

Liberty Pumps®

ISS-Series Simplex ISD-Series Duplex

Intrinsically Safe Control Panels

Standard Features:

- Intrinsically safe relays and wiring terminals for float controls
 - NEMA 4X enclosure
 - Magnetic motor contactor(s)
 - Hands-Off-Auto switch(s)
 - Green pump run indicator(s)
- Terminal block for easy wiring
 - Red alarm beacon
 - Audible horn (83-85 db)
 - Auxiliary dry contacts
- Seal fail indicator light(s) and test switch
- Prewired for capacitors (single phase models)



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ISS-Series Simplex ISD-Series Duplex

Intrinsically Safe Control Panels

ISS-Series and ISD-Series control panels are designed for use with pumps installed in hazardous environments. These panels, when used with explosion-proof rated pumps, provide a safe system that will not allow ignition of explosive gases. All ISS and ISD panels must be installed outside of the hazardous environment and all conduits leading to the panel must be sealed in accordance with section 501-5 of the NEC. Installation by a qualified electrician in accordance with all applicable national and local codes required.

ISS-Series SIMPLEX Models

MODEL	VOLTS	FULL LOAD AMPS	PHASE	ENCLOSURE	WGT. LBS.
ISS24LC1=3-5	120/208/240	0 – 15	1	NEMA 4X	30
ISS24HS1=3-5	120/208/240	20 – 30	1	NEMA 4X	30
ISS34=3-131-5	208/240/480	1.6 – 2.5	3	NEMA 4X	30
ISS34=3-141-5	208/240/480	2.5 – 4.0	3	NEMA 4X	30
ISS34=3-171-5	208/240/480	4.0 – 6.3	3	NEMA 4X	30
ISS34=3-191-5	208/240/480	6.0 – 10.0	3	NEMA 4X	30
ISS34=3-511-5	208/240/480	9.0 – 14.0	3	NEMA 4X	30
ISS54=3-121-5	575	1.6 – 2.5	3	NEMA 4X	30
ISS54=3-151-5	575	2.5 – 4.0	3	NEMA 4X	30
ISS54=3-161-5	575	4.0 – 6.3	3	NEMA 4X	30

ISD-Series DUPLEX Models

MODEL	VOLTS	FULL LOAD AMPS	PHASE	ENCLOSURE	WGT. LBS.
ISD24LC2=3-5	120/208/240	0 – 15	1	NEMA 4X	33
ISD24HS2=3-5	120/208/240	20 – 30	1	NEMA 4X	33
ISD34=3-131-5	208/240/480	1.6 – 2.5	3	NEMA 4X	33
ISD34=3-141-5	208/240/480	2.5 – 4.0	3	NEMA 4X	33
ISD34=3-171-5	208/240/480	4.0 – 6.3	3	NEMA 4X	33
ISD34=3-191-5	208/240/480	6.0 – 10.0	3	NEMA 4X	33
ISD34=3-511-5	208/240/480	9.0 – 14.0	3	NEMA 4X	33
ISD54=3-121-5	575	1.6 – 2.5	3	NEMA 4X	33
ISD54=3-151-5	575	2.5 – 4.0	3	NEMA 4X	33
ISD54=3-161-5	575	4.0 – 6.3	3	NEMA 4X	33

SWITCH SPECIFICATIONS:

All panels include (3) pilot-duty float switches.
50' standard cord length.
5 amp, 120/230V, 50/60 Hz.
140° F. maximum fluid temperature.

ENCLOSURE

NEMA 4X
Ultraviolet stabilized thermoplastic for outdoor or indoor installations.

DIMENSIONS

	Width	Height	Depth
ISS-Series	14"	16"	6"
ISD-Series	16.5"	18.5"	7.5"

NOTES: ISS and ISD panels come with a variable amp range and must be ordered to correctly match the full load amperage of the pump(s) being used. Use the chart above or consult factory for proper panel sizing.

Three-phase panels are equipped with thermal overload protection; failure to utilize this feature with Liberty Pumps X-Series products will de-rate the "T" classification of the pump. See pump installation manuals for details.

All ISS and ISD-Series panels are shipped with 3 control floats.
Standard float cord length is 50'.

Consult factory for 4-float systems and other panel options.

Consult factory for proper panel sizing.

Consult X-Series literature and panel selection guide for appropriate panel and capacitor selection.

Dual safety certification for
the United States and Canada

Specifications are subject to
change without notice.

