

# SineWave Guardian®

## Product Selector



- **Increases motor life**
- **Easy to integrate, install and service**
- **Operates in high ambient temperatures**
- **High performance and reliability**
- **Three-year warranty**

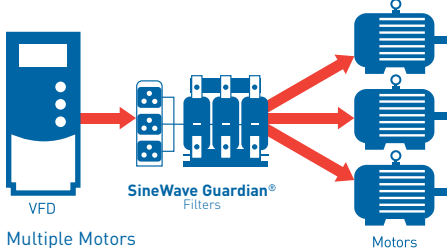
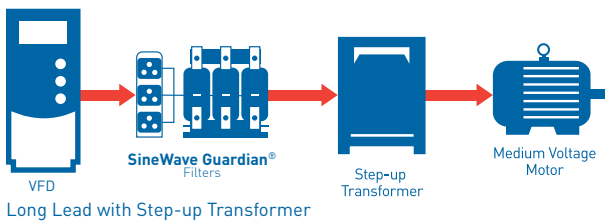
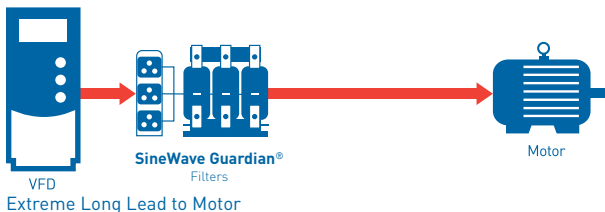
## Quality motor protection for miles - literally.

Motor protection and power quality don't have to be a mystery. MTE makes it easy. Case in point: our SineWave Guardian® Filter. This best-in-class filter delivers unequalled performance in cleaning the PWM waveforms generated by Variable Frequency Drives (VFDs). It virtually eliminates high frequency content and voltage peaks, thereby reducing motor heating to give you extended motor life – and less downtime. The SineWave Guardian also offers incredible reliability and durability. It is more efficient and tolerates higher ambient temperatures, making it ideal for a variety of applications from steel mills to oil fields. Its modular design and smaller footprint make it easier to integrate and install. It all adds up to the best SineWave Filter, and the best value on the market today.

# Improve efficiency, improve motor life, and improve your bottom line with our new SineWave Guardian®.

SineWave Guardian® Filters transform the output of Variable Frequency Drives (VFDs) to a near perfect sinusoidal waveform for the best level of motor protection. MTE's unique, patented design offers higher performance with smaller size and better efficiency than traditional LC Filters.

## Application Configurations:



## SineWave Guardian®



## How to properly size your filter

- Determine voltage and frequency requirements
- Reference motor nameplate to determine motor HP or kW and Full Load Amps
- Verify motor meets inverter duty standards per NEMA MG1 Section 31
- Select filter based on Motor Full Load Amps
  - Do not exceed filter's maximum current rating (amps)
- Specify enclosure style
  - Open (No enclosure)
  - NEMA 1/2 (General Purpose Enclosure)
  - NEMA 3R (Outdoor Enclosure)
- Determine derating requirements
  - Reference Performance Specifications table

## Performance Specifications

Service Load Condition	Conventional 3 phase motors Standard step-up transformer optional
Input Voltage	208V – 600V +/- 10%
Current Range	2A – 1500A (.75 HP – 1200 HP)
Harmonic Voltage Distortion	5% maximum @ 2kHz
Inverter Switching Frequency	2kHz to 8kHz
Inverter Operating Frequency	6Hz to 75Hz; >75Hz to 120Hz with derating
Maximum Ambient Temperature	-40°C to +60°C modular filter -40°C to +55°C enclosed filter -40°C to +90°C storage
Insertion Loss (Voltage)	6% maximum @ 60Hz
Efficiency	>98%
Altitude Without Derating	3,300 feet above sea level
Maximum Motor Lead Length	15,000 feet
Relative Humidity	0% to 95% non-condensing
Current Rating	100% RMS continuous; 150% for 1 minute intermittent

## Understanding the SineWave Guardian® Part Number:

SWG X \_ \_ \_ X

SineWave Guardian®

### Enclosure Type

M=Open Magnetics (No Enclosure)  
G=General Purpose (NEMA 1/2)  
W=Weather (NEMA 3R)

### Current Rating

0002 is 2 Amps  
0720 is 720 Amps

### Voltage Frequency Code

A (208V – 240V)  
D (380V – 480V)  
E (600V)

