-13V CAB-13V CAB-13V CAB-13V CAB-17V CAB-17C CAB-	Cat. PN. SWAWA0002E SWAWA0003E SWAWA0007E SWAWA0009E SWAWA0012E SWAWB0017E SWAWB0017E SWAWB0022E SWAWB0027E SWAWB0055E SWAWB0055E SWAWB0055E SWAWC0110E SWAWC0110E SWAWC0130E SWAWC0160E SWAWC0160E SWAWD0250E SWAWD0250E SWAWD0365E	Cab Type CAB-12C CAB-12C CAB-12C CAB-12C CAB-12C CAB-17C CAB-30C CAB-30C CAB-30C CAB-30C CAB-30C CAB-30C CAB-30C CAB-30C	57 67 95 120 155 177 219 253 295 323 489 535 650 806 1014 1157 1589 1315 1655 2237 2489 3098

THE GLOBAL POWER QUALITY RESOURCE

Product Specifications - 2kHz-8kHz Sine Wave Filters

Refer to the Series A Sine Wave Filter User Manual for Detailed Specifications

Performance:

Harmonic Voltage Distortion when feeding a:

Transformer at full load and at 60Hz: 5% maximum Motor at full load and at 60Hz: 5% typical

Ratings:

Continuous Current Rating 100% RMS

Intermittent Current Ratings: 150 % for 1 minute

Minimum Inverter Switching Frequency:2kHzMaximum Inverter Switching Frequency:8kHzNominal Inverter Operating Frequency:60HzMinimum:0HzMaximum with de-rating:90Hz

Altitude without de-rating: 1000 meters

Maximum Motor Lead Length: 15,000 feet

Maximum ambient temperature: 50° C open filters

40° C enclosed filters
Insertion Loss:
10% of rated voltage maximum

Audible Noise:

Maximum Audible Noise Level at

Two Meters for Standard Configuration: 76dB-A

Output Compatibility/Loading: Conventional 3 phase motors. Standard step-up transformer with 4%

minimum output impedance, "No load" continuous operation

Current Derating 1.02-

1.05

1.00

0.95

0.85

0.75

3300

6600

Altitude (Feet)

9900

13200

16500

Current Derating Factor

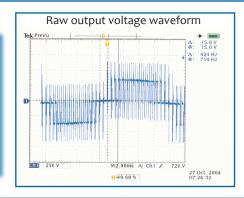
Agency Approvals, UL& cUL: Listed to UL508 type MX and CSA-C22.2 No 14-95, File E180243

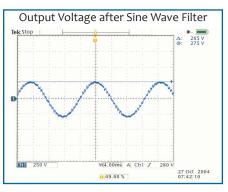
3HP to 1000HP, 120VAC to 600VAC, 50/60Hz Three Phase

Note: Short Circuit rating not required under Exception No.1 of UL508A SB4.2.1

Data subject to change without notice.

MTE Sine Wave Filters help eliminate the high dV/dt associated with inverter output waveforms in applications where the distance between the motor and the inverter is up to 15,000 feet.





Sine Wave Filter Current Derating

for Drive Output Frequency

0 70 80 90 Output Drive Frequency Hertz

Altitude Derating Curve

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