INSTALLER FRIENDLY SERIES™ - IFS Single Phase Duplex Capacitor (Start/Run)

Single phase, duplex demand dose, float controlled system for pump control and system monitoring.

The IFS single phase duplex capacitor (start/run) control panel is designed to alternately control two 120, 208, or 240 VAC single phase pumps in water and sewage installations.

The IFS single phase duplex capacitor (start/run) control panel features a simple, easy-to-use touch pad on the inner door for programming and monitoring pump and float operation

TOUCH PAD FEATURES

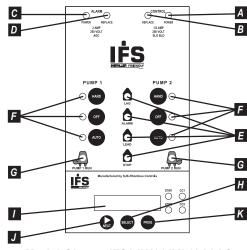
- A. Control Power Indicator/Fuse. Indicator light will illuminate if control power is present in panel.
- B. Control Fuse Replace Indicator will illuminate if control fuse is blown. Alarm will activate if control fuse is blown.
- C. Alarm Power Indicator/Fuse. Indicator light will illuminate if alarm power is present in panel.
- D. Alarm Fuse Replace Indicator will illuminate if alarm fuse is blown.
- E. Float Indicators will illuminate when floats are activated. Alarm will activate if a float operates out of sequence and the appropriate float indicator will flash.
- F. HOA (Hand-Off-Automatic) Buttons control pump mode with indication. Hand mode defaults to Automatic when stop level is reached.
- G. Pumps Run Indicators will illuminate when pumps are called to run.
- H. Select Push Button (with display board only) toggles pump operation, alternate 1-2 and 2-1 operation.
- Seven-Segment LED Display shows mode, pump elapsed time (hh:mm), events (cycles), alarm counter and pump fail. (Display is optional.)
- J. Next Push Button (with display board only) when pressed toggles display through: mode, elapsed time meter, lead/lag, cycle counters, alarm counter, and pump fail counter.
- K. Program Push Button (with display board only) when pressed puts panel in program mode.

Note: LED display will turn off after one minute of not being used.

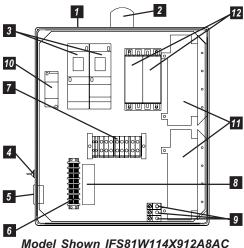
PANEL COMPONENTS

- Enclosure measures 16 x 14 x 6 inches (40.64 x 35.56 x 15.24 cm).
 NEMA 4X (ultraviolet stabilized thermoplastic with removable mounting feet for outdoor or indoor use).
- 2. Red Alarm Beacon provides 360° visual check of alarm condition.
- 3. IEC Motor Contactors control pump by switching electrical lines.
- Exterior Alarm Test/Normal/Silence Switch allows horn and light to be tested and horn to be silenced in an alarm condition. Alarm automatically resets once alarm condition is cleared.
- Alarm Horn provides audio warning of alarm condition (83 to 85 decibel rating).
- 6. Float Connection Terminal Block
- 7. Large Incoming Power and Pump Connection Terminal Block
- 8. Terminal Block Installation Label
- 9. Ground Lugs
- 10. Alarm Activation Relay
- Capacitor Start Modules start/run capacitor kits must be ordered separately.
- Circuit Breakers (optional) provide pump disconnect and branch circuit protection.

NOTE: Schematic/Wiring Diagram and Pump Specification Label are located inside the panel on enclosure cover



Model Shown IFS81W114X912A8AC (Inner door view)

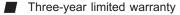


(Inside view)

Reg. Cdn Pat. & TM Off

FEATURES

- Entire control system (panel and switches) is UL Listed to meet and/or exceed industry safety standards
- Dual safety certification for the United States and Canada
- Standard package includes three 20' Sensor Float® control switches
- Complete with step-by-step installation instructions