## 208V – 240V 75Hz

Motor (Ref Only)		Filter Amps Rating	MTE Part Number	Enclosure Type	Filter Dimensions (H x W x D)		Approx Weight		Ref Fig	Watts Loss	Capacitor/Capacitor Panel Assembly Dimensions (H x W x D)		Qty Req'd	Ref Fig
208V HP	240V HP				Inches	Millimeters	Lbs	Kgs			Inches	Millimeters		
2	3	9	SWG0009A	OPEN	6.6 x 8.0 x 4.8	168 x 203 x 122	11	5	7	63	7.5 x 3.0	191 x 76	1	1
			SWG0009A	NEMA 1/2	13.2 x 13.0 x 13.1	335 x 330 x 333	28	13	3		Preinstalled in cabinet			
			SWG0009A	NEMA 3R	24.0 x 12.5 x 22.9	610 x 318 x 582	69	31	5		Preinstalled in cabinet			
3	4	12	SWG0012A	OPEN	6.7 x 8.0 x 5.1	170 x 203 x 130	14	6	7	75	7.5 x 3.0	191 x 76	1	1
			SWG0012A	NEMA 1/2	13.2 x 13.0 x 13.1	335 x 330 x 333	30	14	3		Preinstalled in cabinet			
			SWG0012A	NEMA 3R	24.0 x 12.5 x 22.9	610 x 318 x 582	69	31	5		Preinstalled in cabinet			
5	5.5	17	SWG0017A	OPEN	6.7 x 8.0 x 5.1	170 x 203 x 130	14	6	7	101	7.5 x 3.9	191 x 99	1	1
			SWG0017A	NEMA 1/2	13.2 x 13.0 x 13.1	335 x 330 x 333	30	14	3		Preinstalled in cabinet			
			SWG0017A	NEMA 3R	24.0 x 12.5 x 22.9	610 x 318 x 582	69	31	5		Preinstalled in cabinet			
5.5	7.5	22	SWG0022A	OPEN	6.6 x 8.0 x 5.4	168 x 203 x 137	15	7	7	112	8.3 x 3.0	211 x 76	1	1
			SWG0022A	NEMA 1/2	13.2 x 13.0 x 13.1	335 x 330 x 333	32	15	3		Preinstalled in cabinet			
			SWG0022A	NEMA 3R	24.0 x 12.5 x 22.9	610 x 318 x 582	71	32	5		Preinstalled in cabinet			
7.5	10	30	SWG0030A	OPEN	7.5 x 9.0 x 4.8	191 x 229 x 122	18	8	7	100	8.3 x 3.0	211 x 76	1	1
			SWG0030A	NEMA 1/2	13.2 x 13.0 x 13.1	335 x 330 x 333	34	15	3		Preinstalled in cabinet			
			SWG0030A	NEMA 3R	24.0 x 12.5 x 22.9	610 x 318 x 582	73	33	5		Preinstalled in cabinet			
10 - 12.5	15	45	SWG0045A	OPEN	8.7 x 10.5 x 6.7	221 x 267 x 170	28	13	7	138	8.3 x 4.6	211 x 117	1	1
			SWG0045A	NEMA 1/2	24.0 x 17.0 x 18.5	610 x 432 x 470	78	35	4		Preinstalled in cabinet			
			SWG0045A	NEMA 3R	24.0 x 12.5 x 22.9	610 x 318 x 582	85	39	5		Preinstalled in cabinet			
15	20	55	SWG0055A	OPEN	9.0 x 10.5 x 7.4	229 x 267 x 188	32	15	8	162	8.3 x 4.6	211 x 117	1	1
			SWG0055A	NEMA 1/2	24.0 x 17.0 x 18.5	610 x 432 x 470	80	36	4		Preinstalled in cabinet			
			SWG0055A	NEMA 3R	24.0 x 12.5 x 22.9	610 x 318 x 582	87	40	5		Preinstalled in cabinet			
20	25	70	SWG0070A	OPEN	9.0 x 10.5 x 7.9	229 x 267 x 201	34	15	8	192	8.3 x 3.0	211 x 76	1	1
			SWG0070A	NEMA 1/2	24.0 x 17.0 x 18.5	610 x 432 x 470	82	37	4		Preinstalled in cabinet			
			SWG0070A	NEMA 3R	24.0 x 12.5 x 22.9	610 x 318 x 582	90	41	5		Preinstalled in cabinet			
25	30	85	SWG0085A	OPEN	8.7 x 10.5 x 7.2	221 x 267 x 183	38	17	8	201	8.3 x 3.0	211 x 76	1	1
			SWG0085A	NEMA 1/2	24.0 x 17.0 x 18.5	610 x 432 x 470	86	39	4		Preinstalled in cabinet			
			SWG0085A	NEMA 3R	24.0 x 12.5 x 22.9	610 x 318 x 582	93	42	5		Preinstalled in cabinet			
30	40	110	SWG0110A	OPEN	8.7 x 10.5 x 8.9	221 x 267 x 226	53	24	8	226	8.3 x 4.0	211 x 102	1	1
			SWG0110A	NEMA 1/2	24.0 x 17.0 x 18.5	610 x 432 x 470	101	46	4		Preinstalled in cabinet			
			SWG0110A	NEMA 3R	24.0 x 12.5 x 22.9	610 x 318 x 582	109	49	5		Preinstalled in cabinet			
40	50	135	SWG0135A	OPEN	11.0 x 12.0 x 9.3	279 x 305 x 236	72	33	9	299	8.3 x 3.0	211 x 76	1	1
			SWG0135A	NEMA 1/2	33.9 x 18.3 x 20.9	861 x 465 x 531	148	67	6		Preinstalled in cabinet			
			SWG0135A	NEMA 3R	33.9 x 18.3 x 26.0	861 x 465 x 660	159	72	6		Preinstalled in cabinet			
50	60	160	SWG0160A	OPEN	10.6 x 12.0 x 9.7	269 x 305 x 246	74	34	9	303	8.3 x 4.6	211 x 117	1	1
			SWG0160A	NEMA 1/2	33.9 x 18.3 x 20.9	861 x 465 x 531	150	68	6		Preinstalled in cabinet			
			SWG0160A	NEMA 3R	33.9 x 18.3 x 26.0	861 x 465 x 660	161	73	6		Preinstalled in cabinet			
60	75	200	SWG0200A	OPEN	10.9 x 12.0 x 11.4	277 x 305 x 290	120	54	9	387	8.3 x 4.0	211 x 102	1	1
			SWG0200A	NEMA 1/2	33.9 x 18.3 x 20.9	861 x 465 x 531	199	90	6		Preinstalled in cabinet			
			SWG0200A	NEMA 3R	33.9 x 18.3 x 26.0	861 x 465 x 660	209	95	6		Preinstalled in cabinet			
75	100	250	SWG0250A	OPEN	10.5 x 12.0 x 11.2	267 x 305 x 284	110	50	9	374	8.3 x 3.0	211 x 76	1	1
			SWG0250A	NEMA 1/2	33.9 x 18.3 x 20.9	861 x 465 x 531	189	86	6		8.3 x 4.6	211 x 117	1	
			SWG0250A	NEMA 3R	33.9 x 18.3 x 26.0	861 x 465 x 660	199	90	6		Preinstalled in cabinet			
100	125	320	SWG0320A	OPEN	14.2 x 15.3 x 11.8	361 x 389 x 300	153	69	10	637	7.4 x 16.4 x 7.6	188 x 417 x 193	1	2
			SWG0320A	NEMA 1/2	51.3 x 27.7 x 24.9	1303 x 704 x 632	321	146	6		Preinstalled in cabinet			
			SWG0320A	NEMA 3R	51.3 x 27.7 x 30.0	1303 x 704 x 762	334	151	6		Preinstalled in cabinet			

Note: Weights and dimensions are for reference only. Please visit [mtecorp.com](http://mtecorp.com) for detailed information.

