

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.

Typical applications include:	Model Number Code Configuration:	SW A X Y X <u>YY</u>
 HVAC Fans Deep Well Pumps on VFDs Multi Motor Common Drive Conveyer Systems Variable Frequency Power Linear Drive Motors Old Non Inverter Duty Motors used with Modern VFDs Underground Ventilation Critical Process Controls Systems 	Sine Wave filter Series Version. A, B, C, X "X" denotes non-standard configurations Mechanical Configuration P = Panel Mount G = General Purpose NEMA 1 or 2 W = NEMA 3R Indicates Physical Size: A, B, C, D, etc. (A is smallest) Current Rating (i.e. 0045 is 45 Amps) Voltage	
	A = 200 = 230VAC D = $280 = 480VAC$ E = 550 = 600VAC	

MTE Sine Wave Filter Selection Tabl D

A = 200 = 2500 AC, D = 500 = 4000 AC, L = 550 = 0000 AC

DRIVING POWER QUALITY MTE Corporation - Menomonee Falls, WI - 1-800-455-4MTE - www.mtecorp.com

	Selection Table Series A Sine wave Filter Technical Data - 200 & 230 VAC												
200 V Motor	230 V Motor	Filter Amps Open Panel Design Cat. PN. weight # Magnetics Size RC Panel Size Fig.			Open Panel Desig	NEMA 1	-2	NEMA 3	Watta				
Motor HP	HP		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	

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

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.

3R

Depth

_"

23"

26"

30"

40

40"

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

72"'H x 43"W x 31"D

Туре

CAB-13V

CAB-17V

CAB-12C

CAB-17C

CAB-26C

CAB-30C

CAB-42C

Weight

18#

27#

68#

84#

180#

319#

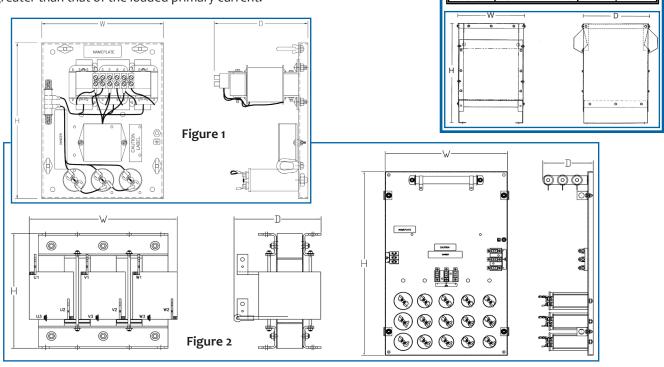
393#

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.



DRIVING POWER QUALITY MTE Corporation - Menomonee Falls, WI - 1-800-455-4MTE - www.mtecorp.com

