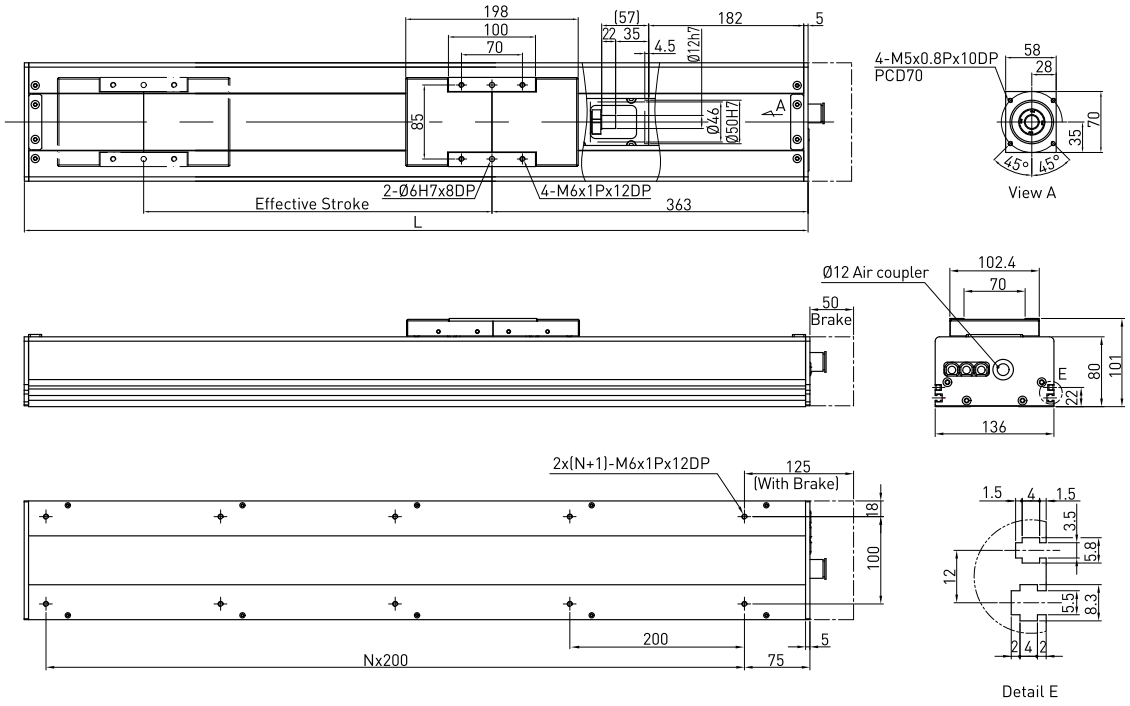
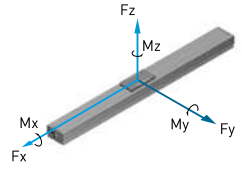
# Model Number for KS140-FI

| KS140 | -20 | P | -1100 | A | FI | S2 | M |
|---|---|---|---|---|---|---|---|
| Model | Lead | Precision Grade | Effective Stroke | Slider Type | Motor Flange | Limit Switch | Motor |
| | 10mm<br>20mm | P:<br>Precision<br>C:<br>Normal | | A:<br>Standard | FI: Internal | S2:<br>OMRON SX674<br>None:<br>Without Sensor | M: Supplied With Motor<br>None:<br>Without Motor |




| Effective stroke (mm) | L | N | Weight (kg) |
|---|---|---|---|
| 200 | 700 | 3 | 13.5 |
| 300 | 800 | 3 | 14.7 |
| 400 | 900 | 4 | 15.9 |
| 500 | 1000 | 4 | 17.1 |
| 600 | 1100 | 5 | 18.3 |
| 700 | 1200 | 5 | 19.5 |
| 800 | 1300 | 6 | 20.7 |
| 900 | 1400 | 6 | 21.9 |
| 1000 | 1500 | 7 | 23.2 |
| 1100 | 1600 | 7 | 24.4 |