PO Box 1708, Detroit Lakes, MN 56502 1-888-DIAL-SJE • 1-218-847-1317 1-218-847-4617 Fax

email: sje@sjerhombus.com

ALARMPACKAGE 1 = alarm package (includes test/normal/silence switch, fuse, red light, horn) Base ENCLOSURE RATING W = Weatherproof, NEMA 4X (engineered thermoplastic). Base STARTING DEVICE 1 = IEC motor contactor 120/208/240V Base PUMP FULL LOAD AMPS 0 = 0-7FLA. Base 2 = 15-20 FLA 3 = 10-30 FLA 4 = 30-40 FLA PUMP DISCONNECTS 0 = no pump disconnect 4 = circuit breaker FLOAT SWITCH APPLICATION Hor L = pump down or pump up X = no floats OPTIONS Listed below Start/run capacitor kits mustbe ordered separately (see option 12 below or califactory). ENCLOSURE UPSIZE - If one or more of the * options are selected, add a one-time \$130.00 list enclosure upsize FOAT SWITCH APPLICATION IST PRICE If additional features are required, call the factory for a quote on an Engineered Custom control panel. CODE DESCRIPTION LIST PRICE CODE DESCRIPTION LIST PRICE LIST PRICE CODE DESCRIPTION LIST PRICE CODE DESCRIPTION LIST PRICE LIST PRICE CODE DESCRIPTION LIST PRICE CODE DESCRIPTION LIST PRICE LIST PRICE CODE DESCRIPTION LIST PRICE CODE DESCRIPTION LIST PRICE CODE DESCRIPTION LIST PRICE CODE DESCRIPTION LIST PRICE CODE DESCRIPTION LIST PRICE LIST PRICE CODE DESCRIPTION LIST PRICE LIST PRICE CODE DESCRIPTION LIST PRICE CODE DESCRIPTION LIST PRICE LIST PRICE CODE DESCRIPTION LIST PRICE LIST PRICE CODE DESCRIPTION LIST PRICE LIST PRICE LIST PRICE CODE DESCRIPTION LIST PRICE	ALARMPACKAGE 1 = alarm package (includes test/normal/silence switch, fuse, red light, horn) Base		IFS8 W	V					
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30-40 FLA	30-40 FLA	★ 5A ★ 5E 6A 8AC	Thermal cutout	\$80.00 \$315.00 e\$40.00 ter, events \$100.00	11D 12B 12C 16A 16B 16C	NEMA 4X alarm Customer suppli enclosure by SJ Motor start comp SJE-Rhombus 10' cord in lieu of 15' cord in lieu of 30' cord in lieu of	ed motor s E-Rhombus conent, mo of 20' (per of 20' (per of 20' (per	tart components, sunted and supplications float)float)float)	A)\$17 mounted in\$11 ed byCall Fac\$\$\$\$
10E Lockable latch	10E Lockable latch	★ 5A ★ 5E 6A 8AC	Thermal cutout	\$80.00 \$315.00 e\$40.00 eer, events \$100.00 followed	11D 12B 12C 16A 16B 16C 16D	NEMA 4X alarm Customer suppli enclosure by SJ Motor start comp SJE-Rhombus 10' cord in lieu of 15' cord in lieu of 30' cord in lieu of 40' cord in lieu of	ed motor seed motor se	tart components, sunted and supplications float)float]	A)\$17 mounted in\$11 ed byCall Fac\$\$1
10F Lightning arrester	10F Lightning arrester	★ 5A ★ 5E 6A 8AC	Thermal cutout	\$80.00\$315.00 e\$40.00 ter, events\$100.00 followed amp pump\$120.00	11D 12B 12C 16A 16B 16C 16D 17C	NEMA 4X alarm Customer suppli enclosure by SJ Motor start comp SJE-Rhombus 10' cord in lieu of 30' cord in lieu of 40' cord in lieu of Sensor Float® /	ed motor s E-Rhombur bonnent, mo f 20' (per nternally w	tart components, s unted and supplication float) float) float) float) float)	A)\$17' mounted in\$11' ed byCall Fac\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$
