

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) |

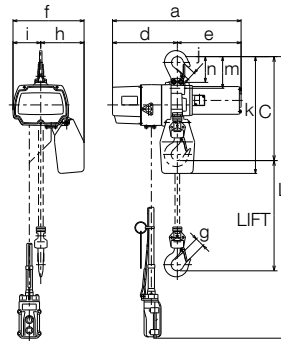
Increased safety
(60kg to 480kg)

Upper limit switch

Chain spring (Option)

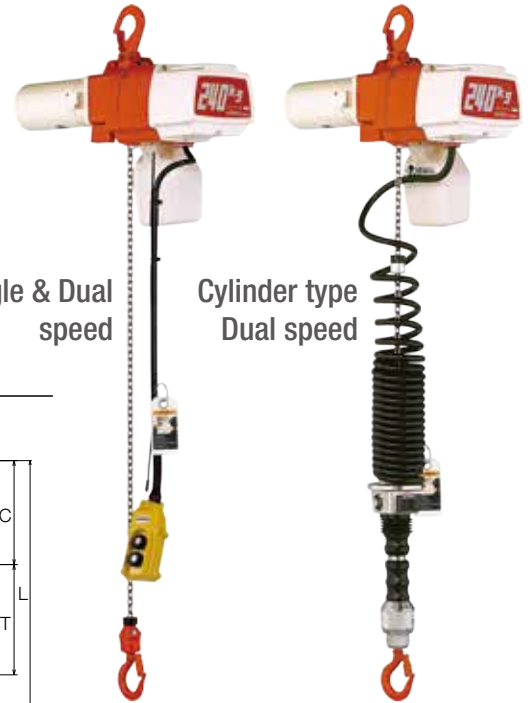


60kg to 240kg



Single & Dual speed

Cylinder type Dual speed



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 | | 20 | | | | | |
| Intermittent rating | %ED | 30 | | 20 | | 30 | 30 | | 20 | | 30 | 30 | | 20 | | 30 | | | | | |
| | Max.number of starts per hour | 180 | | 120 | | 180 | 180 | | 120 | | 180 | 180 | | 120 | | 180 | | | | | |
| Rated current (A) | 120V | 5 | | 6 | | 10 | 5 | | 6 | | 10 | 5 | | 6 | | 10 | | | | | |
| | 240V | 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 (mm) | C | 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 | | | | |
| | m | 92 | | | | | 92 | | | | | 92 | | | | | | | | | |
| | n | 73 | | | | | 73 | | | | | 73 | | | | | | | | | |

- Control: Direct control is standard. Low voltage is available upon request. •Power supply cable: 2mm² 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.

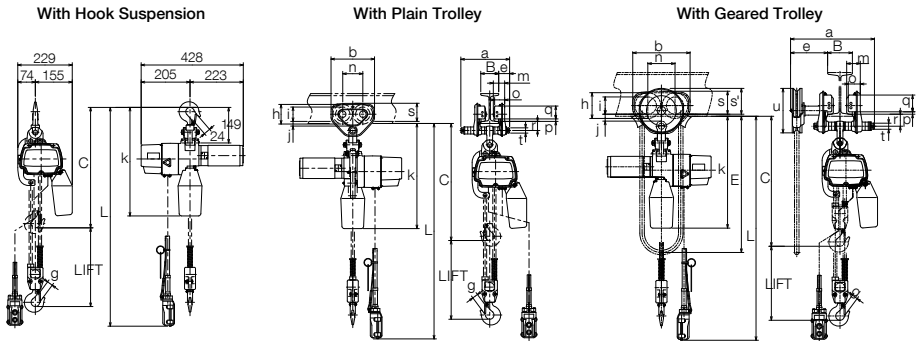
Voltage range available from 110 to 120V(max) or 220 to 240V(max).
The lifting speed varies according to the decreasing of the voltage.

Capacity **60kg to 480kg**



Single & Dual speed

480kg

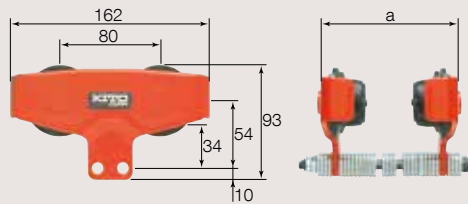


480kg

| Power supply | | 120V or 240V | | 50Hz/60Hz | | | |
|-----------------------------------|-------------------------------|-------------------|------------|-----------------|------------|-------------|-------------|
| Type | | Single speed type | | Dual speed type | | | |
| Product code | | ED48S | ED48S+PT*3 | ED48S+GT*4 | ED48ST | ED48ST+PT*3 | ED48ST+GT*4 |
| Rated load (W.L.L.) (kg) | | 480 | | 600 | | | |
| Motor output (W) | | 600 | | 15(20)*1 | | | |
| Short time rating (min) | | 30 | | 180 | | | |
| Intermittent rating | %ED | 10 | | 5 | | | |
| | Max.number of starts per hour | 6.7 | | 2 | | | |
| Rated current (A) | 120V | — | | 2 | | | |
| | 240V | — | | — | | | |
| Lifting speed (m/min) | High | — | | — | | | |
| | Low | — | | 2 | | | |
| Standard lift (m) | | 3 | | 3 | | | |
| Push button cord length L (m) | | 2.5 | | 2.5 | | | |
| Hand chain folded length (m) | | — | | 2.7 | | — | |
| Load chain diameter (mm) | | 4 | | 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 |
| Headroom C (mm) | | 520 | | 535 | | 520 | |
| Flange width adjustability B (mm) | | — | | 50 to 102 | | 75 to 125 | |
| Minimum radius for curve (mm) | | — | | 1100 | | 1300 | |
| Dimensions (mm) | k | 454 | | 469 | | 454 | |
| | g | 24 | | 24 | | 24 | |
| | a | — | | 204 | | — | |
| | b | — | | 182 | | — | |
| | e | — | | 46 | | — | |
| | h | — | | 82 | | — | |
| | i | — | | 60 | | — | |
| | j | — | | 19 | | — | |
| | s | — | | 76 | | — | |
| | s' | — | | 106 | | — | |
| | m | — | | 47.5 | | — | |
| | n | — | | 84 | | — | |
| | o | — | | 42 | | — | |
| | p | — | | 10 | | — | |
| | q | — | | 54 | | — | |
| | r | — | | 38 | | — | |
| | t | — | | 22 | | — | |
| u | — | | 183 | | — | | |

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



- Control: Direct control is standard. Low Voltage is available upon request.
- Power supply cable: 2mm² 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.
- *1: Figures in parentheses show the data for 240V(max).
- *2: Mass in parentheses are at Low voltage control 27V.
- *3: Connected with Plain trolley. •*4: Connected with Geared trolley.



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KITO

KITO CORPORATION
 SHINJUKU NS Bldg. 9F, 2-4-1 Nishi-Shinjuku, Shinjuku-ku, Tokyo 163-0809 JAPAN
 TEL: +81-3-5908-0180 FAX: +81-3-5908-0189
 www.kito.co.jp

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