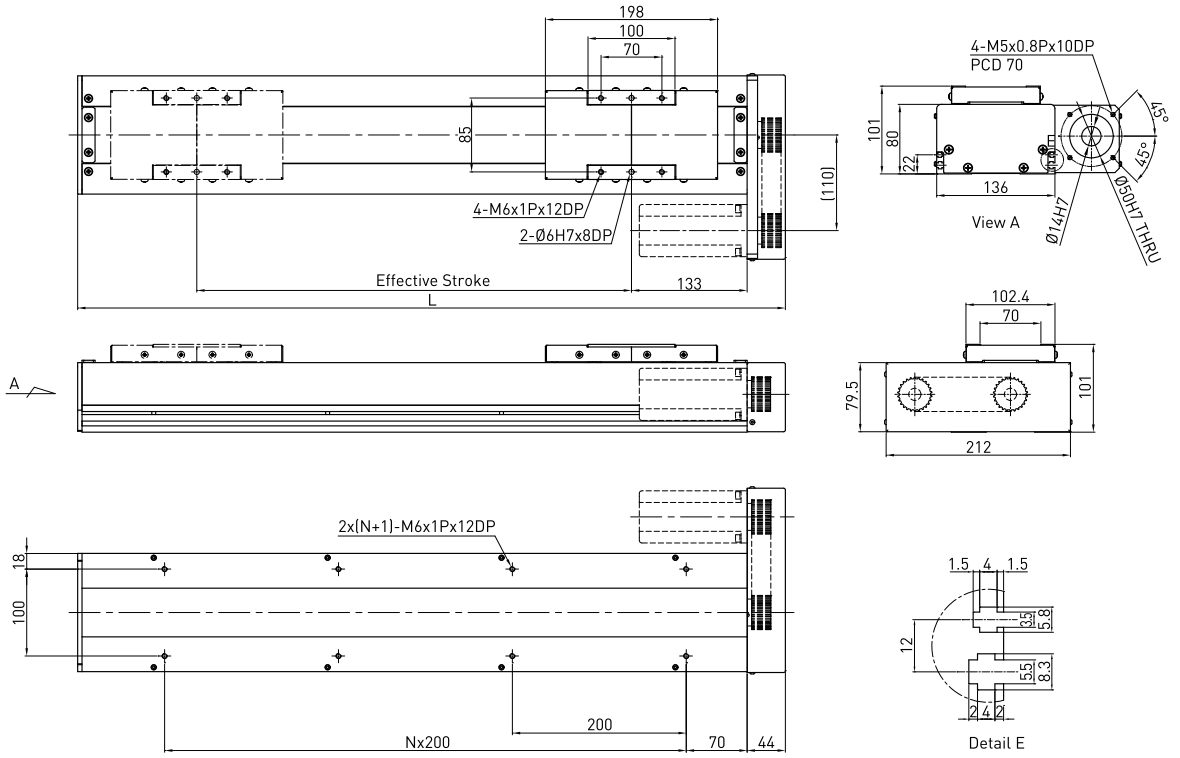
| | | | | | |
|---|---|---|---|---|---|
| AC motor output | | | W | 200 | |
| Drive | | | | Ballscrew C7(normal) | |
| Lead | | | mm | 10 | 20 |
| Rated RPM | | | RPM | 3000 | 3000 |
| Max linear speed* | | | mm/sec | 500 | 1000 |
| Rated thrust | | | N | 280 | 140 |
| Repeatability | | | mm | ±0.02 | |
| Effective stroke | | | mm | 100~1050 | |
| Max load (H) | | | kg | 82 | 40 |
| Rated dynamic load** |  | Fyd | N | 50 | 50 |
| | | Fzd | N | 820 | 400 |
| | | Mxd | N-m | 60 | 66 |
| | | Myd | N-m | 80 | 86 |
| | | Mzd | N-m | 20 | 26 |
| Permitted load condition*** | $\frac{Fy}{Fyd}+\frac{Fz}{Fzd}+\frac{Mx}{Mxd}+\frac{My}{Myd}+\frac{Mz}{Mzd}\leq 1$<br>Fy, Fz, Mx, My, Mz are working loads | | | | |



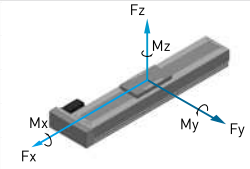
* Vibration might occur when the effective stroke is longer than 700mm.
The maximum speed should be decreased by 15% for every 100mm of increased stroke.
** The load condition is based on 10,000km operation.
*** If used on the vertical axis or in a special condition, please contact HIWIN.

