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Global
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NEW

FAN/PUMP Application

SP100 BYPASS

Designed for HVAC applications, the new SP100 Bypass offers a stable operation with reduced downtime and energy savings using the H100+ series drive



Capacity

- 200V Class 7.5~40HP(5.5~30kW)
- 400V Class 7.5~75HP(5.5~55kW)



Features

- 3 Contactor Bypass
- HAND/OFF/AUTO LCD keypad
- Compact Size
- Built-in DC Reactor (Standard)
- Easy Wiring and Installation
- Built-in Operation Indicator
- Auto Bypass Function
- Motor OL Trip Detection
- Easy Maintenance
- Built-in Modbus RTU, BACnet MS/TP, Metasys N2 communication
- Dualport Ethernet/IP, Modbus TCP, BACnet/IP, Lonworks (optional)
- NEMA 1 Enclosure
- KEB, Kinetic Energy Buffering
- Fire Mode
- Built-in Five Relay Outputs
- Real Time Clock
- Short circuit current rating 65KAIC
- Built-in Electronic Motor Overloads
- Built-in Damper Control

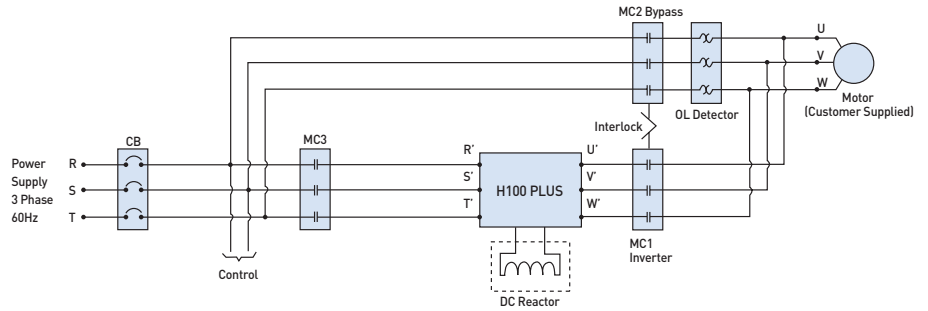
NEW



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SP100 Bypass



Block Diagram

Items	Name	Description
R, S, T	SP100 Line Power Input	3-phase AC line power supply
U, V, W	SP100 Output to Motor	3-phase output to the motor
R', S', T'	VFD Line Input	No additional wiring is required
U', V', W'	VFD Output	No additional wiring is required
MC3	Input Contactor	Input contactor to VFD
MC2	Bypass Contactor	Bypass contactor for bypass mode
MC1	Output Contactor	Output contactor for drive mode

Items	Name	Description
DC Reactor (Standard)	DC Reactor	DC Reactor for VFD
CB	Circuit Breaker	Circuit breaker for the SP100 input connections
OL Detector	Thermal Overload Relay	Protects motor from overload and phase loss

Standard Specification

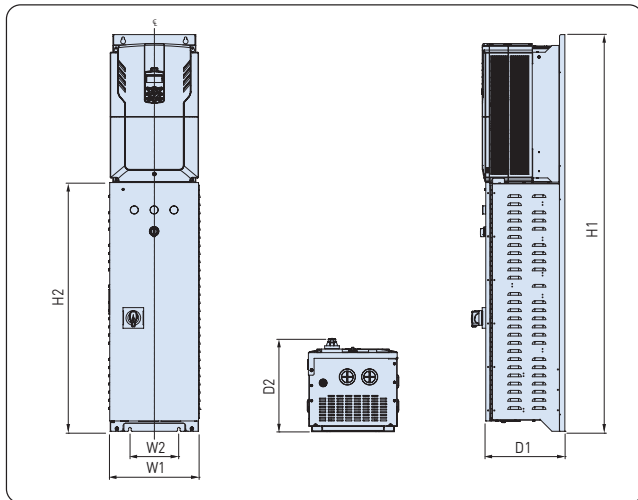
3-Phase 208/240VAC 7.5~40HP

Model	SP100-2	0055	0075	0110	0150	0185	0220	0300
Rating	HP	7.5	10	15	20	25	30	40
	kW	5.5	7.5	11	15	18.5	22	30
Rated Output Current		22	30	42	56	69	82	110

3-Phase 480VAC 7.5~75HP

Model	SP100-4	0055	0075	0110	0150	0185	0220	0300	0370	0450	0550
Rating	HP	7.5	10	15	20	25	30	40	50	60	75
	kW	5.5	7.5	11	15	18.5	22	30	37	45	55
Rated Output Current		12	16	24	30	38	45	61	75	91	107

Dimension



[Units: inches]

Model		W1	W2	H1	H2	D1	D2
3-phase 200V Class	0055SP100-2	6.65	4.33	36.61	27.46	6.85	8.93
	0075SP100-2						
	0110SP100-2	8.26	5.51	46.41	34.12	8.57	10.65
	0150SP100-2						
	0185SP100-2	9.83	6.30	51.65	37.06	9.63	11.71
	0220SP100-2	13.27	7.09	57.48	36.04	11.46	13.53
	0300SP100-2						
3-phase 400V Class	0055SP100-4	6.65	4.33	36.61	27.46	6.85	8.93
	0075SP100-4						
	0110SP100-4						
	0150SP100-4	8.26	5.51	46.41	34.12	8.75	10.65
	0185SP100-4						
	0220SP100-4	9.83	6.30	51.65	37.06	9.63	11.71
	0300SP100-4	13.27	7.09	57.48	36.04	11.46	13.53
	0370SP100-4						
	0450SP100-4						
0550SP100-4							

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• According to The WEEE Directive, please do not discard the device with your household waste.