# SINEWAVE GUARDIAN® SELECTION TABLES

380V – 480V 75Hz														
Motor (Ref Only)		Filter Amps Rating	MTE Part Number	Enclosure Type	Filter Dimensions (H x W x D)		Approx Weight		Ref Fig	Watts Loss	Capacitor/Capacitor Panel Assembly Dimensions (H x W x D)		Qty Req'd	Ref Fig
380V kW	480V HP				Inches	Millimeters	Lbs	Kgs			Inches	Millimeters		
0.55	0.75	2	SWG0002D	OPEN	4.9 x 4.4 x 2.6	124 x 112 x 66	5	2	7	25	7.5 x 3.0	191 x 76	1	1
			SWG0002D	NEMA 1/2	13.2 x 13.0 x 13.1	335 x 330 x 333	19	9	3		Preinstalled in cabinet			
			SWG0002D	NEMA 3R	24.0 x 12.5 x 22.9	610 x 318 x 582	62	28	5		Preinstalled in cabinet			
0.75	1.5	3	SWG0003D	OPEN	4.9 x 4.4 x 3.3	124 x 112 x 84	7	3	7	45	7.5 x 3.0	191 x 76	1	1
			SWG0003D	NEMA 1/2	13.2 x 13.0 x 13.1	335 x 330 x 333	21	10	3		Preinstalled in cabinet			
			SWG0003D	NEMA 3R	24.0 x 12.5 x 22.9	610 x 318 x 582	64	29	5		Preinstalled in cabinet			
2.2	3	5	SWG0005D	OPEN	6.6 x 8.0 x 4.8	168 x 203 x 122	11	5	7	75	7.5 x 3.0	191 x 76	1	1
			SWG0005D	NEMA 1/2	13.2 x 13.0 x 13.1	335 x 330 x 333	25	11	3		Preinstalled in cabinet			
			SWG0005D	NEMA 3R	24.0 x 12.5 x 22.9	610 x 318 x 582	68	31	5		Preinstalled in cabinet			
3	4	7	SWG0007D	OPEN	6.7 x 8.0 x 5.1	170 x 203 x 130	13	6	7	91	7.5 x 3.0	191 x 76	1	1
			SWG0007D	NEMA 1/2	13.2 x 13.0 x 13.1	335 x 330 x 333	27	12	3		Preinstalled in cabinet			
			SWG0007D	NEMA 3R	24.0 x 12.5 x 22.9	610 x 318 x 582	61	28	5		Preinstalled in cabinet			
4	5.5	9	SWG0009D	OPEN	6.7 x 8.0 x 5.1	170 x 203 x 130	14	6	7	97	7.5 x 3.0	191 x 76	1	1
			SWG0009D	NEMA 1/2	13.2 x 13.0 x 13.1	335 x 330 x 333	28	13	3		Preinstalled in cabinet			
			SWG0009D	NEMA 3R	24.0 x 12.5 x 22.9	610 x 318 x 582	54	24	5		Preinstalled in cabinet			
5.5	7.5	12	SWG0012D	OPEN	6.7 x 8.0 x 5.4	170 x 203 x 137	15	7	7	127	7.5 x 3.0	191 x 76	1	1
			SWG0012D	NEMA 1/2	13.2 x 13.0 x 13.1	335 x 330 x 333	29	13	3		Preinstalled in cabinet			
			SWG0012D	NEMA 3R	24.0 x 12.5 x 22.9	610 x 318 x 582	70	32	5		Preinstalled in cabinet			
7.5	10	17	SWG0017D	OPEN	7.5 x 9.0 x 4.8	191 x 229 x 122	20	9	7	130	7.5 x 3.0	191 x 76	1	1
			SWG0017D	NEMA 1/2	13.2 x 13.0 x 13.1	335 x 330 x 333	34	15	3		Preinstalled in cabinet			
			SWG0017D	NEMA 3R	24.0 x 12.5 x 22.9	610 x 318 x 582	76	34	5		Preinstalled in cabinet			
11	15	22	SWG0022D	OPEN	8.7 x 10.5 x 6.7	221 x 267 x 170	32	15	7	135	7.5 x 3.0	191 x 76	1	1
			SWG0022D	NEMA 1/2	24.0 x 17.0 x 18.5	610 x 432 x 470	79	36	4		Preinstalled in cabinet			
			SWG0022D	NEMA 3R	24.0 x 12.5 x 22.9	610 x 318 x 582	87	39	5		Preinstalled in cabinet			
-	20	27	SWG0027D	OPEN	8.7 x 10.5 x 6.7	221 x 267 x 170	35	16	8	140	7.5 x 3.0	191 x 76	1	1
			SWG0027D	NEMA 1/2	24.0 x 17.0 x 18.5	610 x 432 x 470	82	37	4		Preinstalled in cabinet			
			SWG0027D	NEMA 3R	24.0 x 12.5 x 22.9	610 x 318 x 582	90	41	5		Preinstalled in cabinet			
18.5	25	35	SWG0035D	OPEN	8.9 x 10.5 x 6.7	226 x 267 x 170	39	18	8	210	7.5 x 3.9	191 x 99	1	1
			SWG0035D	NEMA 1/2	24.0 x 17.0 x 18.5	610 x 432 x 470	87	39	4		Preinstalled in cabinet			
			SWG0035D	NEMA 3R	24.0 x 12.5 x 22.9	610 x 318 x 582	94	43	5		Preinstalled in cabinet			
22	30	45	SWG0045D	OPEN	8.8 x 10.5 x 7.2	224 x 267 x 183	40	18	8	225	7.5 x 3.9	191 x 99	1	1
			SWG0045D	NEMA 1/2	24.0 x 17.0 x 18.5	610 x 432 x 470	90	41	4		Preinstalled in cabinet			
			SWG0045D	NEMA 3R	24.0 x 12.5 x 22.9	610 x 318 x 582	98	44	5		Preinstalled in cabinet			
-	40	55	SWG0055D	OPEN	8.8 x 10.5 x 6.7	224 x 267 x 170	54	24	9	301	8.0 x 3.9	203 x 99	1	1
			SWG0055D	NEMA 1/2	24.0 x 17.0 x 18.5	610 x 432 x 470	101	46	4		Preinstalled in cabinet			
			SWG0055D	NEMA 3R	24.0 x 12.5 x 22.9	610 x 318 x 582	109	49	5		Preinstalled in cabinet			
30	50	65	SWG0065D	OPEN	10.7 x 12.0 x 8.6	272 x 305 x 218	59	27	9	310	8.0 x 3.9	203 x 99	1	1
			SWG0065D	NEMA 1/2	33.9 x 18.3 x 20.9	861 x 465 x 531	136	62	6		Preinstalled in cabinet			
			SWG0065D	NEMA 3R	33.9 x 18.3 x 26.0	861 x 465 x 660	143	65			Preinstalled in cabinet			
37	60	80	SWG0080D	OPEN	10.8 x 12.0 x 9.0	274 x 305 x 229	75	34	9	387	8.3 x 4.6	211 x 117	1	1
			SWG0080D	NEMA 1/2	33.9 x 18.3 x 20.9	861 x 465 x 531	150	68	6		Preinstalled in cabinet			
			SWG0080D	NEMA 3R	33.9 x 18.3 x 26.0	861 x 465 x 660	157	71			Preinstalled in cabinet			
55	75	110	SWG0110D	OPEN	10.7 x 12.0 x 10.5	272 x 305 x 267	105	48	9	395	8.3 x 4.6	211 x 117	1	1
			SWG0110D	NEMA 1/2	33.9 x 18.3 x 20.9	861 x 465 x 531	180	82	6		Preinstalled in cabinet			
			SWG0110D	NEMA 3R	33.9 x 18.3 x 26.0	861 x 465 x 660	187	85			Preinstalled in cabinet			

Note: Weights and dimensions are for reference only. Please visit [mtecorp.com](http://mtecorp.com) for detailed information.