# Model Number for KS140-FL

| KS140 | -20 | P | -1100 | A | FL | S2 | M |
|---|---|---|---|---|---|---|---|
| Model | Lead | Precision Grade | Effective Stroke | Slider Type | Motor Flange | Limit Switch | Motor |
| | 10mm<br>20mm | P:<br>Precision<br>C:<br>Normal | | A:<br>Standard | FL: Left | S2:<br>OMRON SX674<br>None:<br>Without Sensor | M: Supplied With Motor<br>None:<br>Without Motor |




| Effective stroke (mm) | L | N | Weight (kg) |
|---|---|---|---|
| 200 | 514 | 1 | 11.5 |
| 300 | 614 | 2 | 13.0 |
| 400 | 714 | 2 | 14.5 |
| 500 | 814 | 3 | 16.0 |
| 600 | 914 | 3 | 17.5 |
| 700 | 1014 | 4 | 19.0 |
| 800 | 1114 | 4 | 20.5 |
| 900 | 1214 | 5 | 22.0 |
| 1000 | 1314 | 5 | 23.5 |
| 1100 | 1414 | 6 | 25.0 |

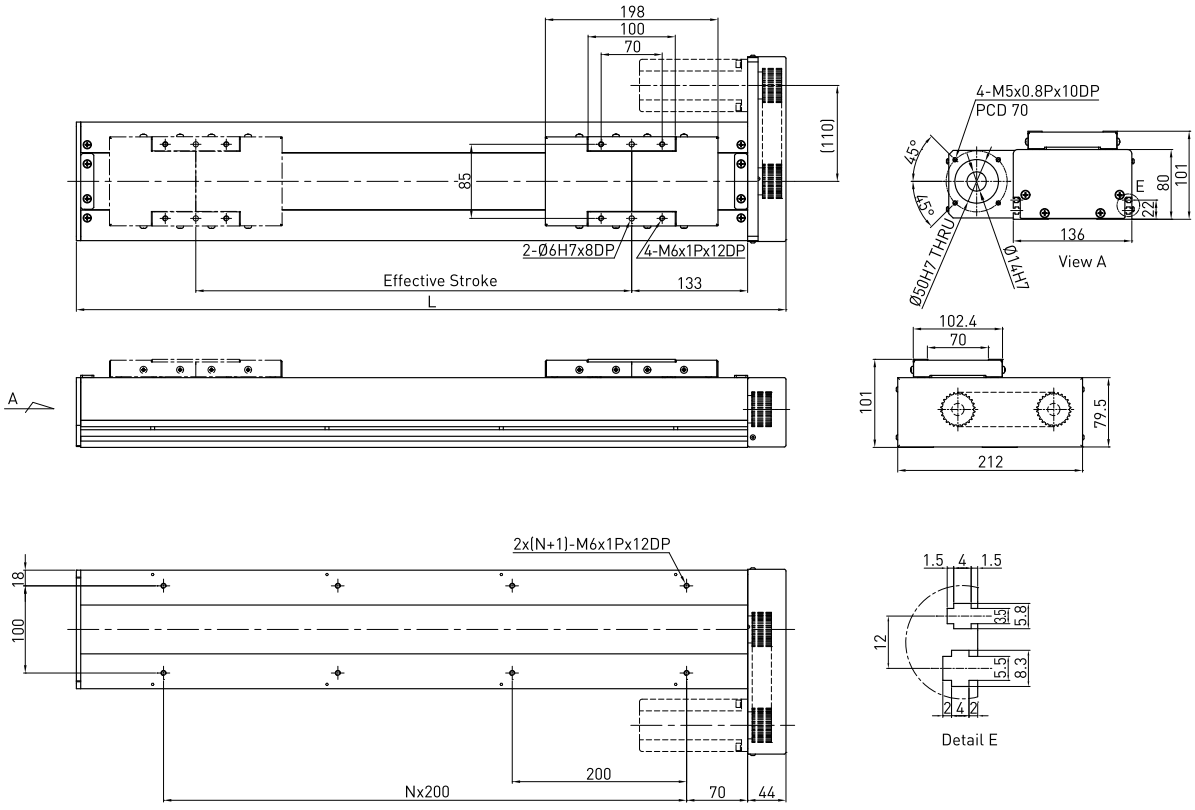
| | | | | | |
|---|---|---|---|---|---|
| AC motor output | | | W | 200 | |
| Drive | | | | Ballscrew C7(normal) | |
| Lead | | | mm | 10 | 20 |
| Rated RPM | | | RPM | 3000 | 3000 |
| Max linear speed* | | | mm/sec | 500 | 1000 |
| Rated thrust | | | N | 280 | 140 |
| Repeatability | | | mm | ±0.02 | |
| Effective stroke | | | mm | 100~1050 | |
| Max load (H) | | | kg | 82 | 40 |
| Rated dynamic load** |  | Fyd | N | 50 | 50 |
| | | Fzd | N | 820 | 400 |
| | | Mxd | N-m | 60 | 66 |
| | | Myd | N-m | 80 | 86 |
| | | Mzd | N-m | 20 | 26 |
| Permitted load condition*** | $\frac{Fy}{Fyd}+\frac{Fz}{Fzd}+\frac{Mx}{Mxd}+\frac{My}{Myd}+\frac{Mz}{Mzd}\le 1$<br>Fy, Fz, Mx, My, Mz are working loads | | | | |