380 V Motor	480 V Matar	Filter		Open Panel Design				NEMA		1-2	NEMA 3R		Watte		
Motor KW	Motor HP	Amps	Cat. I	PN.	weight #	Magnetics Size		RC Panel Size	F	ig.	Cat. PN.	Cab Type	Cat. PN.	Cab Type	Watts
0.75	1	2	SWAPO	002D	16	12.5"H x 9.8"W x 7.5	5"D			1	SWAGA0002D	CAB-13V	SWAWA0002D	CAB-12C	40
1.1	1.5	3	SWAPO		18					1	SWAGA0003D	CAB-13V	SWAWA0003D	CAB-12C	53
1.5 - 2.2	2 - 3	5	SWAPO		22	12.5"H x 9.8"W x 7.5				1	SWAGA0005D	CAB-13V	SWAWA0005D	CAB-12C	93
3	-	7	SWAPO		25	12.5"H x 9.8"W x 7.5"D -			1	SWAGA0007D	CAB-13V	SWAWA0007D	CAB-12C	110	
4	5	9	SWAPO		27	12.5"H x 9.8"W x 7.5"D -			1	SWAGA0009D	CAB-13V	SWAWA0009D	CAB-12C	128	
5.5	7.5	12	SWAPO		27	12.5"H x 9.8"W x 7.5"D		-	- 1		SWAGA0012D	CAB-13V	SWAWA0012D	CAB-12C	162
7.5	10	17	SWAP0017D SWAP0022D		30	12.5"H x 9.8"W x 7.5"D - 17"H x 11"W x 9"D -			1	SWAGA0017D	CAB-13V	SWAWA0017D	CAB-12C	151	
11	15 20	22 27	SWAP0022D SWAP0027D		37					1	SWAGB0022D	CAB-17V CAB-17V	SWAWB0022D SWAWB0027D	CAB-17C CAB-17C	229 216
- 15	20	35	SWAP0027D SWAP0035D		38 51	17"H x 11"W x 9"D - 17"H x 11"W x 9"D -		-		1 SWAGB0027D 1 SWAGB0035D		CAB-17V CAB-17V	SWAWB0027D SWAWB0035D	CAB-17C CAB-17C	210
18.5-22	30	45	SWAP0035D SWAP0045D		57	17"H x 11"W x 9"E		-		1	SWAGB0035D SWAGB0045D	CAB-17V CAB-17V	SWAWB0035D SWAWB0045D	CAB-17C CAB-17C	360
-	40	55	SWAPO		67	17"H x 11"W x 9"E				1	SWAGB0045D SWAGB0055D	CAB-17V	SWAWB0045D SWAWB0055D	CAB-17C	457
30	50	65	SWAPO		77	17"H x 13"W x 9"E	_			1	SWAGB0065D	CAB-17V	SWAWB0065D	CAB-17C	454
37	60	80	SWAPO		86	17"H x 13"W x 9"E		-		1	SWAGC0080D	CAB-26C	SWAWC0080D	CAB-26C	596
45-55	75	110	SWAPO		117	13"H x 14.4"W x 10.5		20"H x 11"W x 7.6"		2	SWAGC0110D	CAB-26C	SWAWC0110D	CAB-26C	878
	100	130	SWAPO		134	13"H x 14.4"W x 10.8		20"H x 11"W x 7.6"	_	2	SWAGC0130D	CAB-26C	SWAWC0130D	CAB-26C	836
75-90	125	160	SWAPO		163	13"H x 14.4"W x 11.3		20"H x 11"W x 7.6"		2	SWAGC0160D	CAB-26C	SWAWC0160D	CAB-26C	996
110	150	200	SWAPO		188	13"H x 14.4"W x 11.5	5"D	27"H x 17"W x 7.6"		2	SWAGD0200D	CAB-30C	SWAWD0200D	CAB-30C	1286
132	200	250	SWAPO	250D	233	13"H x 14.4"W x 13.5	5"D	27"H x 17"W x 7.6"	D	2	SWAGD0250D	CAB-30C	SWAWD0250D	CAB-30C	1424
160	250	305	SWAPO	305D	266	13"H x 14.4"W x 15'	D	27"H x 17"W x 7.6"	D	2	SWAGD0305D	CAB-30C	SWAWD0305D	CAB-30C	1701
185-200	300	365	SWAPO		425	17"H x 22"W x 12.5'		27"H x 17"W x 7.6"		2	SWAGD0365D	CAB-30C	SWAWD0365D	CAB-30C	1841
-	350	415	SWAPO		500	17"H x 22"W x 15.5'		27"H x 17"W x 7.6"		2	SWAGD0415D	CAB-30C	SWAWD0415D	CAB-30C	2021
250	400-450	515	SWAPO		650	17"H x 22"W x 15.5'		27"H x 17"W x 7.6"		2	SWAGD0515D	CAB-30C	SWAWD0515D	CAB-30C	2944
315	500	600	SWAPO		825	17"H x 22"W x 22"I		38"H x 17"W x 7.3"		2	SWAGE0600D	CAB-42C	SWAWE0600D	CAB-42C	3698
355-400	600	720	SWAP0720D 1125 28.5"H x 33.5"W x 19.5"D 38"H x 17"W x 7.3"D 2						2	SWAGE0720D	CAB-42C	SWAWE0720D	CAB-42C	4133	
600 V Motor	Filter				Оре	en Panel Desigr	ı				NEMA 1	-2	NEMA 3	ßR	Watts
Motor HP	Filter Amps		. PN.	weight #	- #	Magnetics Size		RC Panel Size	Fig.		Cat. PN.	Cab Type	Cat. PN.	Cab Type	Watts
Motor HP 1.5	Amps 2	SWAF	20002E	18	# 12.5	Magnetics Size 5"H x 9.8"W x 7.5"D		RC Panel Size -	1	S	Cat. PN. WAGA0002E	Cab Type CAB-13V	Cat. PN. SWAWA0002E	Cab Type CAB-12C	57
Motor HP 1.5 2	Amps 2 3	SWAF SWAF	20002E 20003E	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		RC Panel Size - -	1	S 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	Amps 2 3 5	SWAF Swaf Swaf	20002E 20003E 20005E	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		RC Panel Size - - -	1	S S S	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	Amps 2 3 5 7	SWAF SWAF SWAF SWAF	20002E 20003E 20005E 20007E	18 21 24 26	# 12.9 12.9 12.9 12.9	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 5"H x 9.8"W x 7.5"D		RC Panel Size - - - -	1	S S S S	Cat. PN. WAGA0002E WAGA0003E WAGA0005E WAGA0007E	Cab Type 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	Amps 2 3 5 7 9	SWAF SWAF SWAF SWAF SWAF	20002E 20003E 20005E 20007E 20009E	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 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 5"H x 9.8"W x 7.5"D		RC Panel Size - - - - -	1 1 1 1	S S S S S	Cat. PN. WAGA0002E WAGA0003E WAGA0005E WAGA0007E WAGA0009E	Cab Type CAB-13V 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	Amps 2 3 5 7 9 12	SWAF SWAF SWAF SWAF SWAF	20002E 20003E 20005E 20007E 20009E 20009E	18 21 24 26 27 27	# 12.! 12.! 12.! 12.! 12.! 12.!	Magnetics Size 5"H x 9.8"W x 7.5"D 5"H x 9.8"W x 7.5"D		RC Panel Size	1 1 1 1	S S S S S	Cat. PN. WAGA0002E WAGA0003E WAGA0005E WAGA0007E WAGA0009E WAGA0012E	Cab Type CAB-13V CAB-13V 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	57 67 95 120 155 177
