

SineWave Nexus™ Filter



The latest in motor protection. From the leaders in motor protection.

MTE's SineWave Nexus™ filter combines the performance of a sinewave filter with our patented common mode protection technology into a single passive device. The SineWave Nexus not only cleans the PWM waveform generated by Variable Frequency Drives (VFDs), it virtually eliminates common mode voltage which causes motor bearing failures. By filtering out the damaging common mode voltage, motor bearings are never subject to those harmful voltages that cause pitting, frosting, or fluting damage that leads to motor failure. Eliminate the need for costly isolation transformers, or shaft grounding rings that require regular maintenance and replacement, with the SineWave Nexus – an electrical solution for an electrical problem.

The optimal solution for reducing common mode and differential mode voltages and currents.

- Increases motor life
- Eliminates motor failures due to bearing currents
- Reduces motor noise and heating
- Small package solution
- Three-year warranty

Amps Rating: 380V-480V, Modular

Select filters based on the Full Load Amps (FLA) of the motor. If the FLA is greater than the current rating of the filter, use the next larger filter. Note: The motor KW and HP ratings listed below are for reference only.

380V Motor KW	480V Motor HP	Filter Amps Rating	Part Number	Weight		Filter Dimensions (H x W x D)		Watts Loss	Capacitor Dimensions (H x DIA)		Common Mode Assembly Dimensions (H x W x D)	
				Lbs	Kgs	Inches	Millimeters		Inches	Millimeters	Inches	Millimeters
0.55	0.75	2	SWNM0002D	12	5	8.2 x 6.9 x 4.2	208 x 175 x 107	30	7.5 x 3.0	191 x 76	3.0 x 5.8 x 3.3	76 x 147 x 84
0.75	1.5	3	SWNM0003D	14	6	8.2 x 6.9 x 4.5	208 x 175 x 114	36	7.5 x 3.0	191 x 76	3.0 x 5.8 x 3.3	76 x 147 x 84
2.2	3	5	SWNM0005D	19	9	8.2 x 6.9 x 4.8	208 x 175 x 122	55	7.5 x 3.0	191 x 76	4.3 x 9.4 x 5.1	109 x 239 x 130
5.5	7.5	12	SWNM0012D	32	15	10.2 x 8.8 x 5.8	259 x 224 x 147	102	7.5 x 3.0	191 x 76	4.3 x 9.4 x 5.1	109 x 239 x 130
7.5	10	17	SWNM0017D	51	23	13.1 x 11.0 x 6.6	333 x 279 x 168	148	7.5 x 3.0	191 x 76	4.3 x 9.4 x 5.1	109 x 239 x 130
11	15	22	SWNM0022D	61	28	13.1 x 11.0 x 7.1	333 x 279 x 180	180	7.5 x 3.0	191 x 76	4.3 x 9.4 x 5.1	109 x 239 x 130
-	20	27	SWNM0027D	62	28	13.1 x 11.0 x 7.1	333 x 279 x 180	207	7.5 x 3.0	191 x 76	4.3 x 9.4 x 5.1	109 x 239 x 130
22	30	45	SWNM0045D	67	30	13.2 x 11.0 x 7.6	335 x 279 x 193	296	7.5 x 3.9	191 x 99	4.3 x 9.4 x 5.1	109 x 239 x 130
30	50	65	SWNM0065D	94	43	15.6 x 15.0 x 9.0	396 x 381 x 229	457	8.3 x 4.6	211 x 117	4.3 x 9.4 x 5.1	109 x 239 x 130
55	75	110	SWNM0110D	141	64	15.6 x 15.0 x 10.7	396 x 381 x 272	559	8.3 x 4.6	211 x 117	4.3 x 9.4 x 5.1	109 x 239 x 130
-	100	130	SWNM0130D	176	80	15.7 x 15.0 x 12.2	399 x 381 x 310	729	(2) 8.3 x 3.9 8.3 x 4.6	(2) 211 x 99 211 x 117	4.3 x 9.4 x 5.1	109 x 239 x 130
75	125	160	SWNM0160D	210	95	15.9 x 15.0 x 15.9	404 x 381 x 404	760	8.3 x 3.9 8.3 x 4.6	211 x 99 211 x 117	4.3 x 9.4 x 5.1	109 x 239 x 130

Amps Rating: 380V-480V, NEMA 1/2 & NEMA 3R

Select filters based on the Full Load Amps (FLA) of the motor. If the FLA is greater than the current rating of the filter, use the next larger filter. Note: The motor KW and HP ratings listed below are for reference only.