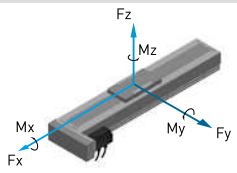
* Vibration might occur when the effective stroke is longer than 700mm.
The maximum speed should be decreased by 15% for every 100mm of increased stroke.
** The load condition is based on 10,000km operation.
*** If used on the vertical axis or in a special condition, please contact HIWIN.

# Model Number for KS140-FR

| KS140 | -20 | P | -1100 | A | FR | S2 | M |
|---|---|---|---|---|---|---|---|
| Model | Lead | Precision Grade | Effective Stroke | Slider Type | Motor Flange | Limit Switch | Motor |
| | 10mm<br>20mm | P:<br>Precision<br>C:<br>Normal | | A:<br>Standard | FR: Right | S2:<br>OMRON SX674<br>None:<br>Without Sensor | M: Supplied With Motor<br>None:<br>Without Motor |




| Effective stroke (mm) | L | N | Weight (kg) |
|---|---|---|---|
| 200 | 514 | 1 | 11.5 |
| 300 | 614 | 2 | 13.0 |
| 400 | 714 | 2 | 14.5 |
| 500 | 814 | 3 | 16.0 |
| 600 | 914 | 3 | 17.5 |
| 700 | 1014 | 4 | 19.0 |
| 800 | 1114 | 4 | 20.5 |
| 900 | 1214 | 5 | 22.0 |
| 1000 | 1314 | 5 | 23.5 |
| 1100 | 1414 | 6 | 25.0 |

