

Three-Phase Sine Filters (SIN-00xx-5-0-P)

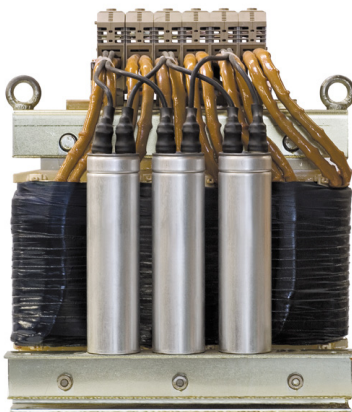
PRODUCT DATA

FEATURES

- Full sine-wave output over a wide frequency range
- High efficiency
- High overload stability
- Dedicated cabinet terminals
- Suitable for motor cables with a length of up to 500 meters or more
- Base mounting

SPECIFICATIONS

Rated voltage:	3-phase, 500 V, 70 Hz
Overload:	1.6 X I _N , 1 min. every 10 min.
Switching frequency:	> 3.6 kHz
Isolation class:	EIS 155
IP Class:	IP00
Connection:	cabinet terminals
Connection of capacitors:	Delta connection
Dimensions:	see Fig. 2 and Table 2
Weight (kg):	see Table 2



GENERAL

SIN-00xx-5-0-P Honeywell sine filters are accessory devices for Honeywell inverters, and are designed to supply ideal sine-wave AC voltage.

Typically, frequency converters deliver sine-wave voltage by switching DC voltage ON/OFF in a set pattern. In combination with long motor cables or older motors, this switched voltage can lead to application issues or motor damage (e.g., defective bearings or insulation breakage). The use of sine filters reduces such risks, and also minimizes energy loss due to cable capacitance.

Honeywell sine filters are designed for installation inside cabinets. To maximize benefits, the filters should be mounted near the inverter.

MODELS

Table 1. Technical data

OS no.	T _a 40 °C		T _a 50 °C		L (mH)	C (μF)	terminal (mm ²)		clamping torque (Nm)	
	I _N (A)	P _{LOSS} (W)	I _N (A)	P _{LOSS} (W)			main	PE	main	PE
SIN-0010-5-0-P	10	100	8.8	85	8.10	2.2	0.2 - 4	0.2 - 6	0.6 - 0.8	0.5 - 1.0
SIN-0018-5-0-P	18	140	16	120	4.50	3.0	0.5 - 10	0.5 - 10	1.5 - 1.8	1.5 - 1.8
SIN-0032-5-0-P	32	170	28	140	2.40	6.8	1.0 - 16	4 - 16	2.5 - 3	1.5 - 1.8
SIN-0048-5-0-P	48	190	42	155	1.55	10	2.5 - 35	4 - 16	2.5 - 3	1.5 - 1.8
SIN-0075-5-0-P	75	350	66	290	1.08	15	2.5 - 35	4 - 16	2.5 - 3	1.5 - 1.8
SIN-0110-5-0-P	110	550	97	455	0.72	22	16 - 70	M8	6.0 - 7.0	25
SIN-0180-5-0-P	180	600	155	480	0.43	47	25 - 95	M8	6.0 - 12	25

WIRING

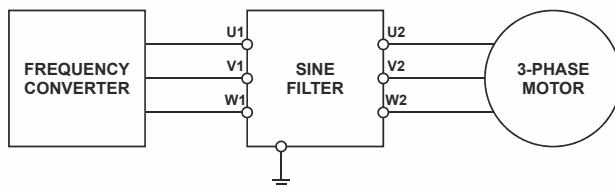


Fig. 1. Wiring diagram

DIMENSIONS

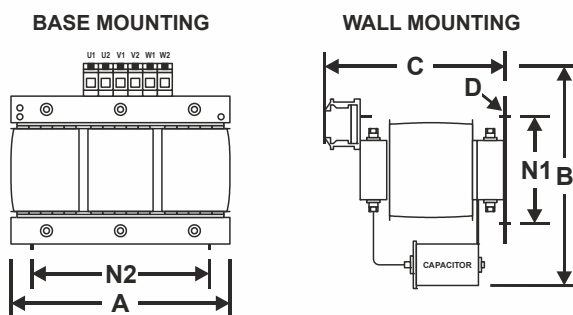


Fig. 2. Dimensions

Table 2. Dimensions

OS no.	dimensions (m)			fixing dimensions (mm)			wt. kg	mounting	
	A	B	C	N2	N1	D		base	wall
SIN-0010-5-0-P	190	145	215	170	57.5	8 x 12	10	X	X
SIN-0018-5-0-P	210	165	240	180	80.5	8 x 12	12.5	X	X
SIN-0032-5-0-P	240	185	275	190	95	11 x 15	19	X	X
SIN-0048-5-0-P	240	205	270	190	115	11 x 18	24	X	X
SIN-0075-5-0-P	300	265	330	250	133	11 x 15	48	X	--
SIN-0110-5-0-P	360	290	460	300	150	11 x 23	71.5	X	--
SIN-0180-5-0-P	360	290	460	300	150	11 x 23	90.5	X	--

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