



SF3 Series

Factory Automation overseas sales division

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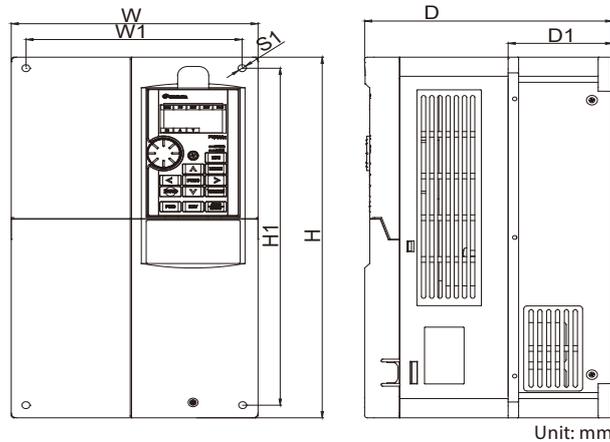
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Main features

- Control up to 7 pumps at the same time with EB308R expansion card
- Fire mode function for HVAC
- Asynchronous (IM) motor and PM motor (SPM & IPM) control
- Pressure monitoring on LCD keypad(optional)
- Output frequency can be controlled by PWM pulse input signal
- Built-in PLC function: free PLC ladder programming software for easy programming with 21 basic commands and 14 application commands
- Optional communication cards (CANopen, DeviceNet, Profibus-DP, Ethernet, EtherCAT)/ IO cards(6 digital input 2 relay output/ 8 relay output)

Dimensions



Model	Frame	W	W1	H	H1	D	D1	S1
SF3-043-5.5K/3.7KG	A	130.0	116.0	250.0	236.0	170.0	51.3	6.2
SF3-043-7.5K/5.5KG								
SF3-043-11K/7.5KG								
SF3-043-15K/11KG	B	190.0	173.0	320.0	303.0	190.0	80.5	8.5
SF3-043-18.5K/15KG								
SF3-043-22K/18.5KG								
SF3-043-30K/22KG	C	250.0	231.0	400.0	381.0	210.0	89.5	8.5
SF3-043-37K/30KG								
SF3-043-45K/37KG								
SF3-043-55K/45KG	D	330.0	245.0	550.0	525.0	275.0	137.5	11.0
SF3-043-75K/55KG								
SF3-043-90K/75KG								
SF3-043-110K/90KG	E	370.0	295.0	589.0	560.0	300.0	137.5	11.0
SF3-043-132K/110KG								
SF3-043-160K/132KG								
SF3-043-185K/160KG	F	420.0	330.0	800.0	770.0	300.0	145.5	13.0
SF3-043-220K/185KG								
SF3-043-250K/220KG								
SF3-043-280K/250KG	G	500.0	180.0	870.0	850.0	360.0	150.0	13.0
SF3-043-315K/280KG								
SF3-043-355K/315KG								
SF3-043-315K/280KG	H	600.0	230.0	1000.0	980.0	400.0	181.5	13.0
SF3-043-355K/315KG								



Common specifications

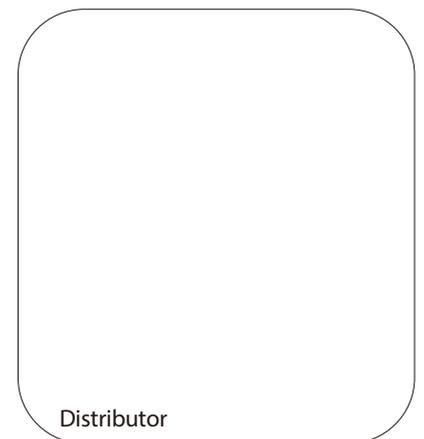
Control method		SVPWM control, V/F control, general flux vector control, sensorless vector control (SVC).
Output frequency range		0~599Hz
Input terminal	Digital	10 terminals, 1 with 100kHz input resolution, able to switch between sink/source.
	Analog	3 terminals, 2 with 0~20mA or 0~10V range, 1 with -10~+10V range.
Output terminal	Digital	2 programmable 1a1b relay, 2 programmable transistor, 1 high speed pulse output.
	Analog	2 with 0~10V / 0~20mA / 4~20mA range.
Brake transistor		Built-in in frame A B C
Starting torque		150% 0.5Hz (SVC).
Drive motor		Induction motor(IM), permanent magnet motor(SPM, IPM).
Communication function		Built-in Shihlin/Modbus communication protocol, can select Modbus TCP / CANopen / Profibus / DeviceNet / EtherCAT card.
Environment	Ambient temperature	-10 ~ +40°C (non-freezing).
	Ambient humidity	Below 90%Rh (non-condensing).
	Storage temperature	-20 ~ +65°C.
	Surrounding	Indoor, no corrosive gas, no flammable gas, no flammable powder.