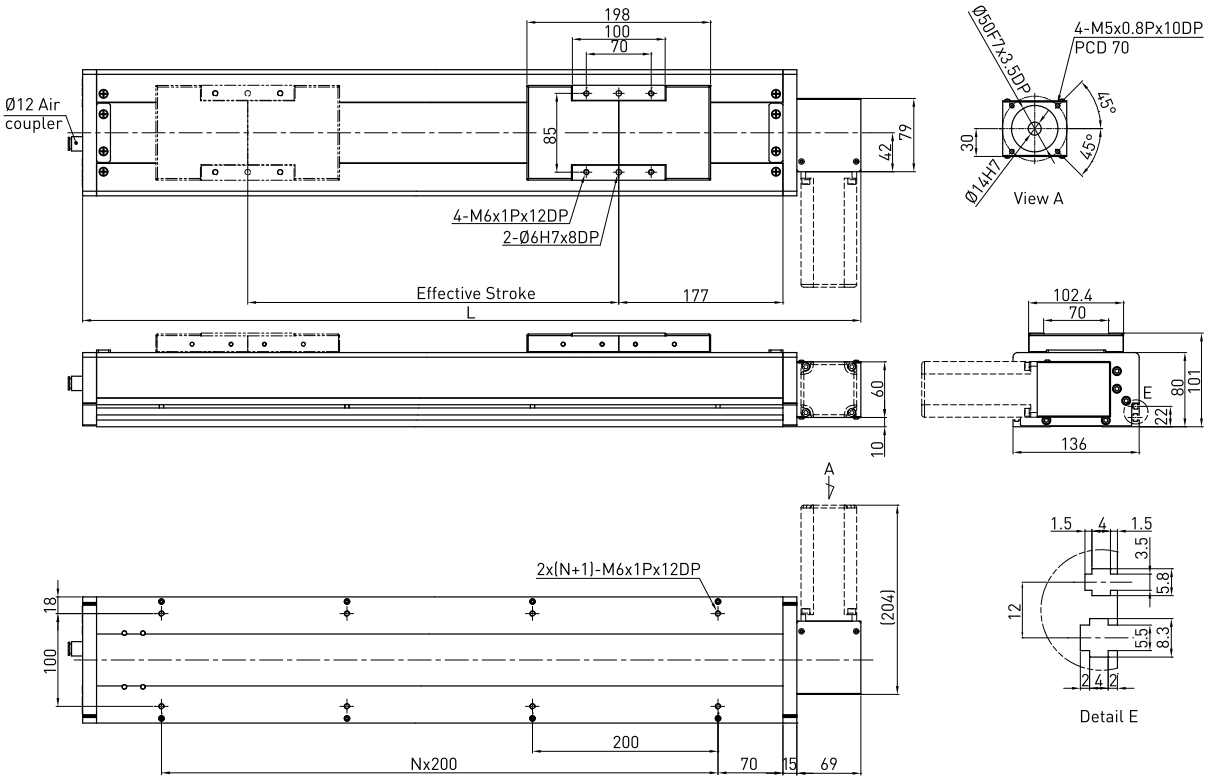
| | | | | | |
|---|---|---|---|---|---|
| AC motor output | | | W | 200 | |
| Drive | | | | Ballscrew C7(normal) | |
| Lead | | | mm | 10 | 20 |
| Rated RPM | | | RPM | 3000 | 3000 |
| Max linear speed* | | | mm/sec | 500 | 1000 |
| Rated thrust | | | N | 280 | 140 |
| Repeatability | | | mm | ±0.02 | |
| Effective stroke | | | mm | 100~1050 | |
| Max load (H) | | | kg | 82 | 40 |
| Rated dynamic load** |  | Fyd | N | 50 | 50 |
| | | Fzd | N | 820 | 400 |
| | | Mxd | N-m | 60 | 66 |
| | | Myd | N-m | 80 | 86 |
| | | Mzd | N-m | 20 | 26 |
| Permitted load condition*** | $\frac{Fy}{Fyd}+\frac{Fz}{Fzd}+\frac{Mx}{Mxd}+\frac{My}{Myd}+\frac{Mz}{Mzd}\le 1$<br>Fy, Fz, Mx, My, Mz are working loads | | | | |



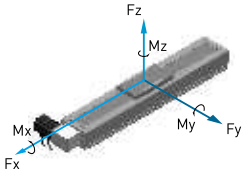
* Vibration might occur when the effective stroke is longer than 700mm.
The maximum speed should be decreased by 15% for every 100mm of increased stroke.
** The load condition is based on 10,000km operation.
*** If used on the vertical axis or in a special condition, please contact HIWIN.