Motor HP 1.5 2 3 5 7.5 10 15	Amps 2 3 5 7 9 12 17	SWAF SWAF SWAF SWAF SWAF SWAF	20002E 20003E 20005E 20007E 20009E 20012E 20017E	18 21 24 26 27 27 27 37	# 12.! 12.! 12.! 12.! 12.! 12.! 12.!	Magnetics Size 5"H x 9.8"W x 7.5"D 5"H x 9.8"W x 7.5"D 7"H x 11"W x 9"D		- - - - - -	1 1 1 1 1	S S S S S S S	Cat. PN. WAGA0002E WAGA0003E WAGA0005E WAGA0007E WAGA0009E WAGA0012E WAGB0017E	Cab Type CAB-13V CAB-13V CAB-13V CAB-13V CAB-13V CAB-13V CAB-13V CAB-13V	Cat. PN. SWAWA0002E SWAWA0003E SWAWA0005E SWAWA0007E SWAWA0009E SWAWA0012E SWAWB0017E	Cab Type CAB-12C 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	Amps 2 3 5 7 9 12 17 22	SWAF SWAF SWAF SWAF SWAF SWAF SWAF	20002E 20003E 20005E 20007E 20009E 20009E 20012E 20017E 20022E	18 21 24 26 27 27 37 38	# 12. 12. 12. 12. 12. 12. 12. 12. 12. 12.	Magnetics Size 5"H x 9.8"W x 7.5"D 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		RC Panel Size	1 1 1 1	S S S S S S S S	Cat. PN. WAGA0002E WAGA0003E WAGA0005E WAGA0007E WAGA0009E WAGA0012E WAGB0017E WAGB0022E	Cab Type CAB-13V CAB-17V CAB-17V	Cat. PN. SWAWA0002E SWAWA0003E SWAWA0005E SWAWA0007E SWAWA0009E SWAWA0012E SWAWB0017E SWAWB0012E	CAB-12C 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	SWAF SWAF SWAF SWAF SWAF SWAF SWAF	20002E 20003E 20005E 20007E 20009E 20012E 20017E	18 21 24 26 27 27 37 38 45	# 12.5 12.	Magnetics Size 5"H x 9.8"W x 7.5"D 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	S S S S S S S S S	Cat. PN. WAGA0002E WAGA0003E WAGA0005E WAGA0007E WAGA0009E WAGA0012E WAGB0017E WAGB0022E WAGB0027E	Cab Type CAB-13V CAB-13V CAB-13V CAB-13V CAB-13V CAB-13V CAB-13V CAB-13V	Cat. PN. SWAWA0002E SWAWA0003E SWAWA0005E SWAWA0007E SWAWA0009E SWAWA0012E SWAWB0017E	Cab Type CAB-12C 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 27	SWAF SWAF SWAF SWAF SWAF SWAF SWAF SWAF	20002E 20003E 20005E 20007E 20009E 20012E 20017E 20022E 20027E	18 21 24 26 27 27 37 38	# 12.! 11.! 11.	Magnetics Size 5"H x 9.8"W x 7.5"D 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	S S S S S S S S S S S S	Cat. PN. WAGA0002E WAGA0003E WAGA0005E WAGA0007E WAGA0009E WAGA0012E WAGB0017E WAGB0022E	Cab Type CAB-13V CAB-17V CAB-17V CAB-17V	Cat. PN. SWAWA0002E SWAWA0003E SWAWA0005E SWAWA0007E SWAWA0009E SWAWA0012E SWAWB0017E SWAWB0017E SWAWB0027E	CAB-12C 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	Amps 2 3 5 7 9 12 17 22 27 22 35	SWAF SWAF SWAF SWAF SWAF SWAF SWAF SWAF	20002E 20003E 20005E 20007E 20009E 20012E 20017E 20022E 20027E 20027E	18 21 24 26 27 27 37 38 45 58	# 12. 12. 12. 12. 12. 12. 12. 12.	Magnetics Size 5"H x 9.8"W x 7.5"D 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 7"H x 11"W x 9"D		- - - - - - - - - - -	1 1 1 1 1 1 1 1	S S S S S S S S S S S S	Cat. PN. WAGA0002E WAGA0003E WAGA0005E WAGA0007E WAGA0009E WAGA0012E WAGB0017E WAGB0022E WAGB0027E WAGB0035E	Cab Type CAB-13V CAB-13V CAB-13V 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 SWAWB0035E	Cab Type 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	Amps 2 3 5 7 9 12 17 22 27 22 35 45	SWAR SWAR SWAR SWAR SWAR SWAR SWAR SWAR	20002E 20003E 20005E 20007E 20009E 20012E 20017E 20022E 20027E 20035E 20035E	18 21 24 26 27 27 37 38 45 58 63	# 12.5 12.5 12.5 12.5 12.5 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 7"H x 11"W x 9"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 7"H x 11"W x 9"D		- - - - - - - - - - - - - - - - - - -	1 1 1 1 1 1 1 1 1	S S S S S S S S S S S S S	Cat. PN. WAGA0002E WAGA0003E WAGA0005E WAGA0009E WAGA0009E WAGA0012E WAGB0017E WAGB0022E WAGB0027E WAGB0035E WAGB0045E	Cab Type CAB-13V CAB-13V CAB-13V 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	Cab Type 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
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Selection Table Series A Sine Wave Filter Technical Data - 380, 480, & 600VAC