Electrical specifications

3 Phase 440V

frame		A		B			C				D			E			
Mode SF3-043-□K□KG-xy		5.5/3.7	7.5/5.5	11/7.5	15/11	18.5/15	22/18.5	30/22	37/30	45/37	55/45	75/55	90/75	110/90	132/110		
Inverter Output	ND	Rated output capacity (kVA)	10	14	18	25	29	34	46	56	69	84	114	137	168	198	
		Rated output current (A)	13	18	24	32	38	45	60	73	91	110	150	180	220	260	
		Applicable motor capacity (HP)	7.5	10	15	20	25	30	40	50	60	75	100	120	150	175	
		Applicable motor capacity (kW)	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110	132	
		Overload current rating	120% 60 seconds														
	HD	Carrier frequency (kHz)	1~15kHz					1~10kHz					1~9kHz				
		Rated output capacity (kVA)	6.9	10	14	18	25	29	34	46	56	69	84	114	137	168	
		Rated output current (A)	9	13	18	24	32	38	45	60	73	91	110	150	180	220	
		Applicable motor capacity (HP)	5	7.5	10	15	20	25	30	40	50	60	75	100	120	150	
		Applicable motor capacity (kW)	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110	
Power Supply	Overload current rating	150% 60 seconds															
	Carrier frequency (kHz)	1~15kHz										1~10kHz					
	Maximum output voltage	3 phase 380-480V															
	Rated input AC voltage/ frequency	3 phase 380-480V 50Hz / 60Hz															
	Permissible AC voltage fluctuation	3 phase 342-528V 50Hz / 60Hz															
	Permissible frequency fluctuation	±5%															
	Power supply capacity (kVA)	10.4	11.5	16	20	27	32	41	52	65	79	100	100	137	165		
	Cooling method	Fan cooling															
	Weight (kg)	3	3	6	6	6	10	10	10	11	25	26	30	38	39		

frame		F		G			H		
Mode SF3-043-□K□KG-xy		160/132	185/160	220/185	250/220	280/250	315/280	355/315	
Inverter Output	HD	Rated output capacity (kVA)	236	295	367	402	438	491	544
		Rated output current (A)	310	340	425	480	530	620	683
		Applicable motor capacity (HP)	215	250	300	335	375	420	475
		Applicable motor capacity (kW)	160	185	220	250	280	315	355
		Overload current rating	120% 60 seconds						
	ND	Carrier frequency (kHz)	1~9kHz			1~4kHz			
		Rated output capacity (kVA)	198	236	295	367	402	438	491
		Rated output current (A)	260	310	340	425	480	530	620
		Applicable motor capacity (HP)	175	215	250	300	335	375	420
		Applicable motor capacity (kW)	132	160	185	220	250	280	315
Power Supply	Overload current rating	150% 60 seconds							
	Carrier frequency (kHz)	1~10kHz			1~4kHz				
	Maximum output voltage	3 phase 380-480V							
	Rated input AC voltage/ frequency	3 phase 380-480V 50Hz / 60Hz							
	Permissible AC voltage fluctuation	3 phase 342-528V 50Hz / 60Hz							
	Permissible frequency fluctuation	±5%							
	Power supply capacity (kVA)	198	247	295	367	402	438	491	
	Cooling method	Fan cooling							
	Weight (kg)	56	56	93	93	93	120	120	



Distributor

DM210903-L-SF3