

ISS-Series Simplex ISD-Series Duplex

Intrinsically Safe Control Panels

Liberty Pumps®

A Family and Employee Owned Company

Features

- Intrinsically safe relays and wiring terminals for float controls
- NEMA 4X enclosure
- Magnetic motor contactor(s)
- Hand-off-auto switch(es)
- 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 run capacitor (single-phase models)



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ISS-Series Simplex ISD-Series Duplex

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.

ISS-Series SIMPLEX Models

MODELS	VOLTS	FULL LOAD AMPS	PHASE	ENCLOSURE	WEIGHT IN 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

MODELS	VOLTS	FULL LOAD AMPS	PHASE	ENCLOSURE	WEIGHT IN 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
5A, 120/230 V, 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"

NOTE: ISS and ISD-Series 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.

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

Consult factory for proper panel sizing.

Consult X-Series literature.