# Model Number for KS140B-FL

| KS140 | B | -120 | C | -3000 | A | FL | S2 | M |
|---|---|---|---|---|---|---|---|---|
| Model | Timing Belt | Pulley Perimeter | Precision Grade | Effective Stroke | Slider Type | Motor Flange | Limit Switch | Motor |
| | | | C: Normal | | A: Standard | FL: Left | S2: OMRON SX674<br>None: Without Sensor | M: Supplied With Motor<br>None: Without Motor |




| Effective stroke (mm) | L | N | Weight (kg) |
|---|---|---|---|
| 200 | 639 | 2 | 10.4 |
| 400 | 839 | 3 | 12.6 |
| 600 | 1039 | 4 | 14.8 |
| 800 | 1239 | 5 | 17.0 |
| 1000 | 1439 | 6 | 19.2 |
| 1200 | 1639 | 7 | 21.4 |
| 1400 | 1839 | 8 | 23.6 |
| 1600 | 2039 | 9 | 25.8 |
| 1800 | 2239 | 10 | 28.0 |
| 2000 | 2439 | 11 | 30.2 |
| 2200 | 2639 | 12 | 32.4 |
| 2400 | 2839 | 13 | 34.6 |
| 2600 | 3039 | 14 | 36.8 |
| 2800 | 3239 | 15 | 39.0 |
| 3000 | 3439 | 16 | 41.2 |

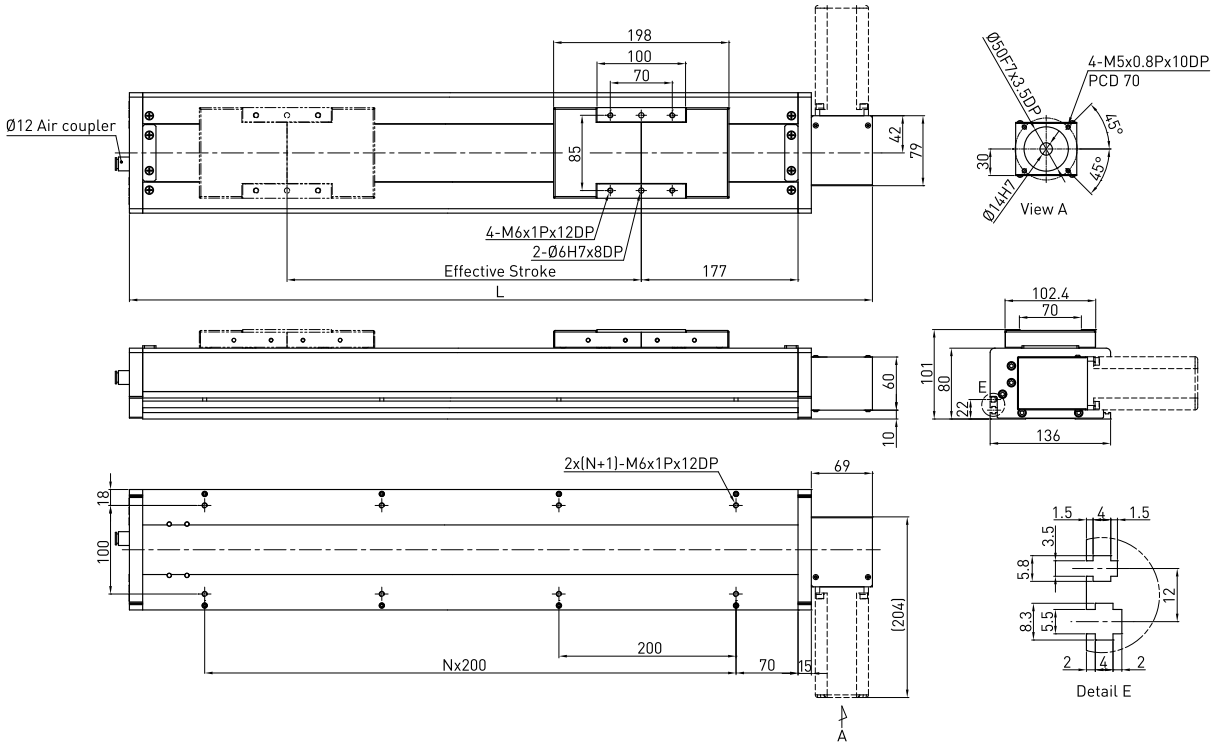
| | | | | |
|---|---|---|---|---|
| AC motor output | | | W | 200 |
| Drive | | | | Timing Belt |
| Pulley Perimeter | | | mm | 120 |
| Pulley RPM | | | RPM | 900 |
| Max linear speed | | | mm/sec | 1800 |
| Rated thrust | | | N | 67 |
| Repeatability | | | mm | ±0.1 |
| Effective stroke | | | mm | 200~3000 |
| Max load (H) | | | kg | 15 |
| Rated dynamic load* |  | Fyd | N | 50 |
| | | Fzd | N | 150 |
| | | Mxd | N-m | 70 |
| | | Myd | N-m | 86 |
| | | Mzd | N-m | 26 |
| Permitted load condition** | $\frac{Fy}{Fyd}+\frac{Fz}{Fzd}+\frac{Mx}{Mxd}+\frac{My}{Myd}+\frac{Mz}{Mzd}\leq 1$<br>Fy, Fz, Mx, My, Mz are working loads | | | |