## 380V – 480V 75Hz

Motor (Ref Only)		Filter Amps Rating	MTE Part Number	Enclosure Type	Filter Dimensions (H x W x D)		Approx Weight		Ref Fig	Watts Loss	Capacitor/Capacitor Panel Assembly Dimensions (H x W x D)		Qty Req'd	Ref Fig
380V kW	480V HP				Inches	Millimeters	Lbs	Kgs			Inches	Millimeters		
-	100	130	SWG0130D	OPEN	10.7 x 12.0 x 11.5	272 x 305 x 292	108	49	10	420	8.3 x 4.6	211 x 117	1	1
			SWG0130D	NEMA 1/2	33.9 x 18.3 x 20.9	861 x 465 x 531	182	83	6		Preinstalled in cabinet			
			SWG0130D	NEMA 3R	33.9 x 18.3 x 26.0	861 x 465 x 660	189	86	6					
75	125	160	SWG0160D	OPEN	14.5 x 15.3 x 11.3	368 x 389 x 287	160	73	10	595	6.7 x 16.4 x 7.6	170 x 417 x 193	1	2
			SWG0160D	NEMA 1/2	51.3 x 27.7 x 24.9	1303 x 704 x 632	327	148	6		Preinstalled in cabinet			
			SWG0160D	NEMA 3R	51.3 x 27.7 x 30.0	1303 x 704 x 762	340	154	6					
110	150	200	SWG0200D	OPEN	14.5 x 15.3 x 14.8	368 x 389 x 376	166	75	10	650	6.7 x 16.4 x 7.6	170 x 417 x 193	1	2
			SWG0200D	NEMA 1/2	51.3 x 27.7 x 24.9	1303 x 704 x 632	336	152	6		Preinstalled in cabinet			
			SWG0200D	NEMA 3R	51.3 x 27.7 x 30.0	1303 x 704 x 762	349	158	6					
132	200	250	SWG0250D	OPEN	14.5 x 15.3 x 13.8	368 x 389 x 351	220	100	10	775	6.9 x 16.3 x 7.6	175 x 414 x 193	1	2
			SWG0250D	NEMA 1/2	51.3 x 27.7 x 24.9	1303 x 704 x 632	381	173	6		Preinstalled in cabinet			
			SWG0250D	NEMA 3R	51.3 x 27.7 x 30.0	1303 x 704 x 762	395	179	6					
160	250	305	SWG0305D	OPEN	14.6 x 15.3 x 14.8	371 x 389 x 376	260	118	11	945	7.4 x 16.4 x 7.6	188 x 417 x 193	1	2
			SWG0305D	NEMA 1/2	51.3 x 27.7 x 24.9	1303 x 704 x 632	430	195	6		Preinstalled in cabinet			
			SWG0305D	NEMA 3R	51.3 x 27.7 x 30.0	1303 x 704 x 762	443	201	6					
200	300	365	SWG0365D	OPEN	14.6 x 15.3 x 15.2	371 x 389 x 386	310	141	11	1,050	8.3 x 16.4 x 7.6	211 x 417 x 193	1	2
			SWG0365D	NEMA 1/2	51.3 x 27.7 x 24.9	1303 x 704 x 632	480	218	6		Preinstalled in cabinet			
			SWG0365D	NEMA 3R	51.3 x 27.7 x 30.0	1303 x 704 x 762	493	224	6					
220	350	415	SWG0415D	OPEN	14.6 x 15.3 x 15.2	371 x 389 x 386	326	148	11	1,137	8.3 x 16.4 x 7.6	211 x 417 x 193	1	2
			SWG0415D	NEMA 1/2	51.3 x 27.7 x 24.9	1303 x 704 x 632	496	225	6		Preinstalled in cabinet			
			SWG0415D	NEMA 3R	51.3 x 27.7 x 30.0	1303 x 704 x 762	509	231	6					
280	450	515	SWG0515D	OPEN	15.0 x 15.3 x 16.2	381 x 389 x 411	355	161	12	1,235	9.9 x 16.4 x 7.6	251 x 417 x 193	1	2
			SWG0515D	NEMA 1/2	87.6 x 43.7 x 31.1	2225 x 1110 x 790	764	347	6		Preinstalled in cabinet			
			SWG0515D	NEMA 3R	87.6 x 43.7 x 40.1	2225 x 1110 x 1019	800	363	6					
335	500	600	SWG0600D	OPEN	18.3 x 24.0 x 14.6	465 x 610 x 371	483	219	12	2,225	9.9 x 16.4 x 7.6	251 x 417 x 193	1	2
			SWG0600D	NEMA 1/2	87.6 x 43.7 x 31.1	2225 x 1110 x 790	896	406	6		Preinstalled in cabinet			
			SWG0600D	NEMA 3R	87.6 x 43.7 x 40.1	2225 x 1110 x 1019	932	423	6					
375	600	720	SWG0720D	OPEN	18.2 x 24.0 x 17.5	462 x 610 x 445	711	323	12	2,300	8.3 x 16.4 x 7.6	211 x 417 x 193	1	2
			SWG0720D	NEMA 1/2	87.6 x 43.7 x 31.1	2225 x 1110 x 790	1,127	511	6		9.9 x 16.4 x 7.6	251 x 417 x 193	1	
			SWG0720D	NEMA 3R	87.6 x 43.7 x 40.1	2225 x 1110 x 1019	1,164	528	6		Preinstalled in cabinet			
450	700	850	SWG0850D	OPEN	18.2 x 24.0 x 19.0	462 x 610 x 483	835	379	12	2,556	7.7 x 16.4 x 7.6	196 x 417 x 193	1	2
			SWG0850D	NEMA 1/2	84.0 x 52.0 x 36.5	2134 x 1321 x 927	1,470	667	6		9.9 x 16.4 x 7.6	251 x 417 x 193	2	
			SWG0850D	NEMA 3R	84.0 x 52.0 x 45.5	2134 x 1321 x 1156	1,511	685	6		Preinstalled in cabinet			
560	850	1000	SWG1000D	OPEN	18.1 x 24.0 x 20.6	460 x 610 x 523	942	427	12	2,850	7.4 x 16.4 x 7.6	188 x 417 x 193	1	2
			SWG1000D	NEMA 1/2	84.0 x 52.0 x 36.5	2134 x 1321 x 927	1,580	717	6		9.9 x 16.4 x 7.6	251 x 417 x 193	2	
			SWG1000D	NEMA 3R	84.0 x 52.0 x 45.5	2134 x 1321 x 1156	1,621	735	6		Preinstalled in cabinet			
675	1000	1200	SWG1200D	OPEN	25.7 x 24.0 x 20.3	653 x 610 x 516	1,272	577	13	3,000	9.9 x 16.4 x 7.6	251 x 416.6 x 193	3	2
			SWG1200D	NEMA 1/2	84.0 x 52.0 x 36.5	2134 x 1321 x 927	1,921	871	6		Preinstalled in cabinet			
			SWG1200D	NEMA 3R	84.0 x 52.0 x 45.5	2134 x 1321 x 1156	1,962	890	6					
800	1200	1500	SWG1500D	OPEN	25.9 x 24.0 x 20.0	658 x 610 x 508	1,296	588	13	3,210	9.9 x 16.4 x 7.6	251 x 417 x 193	3	2
			SWG1500D	NEMA 1/2	84.0 x 52.0 x 36.5	2134 x 1321 x 927	1,945	882	6		Preinstalled in cabinet			
			SWG1500D	NEMA 3R	84.0 x 52.0 x 45.5	2134 x 1321 x 1156	1,986	901	6					