10K Anti-condensation heater\$100.00 L 19F Fourth float to separate alarm from lag\$29 11C NEMA 1 alarm panel\$65.00	10K Anti-condensation heater\$100.00 L 19F Fourth float to separate alarm from lag\$29 11C NEMA 1 alarm panel\$65.00	* 5A * 5E 6A 8AC 9_A	Thermal cutout	\$80.00\$315.00 e\$40.00 ter, events\$100.00 followed amp pump\$120.00\$200.00	11D 12B 12C 16A 16B 16C 16D 17C 17D	NEMA 4X alarm Customer suppli enclosure by SJ Motor start comp SJE-Rhombus 10' cord in lieu of 30' cord in lieu of 40' cord in lieu of Sensor Float® / Sensor Float® /	ed motor s E-Rhombu conent, mo f 20' (per of 20' (per	tart components, s unted and supplication float) float) float) reighted (per float) weighted (per float)	A) \$170 mounted in \$110 ed by Call Fac \$ \$ \$110 st) \$110
		* 5A * 5E 6A 8AC 9_A	Thermal cutout	\$80.00\$315.00 e\$40.00 ter, events\$100.00 followed amp pump\$120.00\$200.00\$40.00	11D 12B 12C 16A 16B 16C 17C 17D 17G 17H	NEMA 4X alarm Customer suppli enclosure by SJ Motor start comp SJE-Rhombus 10' cord in lieu of 30' cord in lieu of 40' cord in lieu of Sensor Float® / Sensor Float® / SJE MilliAmpMa SJE MilliAmpMa	ed motor s E-Rhombu- conent, mo conent, mo conent, mo conent, mo conent, mo conent, mo f 20' (per of 20' (per of 20' (p	tart components, s	A)
(must select option 6A)	(must select option 6A)	* 5A * 5E 6A 8AC 9_A 10E 10F	Thermal cutout	\$80.00\$315.00 e\$40.00 ter, events\$100.00 followed amp pump\$120.00\$40.00\$40.00	11D 12B 12C 16A 16B 16C 17C 17D 17G 17H	NEMA 4X alarm Customer suppli enclosure by SJ Motor start comp SJE-Rhombus 10' cord in lieu of 30' cord in lieu of 40' cord in lieu of Sensor Float® / Sensor Float® / SJE MilliAmpMa SJE MilliAmpMa	ed motor s E-Rhombu- conent, mo conent, mo conent, mo conent, mo conent, mo conent, mo f 20' (per of 20' (per of 20' (p	tart components, s	A)
		* 5A * 5E 6A 8AC 9_A 10E 10F 10K	Thermal cutout	\$80.00\$315.00 e\$40.00 ter, events\$100.00 followed amp pump\$120.00\$40.00\$160.00\$100.00	11D 12B 12C 16A 16B 16C 17C 17D 17G 17H	NEMA 4X alarm Customer suppli enclosure by SJ Motor start comp SJE-Rhombus 10' cord in lieu of 30' cord in lieu of 40' cord in lieu of Sensor Float® / Sensor Float® / SJE MilliAmpMa SJE MilliAmpMa	ed motor s E-Rhombu- conent, mo conent, mo conent, mo conent, mo conent, mo conent, mo f 20' (per of 20' (per of 20' (p	tart components, s	A)
		* 5A * 5E 6A 8AC 9_A 10E 10F 10K	Thermal cutout	\$80.00\$315.00 e\$40.00 ter, events\$100.00 followed amp pump\$120.00\$40.00\$160.00\$100.00	11D 12B 12C 16A 16B 16C 17C 17D 17G 17H	NEMA 4X alarm Customer suppli enclosure by SJ Motor start comp SJE-Rhombus 10' cord in lieu of 30' cord in lieu of 40' cord in lieu of Sensor Float® / Sensor Float® / SJE MilliAmpMa SJE MilliAmpMa	ed motor s E-Rhombu- conent, mo conent, mo conent, mo conent, mo conent, mo conent, mo f 20' (per of 20' (per of 20' (p	tart components, s	A)
		* 5A * 5E 6A 8AC 9_A 10E 10F 10K	Thermal cutout	\$80.00\$315.00 e\$40.00 ter, events\$100.00 followed amp pump\$120.00\$40.00\$160.00\$100.00	11D 12B 12C 16A 16B 16C 17C 17D 17G 17H	NEMA 4X alarm Customer suppli enclosure by SJ Motor start comp SJE-Rhombus 10' cord in lieu of 30' cord in lieu of 40' cord in lieu of Sensor Float® / Sensor Float® / SJE MilliAmpMa SJE MilliAmpMa	ed motor s E-Rhombu- conent, mo conent, mo conent, mo conent, mo conent, mo conent, mo f 20' (per of 20' (per of 20' (p	tart components, s	A)