

Compact! Light! Easy!

## **KITO ELECTRIC CHAIN HOIST** **ED III SERIES SINGLE-PHASE**



# ED III SERIES

# SINGLE-PHASE AC120V or 240V(max)

- High speed lifting/lowering
- Compact design minimizes headroom
- Powerful and high performance
- High performance mechanical brake
- Overload protection
- Compact and lightweight. 100 kg type weighs just 11.5 kg standard lift.
- Mini Trolley expands application range.
- Enclosure: IP54(Hoist Body), IP65(Push Button Switch), IP44(Cylinder Switch)

## High strength, wear and rust resistant Nickel-plated Load Chain

### Specifications

Rated capacity:	60kg to 480kg
Voltage:	Single phase AC 120V or 240V (max) both for 50Hz and 60Hz
Control voltage:	Direct control is standard. Low voltage is available as an option.
Motor insulation:	Class F
Enclosure:	Single speed/Dual speed - IP54 Cylinder - IP44
Suspension varieties:	Hook, mini trolley, universal trolley
Operating temperature:	-20 to 40 °C (-4 to 104 °F)
Operating humidity:	85%RH or less
Voltage range available from	110 to 120V(max) or 220 to 240V(max)

#### Increased safety

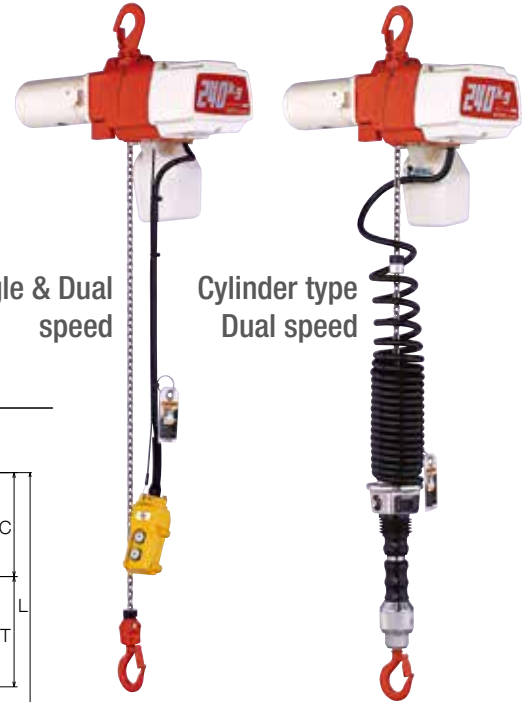
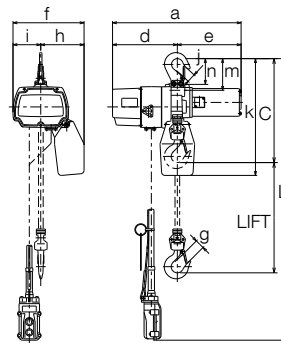
(60kg to 480kg)



Upper limit switch

Chain spring (Option)

### 60kg to 240kg



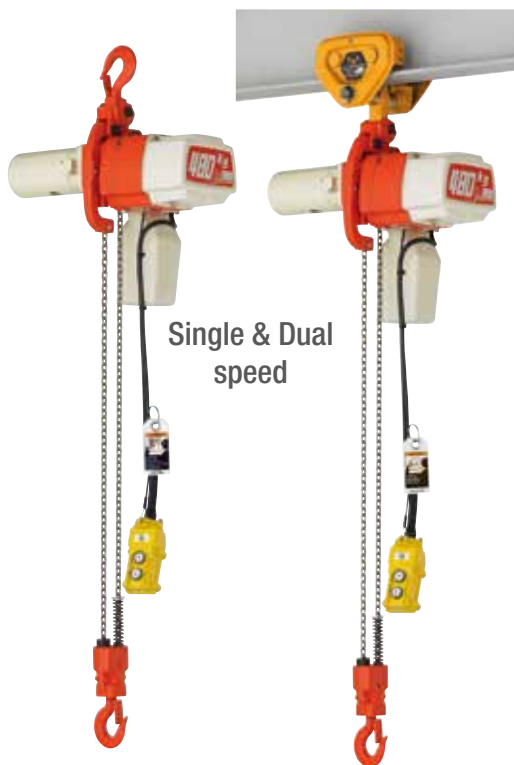
### 60kg to 240kg

Power supply		120V or 240V 50Hz/60Hz																	
Type		Single speed type					Dual speed type					Cylinder type							
Product code		ED06S	ED10S	ED18S	ED16S	ED24S	ED06ST	ED10ST	ED18ST	ED16ST	ED24ST	EDC06SD	EDC10SD	EDC18SD	EDC16SD	EDC24SD			
Rated load (W.L.L.)	(kg)	60	100	180	160	240	60	100	180	160	240	60	100	180	160	240			
Motor output	(W)	300					300					300							
Short time rating	(min)	15(20)*1		10(15)*1		20		15(20)*1		10(15)*1		20		15(20)*1		10(15)*1			
Intermittent rating	%ED	30		20		30		30		20		30		20		30			
	Max.number of starts per hour	180		120		180		180		120		180		120		180			
Rated current	(A)	5		6		10		5		6		10		5		6			
		3		5		3		5		3		5		3		5			
Lifting speed	(m/min)	High	21	13	8	20	13.5	21	13	8	20	13.5	21	13	8	20	13.5		
	Low	—	—	—	—	—	4	3	3	4	3	4	3	3	4	3			
Standard lift	(m)	3					3					1.8							
Push button cord length	L(m)	2.5					2.5					—							
Load chain diameter	(mm)	4					4					4							
Mass [net weight]	(kg)	11.5 (12)*2			15.5 (16)*2			12 (12.5)*2			16 (16.5)*2			14.5 (15)*2			18.5 (19)*2		
Dimensions	C (mm)	315		330		315		330		945		960							
		a	371 (364)*1		428		371 (364)*1		428		371 (364)*1		428						
		d	187		205		187		205		187		205						
		e	184 (177)*1		223		184 (177)*1		223		184 (177)*1		223						
		f	205		219		205		219		205		219						
		h	125		135		125		135		125		135						
		i	80		84		80		84		80		84						
		g	25					25					25						
		j	25					25					25						
		k	340		362		340		362		340		362		340		362		
		m	92					92					92						
		n	73					73					73						