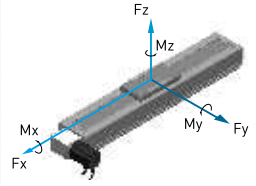
*The load condition is based on 10,000km operation.
**For horizontal application only. If used in special condition, please contact HIWIN.

# Model Number for KS140B-FR

| KS140 | B | -120 | C | -3000 | A | FR | S2 | M |
|---|---|---|---|---|---|---|---|---|
| Model | Timing Belt | Pulley Perimeter | Precision Grade | Effective Stroke | Slider Type | Motor Flange | Limit Switch | Motor |
| | | | C: Normal | | A: Standard | FR: Right | S2: OMRON SX674<br>None: Without Sensor | M: Supplied With Motor<br>None: Without Motor |




| Effective stroke (mm) | L | N | Weight (kg) |
|---|---|---|---|
| 200 | 639 | 2 | 10.4 |
| 400 | 839 | 3 | 12.6 |
| 600 | 1039 | 4 | 14.8 |
| 800 | 1239 | 5 | 17.0 |
| 1000 | 1439 | 6 | 19.2 |
| 1200 | 1639 | 7 | 21.4 |
| 1400 | 1839 | 8 | 23.6 |
| 1600 | 2039 | 9 | 25.8 |
| 1800 | 2239 | 10 | 28.0 |
| 2000 | 2439 | 11 | 30.2 |
| 2200 | 2639 | 12 | 32.4 |
| 2400 | 2839 | 13 | 34.6 |
| 2600 | 3039 | 14 | 36.8 |
| 2800 | 3239 | 15 | 39.0 |
| 3000 | 3439 | 16 | 41.2 |

| | | | | |
|---|---|---|---|---|
| AC motor output | | | W | 200 |
| Drive | | | | Timing Belt |
| Pulley Perimeter | | | mm | 120 |
| Pulley RPM | | | RPM | 900 |
| Max linear speed | | | mm/sec | 1800 |
| Rated thrust | | | N | 67 |
| Repeatability | | | mm | ±0.1 |
| Effective stroke | | | mm | 200~3000 |
| Max load (H) | | | kg | 15 |
| Rated dynamic load* |  | Fyd | N | 50 |
| | | Fzd | N | 150 |
| | | Mxd | N-m | 70 |
| | | Myd | N-m | 86 |
| | | Mzd | N-m | 26 |
| Permitted load condition** | $\frac{Fy}{Fyd}+\frac{Fz}{Fzd}+\frac{Mx}{Mxd}+\frac{My}{Myd}+\frac{Mz}{Mzd}\leq 1$<br>Fy, Fz, Mx, My, Mz are working loads | | | |



*The load condition is based on 10,000km operation.
**For horizontal application only. If used in special condition, please contact HIWIN.