

# SER SERIES

## Household voltage. Industrial power.

Need a 115V or 220V single phase powered hoist with the duty cycle of a three-phase hoist? Look no further than the SER. Designed to exceed H4 industrial use ratings, the SER is equipped with a TEFC motor and a maintenance-free, self-adjusting, pull-rotor brake. That means you'll get a single phase hoist that's able to handle the long lifts and long shifts of any industrial job.

### Extreme-Duty, Single-Phase Fan-Cooled Motor

The SER electric hoist is equipped with a 60-minute H4-rated motor which is unmatched in a single-phase offering. Built for extremes, the SER delivers proven performance in the most demanding applications.

### Self-Adjusting Maintenance-Free Brake

With no brake coil to fail or discs to replace, the electromagnetic pull rotor brake on the SER is self-adjusting and virtually maintenance-free.

### Long-Life Friction Clutch

The friction clutch is designed to last so you can focus on the job at hand. Keep lifting longer with protection from overloading and overwinding which can damage the hoist.

### Heavy Cast-Iron Chain Guide

The heavy cast-iron chain guide provides quiet and smooth chain movement. Easily removed without disassembly of the hoist, it allows for easy maintenance in those demanding heavy-duty applications.

### Oil Bath-Lubricated, Heat-Treated Gearing

Kito's own heat-treating process increases the overall hardness and strength of internal parts which run smoothly when immersed in an oil bath. This extends service life by reducing friction, vibration and heat.



# SER SERIES

## CAPACITY

- ¼ to 3 metric tonnes

## STANDARDS

- CSA approved
- Meets ASME B30.16
- ASME 4
- IP55 dust-tight and watertight environmental protection
- At rated capacity, load-bearing parts are only stressed to 25% of their limit

## OPTIONS

- Plastic, canvas or steel chain containers
- Lift lengths can be customized to suit requirements
- Plain or geared trolley mount

## BODY

- Die-cast aluminum frame
- Completely sealed body
- Low headroom profile

## GEARS

- Induction-hardened, durable alloy steel helical and spur gears submersed in an oil bath

## LOAD CHAIN

- Grade 80
- Nickel-plated and corrosion-resistant

## CHAIN GUIDE

- Long-lasting, heavy-duty cast iron construction, easily replaced without disassembling hoist

## HOOKS

- Forged carbon steel opens gradually without fracturing under excessive loads. Bottom hook swivels 360 degrees
- Self-closing top and bottom hooks with heavy-duty hook latch

## CONTROLS

- Located on one central electrical panel
- Control Voltage: 110 volts

## PUSH BUTTON STATION

- Impact-resistant plastic with molded strain relief to avoid damage from pulling on the push button cord
- IP65 dust-tight and watertight environmental protection

## BEARINGS

- High-quality, anti-friction ball and roller design

## BRAKE

- Durable and reliable pull-rotor motor brake

## MOTOR

- Single phase
- Totally enclosed fan cooled (TEFC) squirrel cage
- Re-connectable Voltage: 115/230-1-60
- Insulation class B
- Hertz: 60
- 60 minute, H4 rated, fan cooled for demanding applications

## OVERLOAD PROTECTION

- Long-life friction clutch protects hoist from excessive overload damage

## OVERTRAVEL PROTECTION

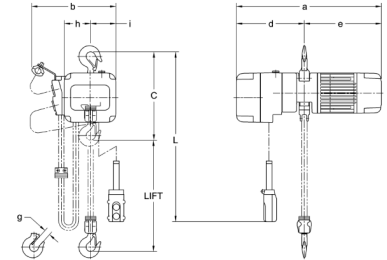
- Limit switch disables controls when load block reaches upper or lower travel limit

## OPERATING CONDITIONS

- Recommended for -20° to +40° C and humidity of 85 per cent or lower

# SER

## HEAVY-DUTY SINGLE SPEED HOIST - 115V, 220V HOOK MOUNT



### DIMENSIONS

Capacity (tonne)	Model	C	a	b	d	e	g	h	i
¼	SER003S	13.8	22.2	13.0	10.4	11.9	0.9	4.0	3.9
½	SER005L	14.0	22.2	13.0	10.4	11.9	0.9	4.0	3.9
½	SER005S	14.6	23.2	13.8	10.6	12.6	0.9	4.7	4.1
1	SER010L	16.1	23.2	13.8	10.6	12.6	1.2	4.7	4.1
1	SER010S	17.3	26.9	16.5	12.4	14.4	1.2	6.1	5.2
2	SER020L	22.6	26.9	16.5	12.4	14.4	1.5	6.1	5.2
3	SER030C	29.5	26.9	16.5	12.4	14.4	1.7	8.2	3.0

### SPECIFICATIONS

Capacity (tonne)	Model	Standard Lift (ft)	Max Lift (ft)	Lift Speed (ft/min)	Hoist Motor H.P.	Headroom (in)			Load Chain Falls	Rated Current (amps)		Ship Weight (lbs)	Weight per Additional 5ft of Lift (lbs)
						Hook Mount	Plain Trolley	Geared Trolley		115V	220V		
¼ t	SER003S	10	196	14	0.34	13.8	15.4	16.1	1	7.7	3.9	82	2
½ t	SER005L	10	196	7	0.34	14	15.4	16.1	1	7.7	3.9	84	3
½ t	SER005S	10	196	15	0.6	14.6	16.1	16.9	1	16.9	8.5	104	3
1 t	SER010L	10	196	7	0.6	16.1	18.1	18.1	1	16.9	8.5	110	5
1 t	SER010S	10	196	14	1.2	17.3	19.5	19.5	1	23.9	12	159	5
2 t	SER020L	10	196	7	1.2	22.6	24.6	24.6	1	23.9	12	174	8
3 t	SER030C	10	164	3.5	1.2	29.5	29.3	29.3	2	23.9	12	207	16