380V Motor KW	480V Motor HP	Filter Amps Rating	NEMA 1/2 Part Number	Weight		Enclosure	Filter Dimensions (H x W x D)		NEMA 3R Part Number	Weight		Enclosure	Filter Dimensions (H x W x D)	
				Lbs	Kgs		Inches	Millimeters		Lbs	Kgs		Inches	Millimeters
0.55	0.75	2	SWNG0002D	29	13	CAB-13V	13.2 x 13.0 x 13.1	335 x 330 x 333	SWNW0002D	71	32	CAB-12AP3	24.0 x 12.5 x 23.0	610 x 318 x 584
0.75	1.5	3	SWNG0003D	31	14	CAB-13V	13.2 x 13.0 x 13.1	335 x 330 x 333	SWNW0003D	73	33	CAB-12AP3	24.0 x 12.5 x 23.0	610 x 318 x 584
2.2	3	5	SWNG0005D	71	32	CAB-12AP2	24.0 x 12.5 x 17.9	610 x 318 x 455	SWNW0005D	78	35	CAB-12AP3	24.0 x 12.5 x 23.0	610 x 318 x 584
5.5	7.5	12	SWNG0012D	83	38	CAB-12AP2	24.0 x 12.5 x 17.9	610 x 318 x 455	SWNW0012D	91	41	CAB-12AP3	24.0 x 12.5 x 23.0	610 x 318 x 584
7.5	10	17	SWNG0017D	102	46	CAB-12AP2	24.0 x 12.5 x 17.9	610 x 318 x 455	SWNW0017D	110	50	CAB-12AP3	24.0 x 12.5 x 23.0	610 x 318 x 584
11	15	22	SWNG0022D	112	51	CAB-12AP2	24.0 x 12.5 x 17.9	610 x 318 x 455	SWNW0022D	120	54	CAB-12AP3	24.0 x 12.5 x 23.0	610 x 318 x 584
-	20	27	SWNG0027D	113	51	CAB-12AP2	24.0 x 12.5 x 17.9	610 x 318 x 455	SWNW0027D	121	55	CAB-12AP3	24.0 x 12.5 x 23.0	610 x 318 x 584
22	30	45	SWNG0045D	118	54	CAB-12AP2	24.0 x 12.5 x 17.9	610 x 318 x 455	SWNW0045D	126	57	CAB-12AP3	24.0 x 12.5 x 23.0	610 x 318 x 584
30	50	65	SWNG0065D	174	79	CAB-17AP2	33.9 x 18.3 x 20.9	861 x 465 x 531	SWNW0065D	185	84	CAB-17AP3	33.9 x 18.3 x 26.0	861 x 465 x 660
55	75	110	SWNG0110D	221	100	CAB-17AP2	33.9 x 18.3 x 20.9	861 x 465 x 531	SWNW0110D	232	105	CAB-17AP3	33.9 x 18.3 x 26.0	861 x 465 x 660
-	100	130	SWNG0130D	225	102	CAB-17AP2	33.9 x 18.3 x 20.9	861 x 465 x 531	SWNW0130D	266	121	CAB-17AP3	33.9 x 18.3 x 26.0	861 x 465 x 660
75	125	160	SWNG0160D	385	175	CAB-26AP2	51.3 x 27.7 x 24.9	1303 x 704 x 632	SWNW0160D	398	181	CAB-26AP3	51.3 x 27.7 x 30.0	1303 x 704 x 762

Amps Rating: 600V, Modular

Select filters based on the Full Load Amps (FLA) of the motor. If the FLA is greater than the current rating of the filter, use the next larger filter. Note: The motor KW and HP ratings listed below are for reference only.