Note: Weights and dimensions are for reference only. Please visit [mtecorp.com](http://mtecorp.com) for detailed information.

# SINEWAVE GUARDIAN® SELECTION TABLES

600V 75Hz														
Motor (Ref Only)		Filter Amps Rating	MTE Part Number	Enclosure Type	Filter Dimensions (H x W x D)		Approx Weight		Ref Fig	Watts Loss	Capacitor/Capacitor Panel Assembly Dimensions (H x W x D)		Qty Req'd	Ref Fig
600V kW	600V HP				Inches	Millimeters	Lbs	Kgs			Inches	Millimeters		
0.75	1	2	SWG0002E	OPEN	4.9 x 4.4 x 3.0	124 x 112 x 76	8	4	7	30	7.9 x 3.0	201 x 76	1	1
			SWG0002E	NEMA 1/2	13.2 x 13.0 x 13.1	335 x 330 x 333	22	10	3		Preinstalled in cabinet			
			SWG0002E	NEMA 3R	24.0 x 12.5 x 22.9	610 x 318 x 582	65	29	5		Preinstalled in cabinet			
1.5	2	3	SWG0003E	OPEN	6.7 x 8.0 x 4.8	170 x 203 x 122	11	5	7	51	7.9 x 3.0	201 x 76	1	1
			SWG0003E	NEMA 1/2	13.2 x 13.0 x 13.1	335 x 330 x 333	25	11	3		Preinstalled in cabinet			
			SWG0003E	NEMA 3R	24.0 x 12.5 x 22.9	610 x 318 x 582	68	31	5		Preinstalled in cabinet			
3	3	5	SWG0005E	OPEN	6.6 x 8.0 x 5.1	168 x 203 x 130	14	6	7	77	7.9 x 3.0	201 x 76	1	1
			SWG0005E	NEMA 1/2	13.2 x 13.0 x 13.1	335 x 330 x 333	28	13	3		Preinstalled in cabinet			
			SWG0005E	NEMA 3R	24.0 x 12.5 x 22.9	610 x 318 x 582	69	31	5		Preinstalled in cabinet			
3.7	5	7	SWG0007E	OPEN	6.7 x 8.0 x 5.4	170 x 203 x 137	15	7	7	97	7.9 x 3.0	201 x 76	1	1
			SWG0007E	NEMA 1/2	13.2 x 13.0 x 13.1	335 x 330 x 333	29	13	3		Preinstalled in cabinet			
			SWG0007E	NEMA 3R	24.0 x 12.5 x 22.9	610 x 318 x 582	70	32	5		Preinstalled in cabinet			
5.5	7.5	9	SWG0009E	OPEN	6.7 x 8.0 x 4.3	170 x 203 x 109	17	8	7	124	7.9 x 3.0	201 x 76	1	1
			SWG0009E	NEMA 1/2	13.2 x 13.0 x 13.1	335 x 330 x 333	32	15	3		Preinstalled in cabinet			
			SWG0009E	NEMA 3R	24.0 x 12.5 x 22.9	610 x 318 x 582	72	33	5		Preinstalled in cabinet			
7.5	10	12	SWG0012E	OPEN	7.5 x 9.0 x 4.8	191 x 229 x 122	20	9	7	126	7.9 x 3.0	201 x 76	1	1
			SWG0012E	NEMA 1/2	13.2 x 13.0 x 13.1	335 x 330 x 333	35	16	3		Preinstalled in cabinet			
			SWG0012E	NEMA 3R	24.0 x 12.5 x 22.9	610 x 318 x 582	75	34	5		Preinstalled in cabinet			
11	15	17	SWG0017E	OPEN	7.5 x 9.0 x 5.3	191 x 229 x 135	26	12	7	133	7.9 x 3.0	201 x 76	1	1
			SWG0017E	NEMA 1/2	13.2 x 13.0 x 13.1	335 x 330 x 333	40	18	3		Preinstalled in cabinet			
			SWG0017E	NEMA 3R	24.0 x 12.5 x 22.9	610 x 318 x 582	81	37	5		Preinstalled in cabinet			
15	20	22	SWG0022E	OPEN	8.7 x 10.5 x 6.7	221 x 267 x 170	34	15	7	146	7.9 x 3.0	201 x 76	1	1
			SWG0022E	NEMA 1/2	24.0 x 17.0 x 18.5	610 x 432 x 470	82	37	4		Preinstalled in cabinet			
			SWG0022E	NEMA 3R	24.0 x 12.5 x 22.9	610 x 318 x 582	89	40	5		Preinstalled in cabinet			
18.5	25	27	SWG0027E	OPEN	8.7 x 10.5 x 7.7	221 x 267 x 196	40	18	8	156	7.9 x 3.0	201 x 76	1	1
			SWG0027E	NEMA 1/2	24.0 x 17.0 x 18.5	610 x 432 x 470	88	40	4		Preinstalled in cabinet			
			SWG0027E	NEMA 3R	24.0 x 12.5 x 22.9	610 x 318 x 582	95	43	5		Preinstalled in cabinet			
22	30	35	SWG0035E	OPEN	8.7 x 10.5 x 7.7	221 x 267 x 196	40	18	8	210	7.9 x 3.0	201 x 76	1	1
			SWG0035E	NEMA 1/2	24.0 x 17.0 x 18.5	610 x 432 x 470	88	40	4		Preinstalled in cabinet			
			SWG0035E	NEMA 3R	24.0 x 12.5 x 22.9	610 x 318 x 582	95	43	5		Preinstalled in cabinet			
30	40	45	SWG0045E	OPEN	8.7 x 10.5 x 8.7	221 x 267 x 221	53	24	8	251	7.9 x 3.0	201 x 76	1	1
			SWG0045E	NEMA 1/2	24.0 x 17.0 x 18.5	610 x 432 x 470	101	46	4		Preinstalled in cabinet			
			SWG0045E	NEMA 3R	24.0 x 12.5 x 22.9	610 x 318 x 582	109	49	5		Preinstalled in cabinet			
37	50	55	SWG0055E	OPEN	10.7 x 12.0 x 9.4	272 x 305 x 239	63	29	9	293	7.9 x 3.0	201 x 76	1	1
			SWG0055E	NEMA 1/2	33.9 x 18.3 x 20.9	861 x 465 x 531	138	63	6		Preinstalled in cabinet			
			SWG0055E	NEMA 3R	33.9 x 18.3 x 26.0	861 x 465 x 660	149	68			Preinstalled in cabinet			
45	60	65	SWG0065E	OPEN	10.7 x 12.0 x 9.7	272 x 305 x 246	78	35	9	302	7.9 x 3.0	201 x 76	1	1
			SWG0065E	NEMA 1/2	33.9 x 18.3 x 20.9	861 x 465 x 531	152	69	6		Preinstalled in cabinet			
			SWG0065E	NEMA 3R	33.9 x 18.3 x 26.0	861 x 465 x 660	163	74			Preinstalled in cabinet			
55	75	80	SWG0080E	OPEN	10.7 x 12.0 x 10.1	272 x 305 x 257	92	42	9	359	7.9 x 3.0	201 x 76	1	1
			SWG0080E	NEMA 1/2	33.9 x 18.3 x 20.9	861 x 465 x 531	166	75	6		Preinstalled in cabinet			
			SWG0080E	NEMA 3R	33.9 x 18.3 x 26.0	861 x 465 x 660	177	80			Preinstalled in cabinet			
75	100	110	SWG0110E	OPEN	10.7 x 12.0 x 10.5	272 x 305 x 267	106	48	9	449	7.9 x 3.0	201 x 76	1	1
			SWG0110E	NEMA 1/2	33.9 x 18.3 x 20.9	861 x 465 x 531	181	82	6		Preinstalled in cabinet			
			SWG0110E	NEMA 3R	33.9 x 18.3 x 26.0	861 x 465 x 660	191	87			Preinstalled in cabinet			
90	125	130	SWG0130E	OPEN	14.4 x 15.3 x 11.2	366 x 389 x 284	161	73	9	647	7.9 x 3.0	201 x 76	1	1
			SWG0130E	NEMA 1/2	51.3 x 27.7 x 24.9	1303 x 704 x 632	332	151	6		Preinstalled in cabinet			
			SWG0130E	NEMA 3R	51.3 x 27.7 x 30.0	1303 x 704 x 762	345	156			Preinstalled in cabinet			