- Control: Direct control is standard. Low voltage is available upon request. •Power supply cable: 2mm<sup>2</sup> x 3 conductors x 5m with grounding wire.
- The lifting speed is the average of the lifting / lowering speed under the rated load. The speed will vary in a load or voltage.
- W.L.L.: Indicates maximum load (working load limit) which a hoist is designed to support in general service.
- In case of with mini trolley, dimensions "C" and "k" are shorter by 45mm.
- \*1: Figures in parentheses show the data for 240V(max). •\*2: Mass in parentheses are at Low voltage control 27V.

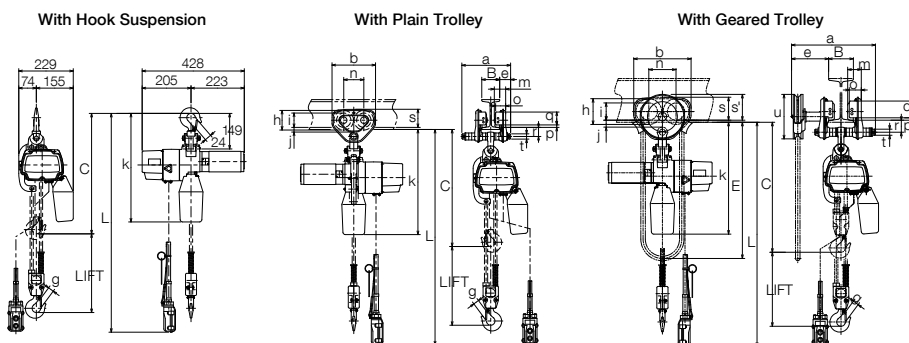
Voltage range available from 110 to 120V(max) or 220 to 240V(max).  
The lifting speed varies according to the decreasing of the voltage.

Capacity **60kg to 480kg**



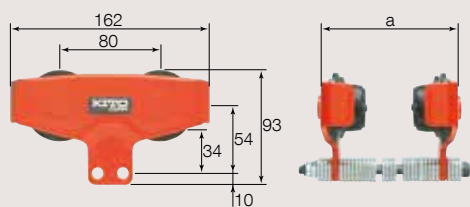
Single & Dual speed

### 480kg



### Trolley for 60 to max.250kg

#### Mini Trolley TMH25



Beam Width	a	Min Radius	Mass (Net weight)
50mm to 100mm	94mm to 144mm	600mm	1.9kg

### Trolley for max.480kg

#### Universal Trolleys TS Series

Plain Trolley



Geared Trolley



480kg		120V or 240V		50Hz/60Hz	
Power supply		Single speed type		Dual speed type	
Type		ED48S	ED48S+PT*3	ED48ST	ED48ST+PT*3
Product code		ED48S+GT*4		ED48ST+GT*4	
Rated load (W.L.L.) (kg)		480			
Motor output (W)		600			
Short time rating (min)		15			
Intermittent rating	%ED	30			
	Max.number of starts per hour	180			
Rated current (A)	120V	10			
	240V	5			
Lifting speed (m/min)	High	6.7			
	Low	—		2	
Standard lift (m)		3			
Push button cord length L (m)		2.5			
Hand chain folded length (m)		—	2.7	—	2.7
Load chain diameter (mm)		4			
Mass [net weight] (kg)		21(21.5)*2	25(25.5)*2	34(34.5)*2	21(21.5)*2
		25(25.5)*2	34(34.5)*2	—	25(25.5)*2
		34(34.5)*2	—	34(34.5)*2	—
Headroom C (mm)		520	535	520	535
Flange width adjustability B (mm)		—	50 to 102	75 to 125	—
		—	50 to 102	75 to 125	—
Minimum radius for curve (mm)		—	1100	1300	—
		—	1100	1300	—
Dimensions (mm)	k	454	469	454	469
	g	24	24	24	24
	a	—	204	345	—
			204	345	—
	b	—	182	236	—
			182	236	—
	e	—	46	152	—
			46	152	—
	h	—	82	106	—
			82	106	—
	i	—	60	71	—
			60	71	—
	j	—	19	28	—
			19	28	—
	s	—	76	95	—
			76	95	—
	s'	—	—	106	—
		—	106	—	
m	—	47.5	56	—	
		47.5	56	—	
n	—	84	112	—	
		84	112	—	
o	—	42	50	—	
		42	50	—	
p	—	10	10	—	
		10	10	—	
q	—	54	69	—	
		54	69	—	
r	—	38	50	—	
		38	50	—	
t	—	22	25	—	
		22	25	—	
u	—	—	183	—	
		—	183	—	

- Control: Direct control is standard. Low Voltage is available upon request.
- Power supply cable: 2mm<sup>2</sup> x 3 conductors x 5m with grounding wire.
- The lifting speed is the average of the lifting / lowering speed under the rated load. The speed will vary in a load or voltage.
- W.L.L.: Indicates maximum load (working load limit) which a hoist is designed to support in general service.
- \*2: Mass in parentheses are at Low voltage control 27V.
- \*3: Connected with Plain trolley. •\*4: Connected with Geared trolley.





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