600V Motor KW	600V Motor HP	Filter Amps Rating	Part Number	Weight		Filter Dimensions (H x W x D)		Watts Loss	Capacitor Dimensions (H x DIA)		Common Mode Assembly Dimensions (Hx W x D)	
				Lbs	Kgs	Inches	Millimeters		Inches	Millimeters	Inches	Millimeters
				3	3	5	SWNM0005E		28	13	10.2 x 8.8 x 5.3	259 x 224 x 135
7.5	10	12	SWNM0012E	34	15	10.2 x 8.8 x 5.8	259 x 224 x 147	157	8.3 x 3.0	211 x 76	4.3 x 9.4 x 5.1	109 x 239 x 130
11	15	17	SWNM0017E	65	29	13.2 x 11.0 x 7.1	335 x 279 x 180	213	8.3 x 3.0	211 x 76	4.3 x 9.4 x 5.1	109 x 239 x 130
15	20	22	SWNM0022E	66	30	13.2 x 11.0 x 7.1	335 x 279 x 180	243	8.3 x 3.0	211 x 76	4.3 x 9.4 x 5.1	109 x 239 x 130
18.5	25	27	SWNM0027E	76	34	13.2 x 11.0 x 7.6	335 x 279 x 193	268	8.3 x 3.0	211 x 76	4.3 x 9.4 x 5.1	109 x 239 x 130
30	40	45	SWNM0045E	99	45	15.7 x 15.0 x 9.1	399 x 381 x 231	458	8.3 x 3.0	211 x 76	4.3 x 9.4 x 5.1	109 x 239 x 130
45	60	65	SWNM0065E	114	52	15.7 x 15.0 x 9.7	399 x 381 x 246	467	8.3 x 4.0	201 x 102	4.3 x 9.4 x 5.1	109 x 239 x 130
75	100	110	SWNM0110E	178	81	15.7 x 15.0 x 12.3	399 x 381 x 312	910	8.3 x 4.6	201 x 117	4.3 x 9.4 x 5.1	109 x 239 x 130
90	125	130	SWNM0130E	177	80	15.8 x 15.0 x 12.1	401 x 381 x 307	930	8.3 x 4.6	201 x 117	4.3 x 9.4 x 5.1	109 x 239 x 130

Amps Rating: 600V, NEMA 1/2 & NEMA 3R

Select filters based on the Full Load Amps (FLA) of the motor. If the FLA is greater than the current rating of the filter, use the next larger filter. Note: The motor KW and HP ratings listed below are for reference only.

600V Motor KW	600V Motor HP	Filter Amps Rating	NEMA 1/2 Part Number	Weight		Enclosure	Filter Dimensions (H x W x D)		NEMA 3R Part Number	Weight		Enclosure	Filter Dimensions (H x W x D)	
				Lbs	Kgs		Inches	Millimeters		Lbs	Kgs		Inches	Millimeters
				3	3		5	SWNG0005E		80	36		CAB-12AP2	24.0 x 12.5 x 17.9
7.5	10	12	SWNG0012E	85	39	CAB-12AP2	24.0 x 12.5 x 17.9	610 x 318 x 455	SWNW0012E	93	42	CAB-12AP3	24.0 x 12.5 x 23.0	610 x 318 x 584
11	15	17	SWNG0017E	116	53	CAB-12AP2	24.0 x 12.5 x 17.9	610 x 318 x 455	SWNW0017E	124	56	CAB-12AP3	24.0 x 12.5 x 23.0	610 x 318 x 584
15	20	22	SWNG0022E	117	53	CAB-12AP2	24.0 x 12.5 x 17.9	610 x 318 x 455	SWNW0022E	125	57	CAB-12AP3	24.0 x 12.5 x 23.0	610 x 318 x 584
18.5	25	27	SWNG0027E	127	58	CAB-12AP2	24.0 x 12.5 x 17.9	610 x 318 x 455	SWNW0027E	135	61	CAB-12AP3	24.0 x 12.5 x 23.0	610 x 318 x 584
30	40	45	SWNG0045E	178	81	CAB-17AP2	33.9 x 18.3 x 20.9	861 x 465 x 531	SWNW0045E	189	86	CAB-17AP3	33.9 x 18.3 x 26.0	861 x 465 x 660
45	60	65	SWNG0065E	194	88	CAB-17AP2	33.9 x 18.3 x 20.9	861 x 465 x 531	SWNW0065E	205	93	CAB-17AP3	33.9 x 18.3 x 26.0	861 x 465 x 660
75	100	110	SWNG0110E	353	160	CAB-26AP2	51.3 x 27.7 x 24.9	1303 x 704 x 632	SWNW0110E	366	166	CAB-26AP3	51.3 x 27.7 x 30.0	1303 x 704 x 762
90	125	130	SWNG0130E	351	159	CAB-26AP2	51.3 x 27.7 x 24.9	1303 x 704 x 632	SWNW0130E	364	165	CAB-26AP3	51.3 x 27.7 x 30.0	1303 x 704 x 762