



Ultra Slim

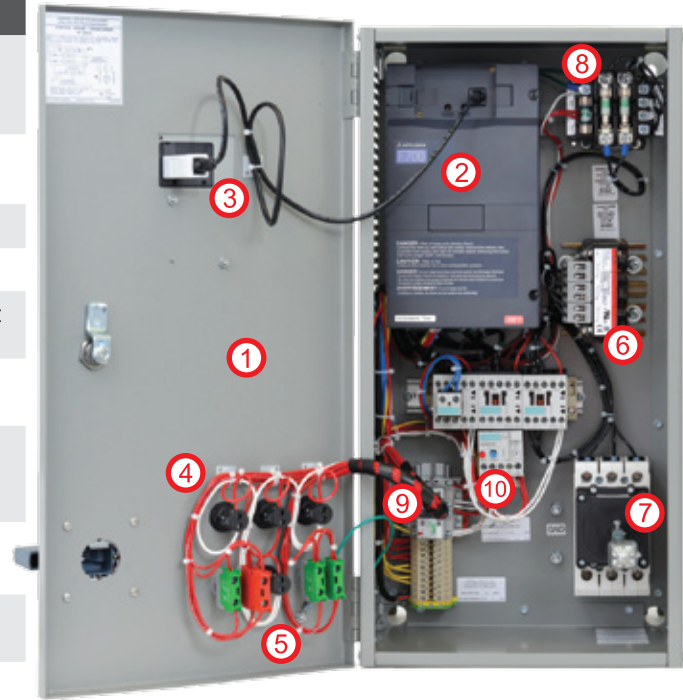
SV1 SERIES

Up to 40 HP / 480 VAC


For HVAC & pumping applications
12" wide ventilated enclosure
All components housed in single enclosure
Easy installation - 3 lines in & 3 lines out
UL508A Listed
Remote I/O capability

FEATURES

Feature	Benefit
① NEMA1 ventilated enclosure	Provides protection to personnel and equipment by limiting access and preventing falling objects from entering enclosure
② Variable frequency drive	The SV1 panel utilizes the Mitsubishi F700 series and includes a 1 year warranty
③ Full function keypad	Operate the VFD without opening the panel
④ LED 22mm pilot lights	Quickly view the status of the panel
⑤ 22mm door operator switches	Power on and off and make adjustments without opening the panel or accessing the keypad
⑥ Line reactor	Protects the VFD from power surges and reduces electrical noise by 65%
⑦ Door-interlocked input circuit breaker disconnect	Provides additional safety by powering down the equipment before opening the panel and allowing OSHA lockout
⑧ 120V control power transformer and relays	Isolates sensitive control circuits from the power system
⑨ Embossed numbering system	Each wire is uniquely identified for ease of troubleshooting
⑩ Bypass	Three contactor bypass electrically and mechanically interlocked, allows motor to run across line in case of VFD failure



SPECIFICATIONS

Control System	Soft PWM for peak voltage mitigation at motor terminals and quiet operation	Control Power	120V control power transformer with primary fuses, secondary fuses, and isolation relays
Input Voltages	200-240VAC / 460-480VAC	Bypass (Optional)	Three contactor bypass
Motor Voltages	200-240VAC / 460-480VAC	Line Reactor	3% standard, 5% optional
Input Voltage Range	170-264VAC / 323-528VAC	Alarm History	8 alarms saved
Input Phase	3-phase	Keypad	Standard full function keypad, advanced alpha-numeric keypad optional
Input Frequency	50 or 60 Hz	Door Mounted Controls	22mm LED lights and operator devices
Output Frequency	0.5 to 400 Hz	Ambient Temperature	40°C, other temperature ratings available
Horsepower	1/2 - 20 HP (at 230VAC) 1/2 - 40 HP (at 460VAC)	Communications	Modbus-RTU & BACnet MS/TP standard, other communications options available
Overload Rating	110% 60sec, 120% 3sec Additional overload ratings optional	Circuit Breaker	Padlockable door-interlocked circuit breaker standard, 65 KAIC optional
VFD	Mitsubishi F700 series standard, other options available	Option Cards	Two option cards can be installed simultaneously A wide range of option cards available
Enclosure	NEMA 1 ventilated enclosure	Windmill Start	Catch a spinning load
Dimensions (WxHxD)	12" X 24" X 11" (up to 7.5 HP) 12" X 48" X 13" (10+ HP)	Warranty	1 year standard warranty, extended warranties optional
UL Listed 	UL508A tested and listed		



Padlockable Handle



Variable Frequency Drive



Line Reactor



3 Contactor Bypass