## 600V 75Hz

Motor (Ref Only)		Filter Amps Rating	MTE Part Number	Enclosure Type	Filter Dimensions (H x W x D)		Approx Weight		Ref Fig	Watts Loss	Capacitor/Capacitor Panel Assembly Dimensions (H x W x D)		Qty Req'd	Ref Fig
600V kW	600V HP				Inches	Millimeters	Lbs	Kgs			Inches	Millimeters		
110	150	160	SWGMO160E	OPEN	12.5 x 15.3 x 14.2	318 x 389 x 361	195	88	10	660	7.9 x 3.0	201 x 76	1	1
			SWGGO160E	NEMA 1/2	51.3 x 27.7 x 24.9	1303 x 704 x 632	367	166	6		Preinstalled in cabinet			
			SWGWO160E	NEMA 3R	51.3 x 27.7 x 30.0	1303 x 704 x 762	379	172						
150	200	200	SWGMO200E	OPEN	14.6 x 15.3 x 14.7	371 x 389 x 373	245	111	10	765	9.9 x 16.4 x 7.6	251 x 417 x 193	1	2
			SWGGO200E	NEMA 1/2	51.3 x 27.7 x 24.9	1303 x 704 x 632	414	188	6		Preinstalled in cabinet			
			SWGWO200E	NEMA 3R	51.3 x 27.7 x 30.0	1303 x 704 x 762	427	194						
185	250	250	SWGMO250E	OPEN	14.6 x 15.3 x 15.7	371 x 389 x 399	282	128	10	939	12.7 x 16.4 x 7.6	323 x 417 x 193	1	2
			SWGGO250E	NEMA 1/2	87.6 x 43.7 x 31.1	2225 x 1110 x 790	699	317	6		Preinstalled in cabinet			
			SWGWO250E	NEMA 3R	87.6 x 43.7 x 40.1	2225 x 1110 x 1019	744	337						
220	300	305	SWGMO305E	OPEN	15.1 x 15.3 x 15.6	384 x 389 x 396	333	151	11	1,194	12.7 x 16.4 x 7.6	323 x 417 x 193	1	2
			SWGGO305E	NEMA 1/2	87.6 x 43.7 x 31.1	2225 x 1110 x 790	758	344	6		8.9 x 16.4 x 7.6	226 x 417 x 193	1	2
			SWGWO305E	NEMA 3R	87.6 x 43.7 x 40.1	2225 x 1110 x 1019	803	364	Preinstalled in cabinet					
250	350	365	SWGMO365E	OPEN	15.1 x 15.3 x 15.6	384 x 389 x 396	327	148	11	1,359	12.7 x 16.4 x 7.6	323 x 417 x 193	1	2
			SWGGO365E	NEMA 1/2	87.6 x 43.7 x 31.1	2225 x 1110 x 790	752	341	6		8.9 x 16.4 x 7.6	226 x 417 x 193	1	2
			SWGWO365E	NEMA 3R	87.6 x 43.7 x 40.1	2225 x 1110 x 1019	797	362	Preinstalled in cabinet					
335	450	415	SWGMO415E	OPEN	14.8 x 15.3 x 16.6	376 x 389 x 422	360	163	11	1,599	12.7 x 16.4 x 7.6	323 x 417 x 193	1	2
			SWGGO415E	NEMA 1/2	87.6 x 43.7 x 31.1	2225 x 1110 x 790	785	356	6		8.9 x 16.4 x 7.6	226 x 417 x 193	1	2
			SWGWO415E	NEMA 3R	87.6 x 43.7 x 40.1	2225 x 1110 x 1019	830	376	Preinstalled in cabinet					
375	500	515	SWGMO515E	OPEN	18.2 x 24.0 x 14.5	462 x 610 x 368	507	230	12	1,670	12.7 x 16.4 x 7.6	323 x 417 x 193	1	2
			SWGGO515E	NEMA 1/2	87.6 x 43.7 x 31.1	2225 x 1110 x 790	917	416	6		9.9 x 16.4 x 7.6	251 x 417 x 193	1	2
