

>>> Sine wave filters

The products are specially designed for VFD to protect the motors. It is used at the output side of frequency converters and converted the PWM output signal of motor into a smooth sine wave form. Besides it reduces the resonance phenomenon caused by distributed capacitance and inductance of the long cable (longer than 50 meters).

Technical Data

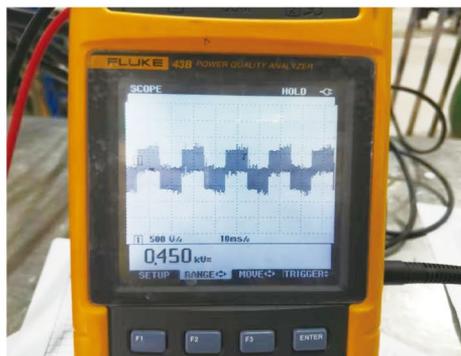
Standard	EN60076-6, EN61558-2-20, UL 1446, EN60939
Rated voltage	380V to 1000V
Rated frequency	50Hz/60Hz
Line voltage tolerance	+/-10%
Switching frequency	3KHz~10KHz
Dielectric test	50Hz 3KV, 60s
Cooling method	Natural air
Ambient temperature	-25 to +50 °C
Elevation above sea level	≤1000m a.s.l.(≤4000m optional)
Protection class	IP00 indoor mounting
Insulation class	H(UL approved resin)
Maximum humidity	95%
Design method	Three phase, dry type iron core, multiple air gap
Winding material	Copper
Terminal	Copper terminals
Approval marks	CE, TUV, EAC, 

Features

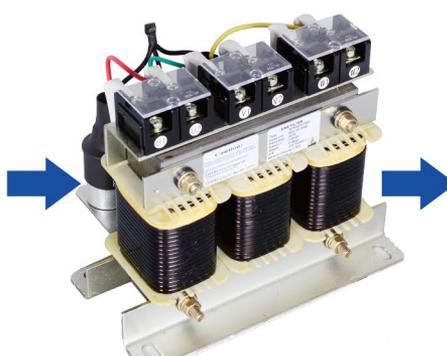
- ★ Substantially reduce the high dv/dt and eddy-current loss generated by VFD
- ★ Reduce the motor noise and prolong its lifetime
- ★ Improve the THDV < 5% at 100% load condition
- ★ Copper connections
- ★ Recommended for applications with long cable distances and higher frequency interferences

Ordering Code	U_N (V)	Converter (HP)	Power (KW)	I_N (A)	Weight(kg)
$f_N=50\text{Hz}$, 3Phase, Copper wire winding					
SFR840007	400	7	5.5	12	13
SFR840010		10	7.5	16	14
SFR840015		15	11	24	18
SFR840020		20	15	32	22
SFR840025		25	18.5	40	29
SFR840030		30	22	48	34
SFR840040		40	30	60	42
SFR840050		50	37	75	48
SFR840060		60	45	90	64
SFR840075		75	55	115	72
SFR840100		100	75	150	96
SFR840125		125	90	180	108
SFR840150		150	110	220	143

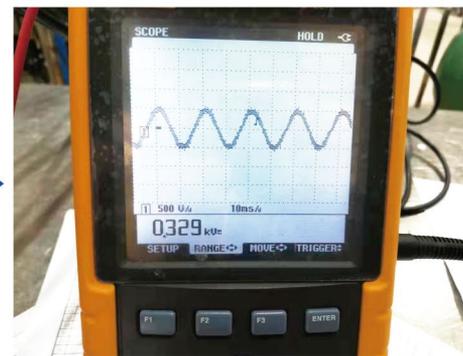
Other specifications are available upon request.



Before filtering



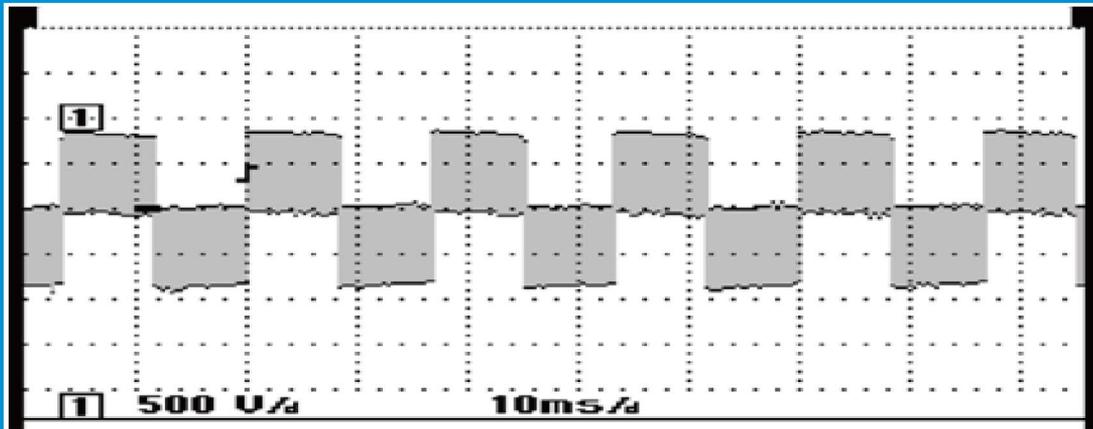
Sine wave filter



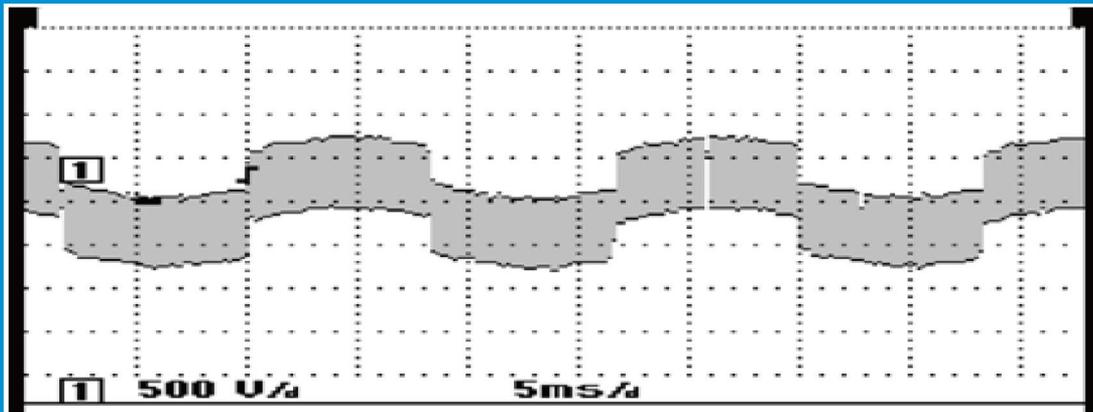
After filtering

Figures of Contrast

Without output AC reactor & sine wave filter



With output AC reactor



With sine wave filter