DRIVING POWER QUALITY MTE Corporation - Menomonee Falls, WI - 1-800-455-4MTE - www.mtecorp.com

Product Specifications - 2kHz-8kHz Sine Wave Filters

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

5% maximum

5% typical

100% RMS

2kHz

8kHz

60Hz

0Hz

90Hz

1000 meters

15,000 feet

50° C open filters 40° C enclosed filters

10% of rated voltage maximum

150 % for 1 minute

Performance:

Harmonic Voltage Distortion when feeding a:

Transformer at full load and at 60Hz: Motor at full load and at 60Hz:

Ratings:

Continuous Current Rating Intermittent Current Ratings: Minimum Inverter Switching Frequency: Maximum Inverter Switching Frequency: Nominal Inverter Operating Frequency: Minimum: Maximum with de-rating: Altitude without de-rating:

Maximum Motor Lead Length: Maximum ambient temperature:

Insertion Loss:

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

1.05-1.00-0.95-0.90-0.85-0.80-0.75-0.70-0.65-0.60-**Current Derating**

1.05

1.00

0.95

0.90

0.85

0.80 0.75

0.70

3300

6600

Altitude (Feet)

9900

13200

16500

Current Derating Factor

50

Sine Wave Filter Current Derating

for Drive Output Frequency

o 70 80 90 Output Drive Frequency Hertz

Altitude Derating Curve

90

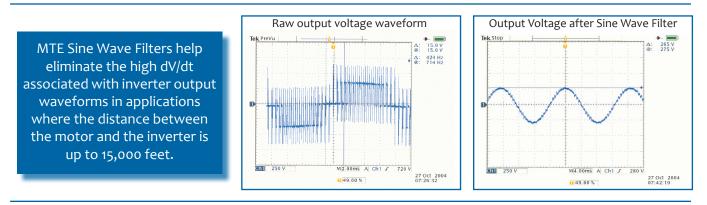
100

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.



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Form SW-PSL-E June 2012 Supersedes Form SW-PSL-E October 2011





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