			SWGWO515E	NEMA 3R	87.6 x 43.7 x 40.1	2225 x 1110 x 1019	962	436	Preinstalled in cabinet					
450	600	600	SWGMO600E	OPEN	17.9 x 24.0 x 17.4	455 x 610 x 442	726	329	12	1,734	12.7 x 16.4 x 7.6	323 x 417 x 193	2	2
			SWGGO600E	NEMA 1/2	87.6 x 43.7 x 31.1	2225 x 1110 x 790	1,142	518	6		8.9 x 16.4 x 7.6	226 x 417 x 193	1	2
			SWGWO600E	NEMA 3R	87.6 x 43.7 x 40.1	2225 x 1110 x 1019	1,187	538	Preinstalled in cabinet					
525	700	720	SWGMO720E	OPEN	18.1 x 24.0 x 18.9	460 x 610 x 480	854	387	12	2,250	12.7 x 16.4 x 7.6	323 x 417 x 193	2	2
			SWGGO720E	NEMA 1/2	84.0 x 52.0 x 36.5	2134 x 1321 x 927	1,470	667	6		9.9 x 16.4 x 7.6	251 x 417 x 193	1	
			SWGWO720E	NEMA 3R	84.0 x 52.0 x 45.5	2134 x 1321 x 1156	1,510	685	Preinstalled in cabinet					
675	900	865	SWGMO865E	OPEN	18.3 x 24.0 x 19.1	465 x 610 x 485	895	406	12	2,860	12.7 x 16.4 x 7.6	323 x 417 x 193	2	2
			SWGGO865E	NEMA 1/2	84.0 x 52.0 x 36.5	2134 x 1321 x 927	1,512	686	6		9.9 x 16.4 x 7.6	251 x 417 x 193	2	
			SWGWO865E	NEMA 3R	84.0 x 52.0 x 45.5	2134 x 1321 x 1156	1,553	704	Preinstalled in cabinet					
750	1000	1000	SWGMO1000E	OPEN	18.1 x 24.0 x 20.0	460 x 610 x 508	877	398	12	3,250	12.7 x 16.4 x 7.6	323 x 417 x 193	2	2
			SWGGO1000E	NEMA 1/2	84.0 x 52.0 x 36.5	2134 x 1321 x 927	1,495	678	6		9.9 x 16.4 x 7.6	251 x 417 x 193	2	
			SWGWO1000E	NEMA 3R	84.0 x 52.0 x 45.5	2134 x 1321 x 1156	1,536	697	Preinstalled in cabinet					
935	1250	1200	SWGMO1200E	OPEN	25.9 x 24.0 x 20.2	658 x 610 x 513	1,341	608	12	3,546	12.7 x 16.4 x 7.6	323 x 417 x 193	4	2
			SWGGO1200E	NEMA 1/2	84.0 x 52.0 x 36.5	2134 x 1321 x 927	1,977	897	6		7.9 x 3.0	201 x 76	1	1
			SWGWO1200E	NEMA 3R	84.0 x 52.0 x 45.5	2134 x 1321 x 1156	2,018	915	Preinstalled in cabinet					
1100	1500	1500	SWGMO1500E	OPEN	33.2 x 36.0 x 29.3	843 x 914 x 744	1,897	860	-	3,762	12.7 x 16.4 x 7.6	323 x 417 x 193	5	2
											7.9 x 3.0	201 x 76	1	1

Note: Weights and dimensions are for reference only. Please visit [mtecorp.com](http://mtecorp.com) for detailed information.

# REFERENCE FIGURES

## 3-PHASE CAPACITOR

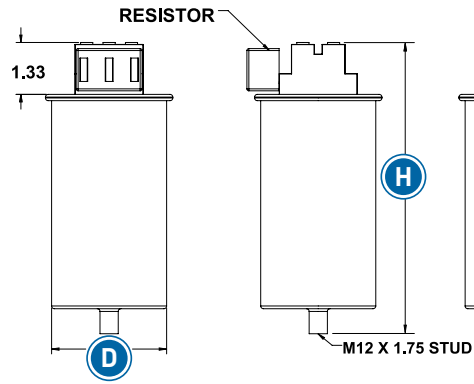
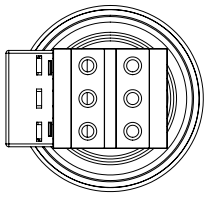
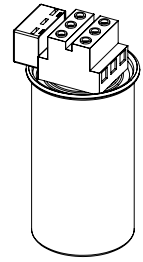


FIGURE 1



## CAPACITOR PANEL

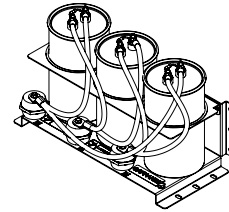
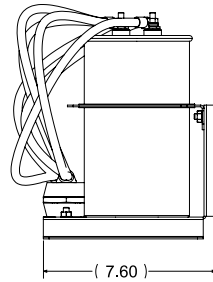
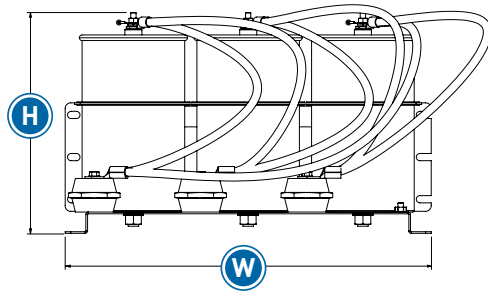


FIGURE 2

## ENCLOSURES

FIGURE 3

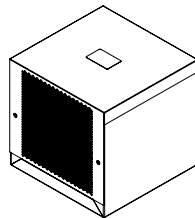
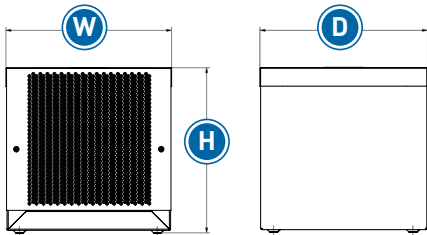


FIGURE 4

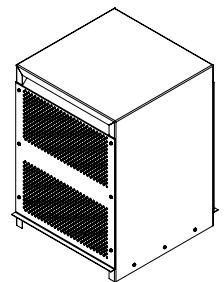
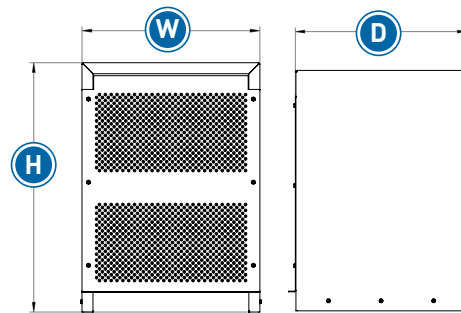
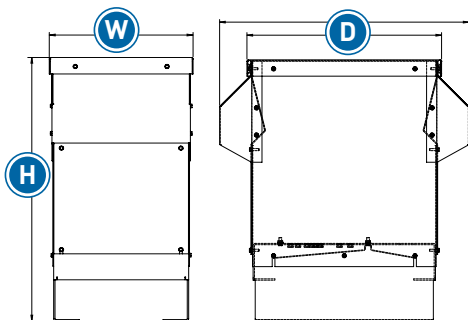
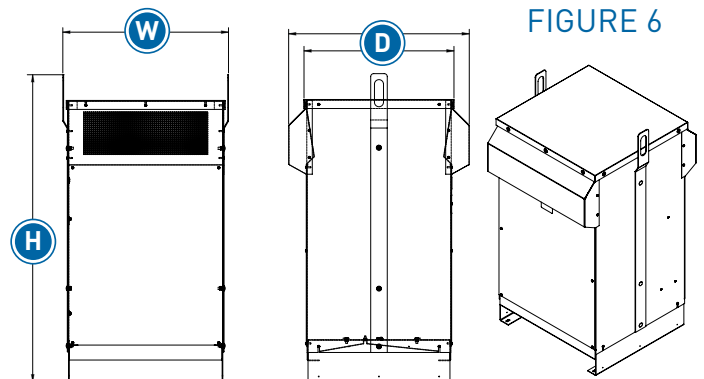


FIGURE 5



(NOTE: HOODS ONLY ON NEMA 3R ENCLOSURES)

FIGURE 6



(NOTE: HOODS ONLY ON NEMA 3R ENCLOSURES)



## OPEN MAGNETICS

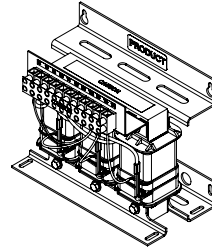
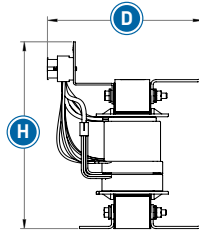
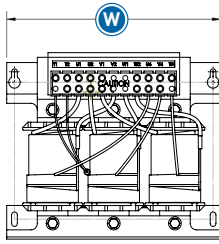


FIGURE 7

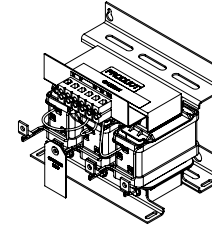
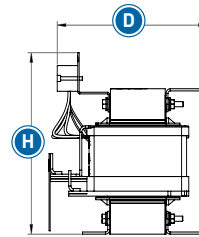
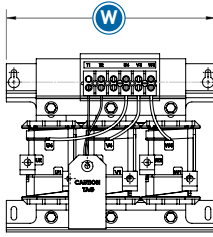


FIGURE 8

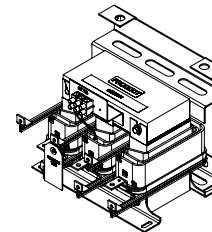
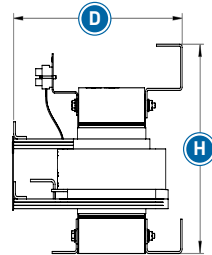
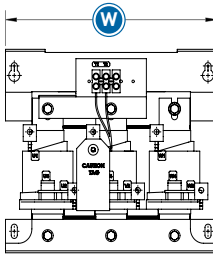


FIGURE 9

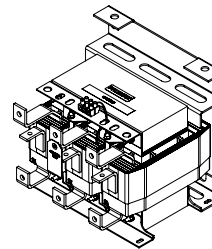
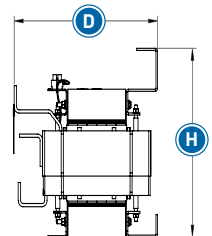
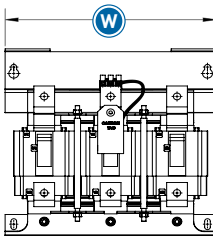


FIGURE 10

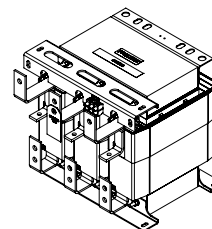
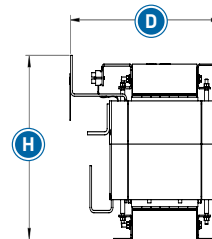
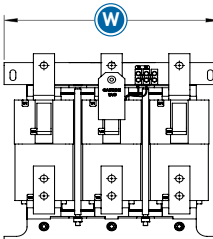


FIGURE 11

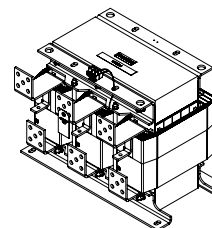
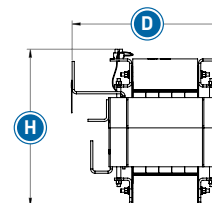
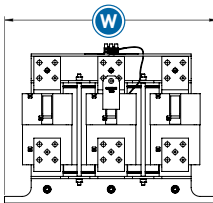


FIGURE 12