



## MATERIAL FACT SHEET

### 493380 HG-KNS43BK

#### General Data

|                     |                                     |
|---------------------|-------------------------------------|
| Product Hierarchy   | IAK30226                            |
|                     | SERVO and Motion                    |
|                     | HG-KN                               |
| Ext. Material Group | 10 STANDARD ITEM                    |
| ABC Indicator       | B (Limited Availability from Stock) |

e-shop: [https://mitsubishi-electric-eshop.mee.com/mee/FA\\_IJ/EUR/en/p/000000000000493380](https://mitsubishi-electric-eshop.mee.com/mee/FA_IJ/EUR/en/p/000000000000493380)

#### FA-Servo-Motion: Servo Motor

|                            |              |
|----------------------------|--------------|
| Series                     | MELSERVO-JET |
| Type                       | HG-KNS       |
| Power Supply (V)           | 200          |
| Rated Capacity (kW)        | 0,4          |
| Inertia                    | LOW INERTIA  |
| Rated Torque (Nm)          | 1,3          |
| Maximum Torque (Nm)        | 3,8          |
| Rated Speed (rpm)          | 3000         |
| Maximum Speed (rpm)        | 6000         |
| Inertia (kg*cm2)           | 0,397        |
| Brake                      | YES          |
| Shaft Type                 | KEYWAY       |
| Protection Class           | IP65         |
| Current Type               | AC           |
| Encoder Type               | 22-BIT       |
| Encoder Resolution (p/rev) | 4194304      |

#### Product Dimensions & Weight

|             |       |
|-------------|-------|
| Width (mm)  | 60    |
| Height (mm) | 77,1  |
| Depth (mm)  | 165,1 |
| Weight (kg) | 1,8   |

#### Logistic Dimensions & Gross Weight

|                   |       |
|-------------------|-------|
| Length (cm)       | 24,0  |
| Width (cm)        | 11,0  |
| Height (cm)       | 10,0  |
| Gross Weight (kg) | 1,807 |
| Volume (cdm)      | 2,640 |

#### Stock Data

|                              |     |
|------------------------------|-----|
| Planned Delivery Time (Days) | 100 |
|------------------------------|-----|

#### Life Cycle

|             |                |
|-------------|----------------|
| Sales Start | 08.11.2019     |
| Predecessor | No Predecessor |

#### Additional Product Information

|                          |              |
|--------------------------|--------------|
| Difference to Standard 1 | KEYWAY SHAFT |
| Battery included         | NO           |

#### Export Data

|                                          |            |
|------------------------------------------|------------|
| Commodity Code                           | 85015100   |
| Legal Control (Dual Use List)            | Not Listed |
| Country of Origin                        | Japan (JP) |
| Preference Status (Supplier Declaration) | Non EU     |

## Environmental

|                                |                           |
|--------------------------------|---------------------------|
| REACH Limit Exceeded           | YES                       |
| REACH Substance CAS Number     | <a href="#">7439-92-1</a> |
| REACH Substance CAS Number (2) | <a href="#">96-45-7</a>   |
| Dangerous Goods Class          | NO                        |
| Dangerous Goods Identifier     | NO                        |
| WEEE                           | B2B                       |

## Conformity

|      |           |
|------|-----------|
| CE   | COMPLIANT |
| UKCA | COMPLIANT |

## Documentation & Media Data

|                            |                                                                                                                                                                                                                                                                                         |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Manual URL Indicator       | <a href="https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=bltdae25c2bd5f2ff94&amp;q=HG-KNS43BK&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=bltdae25c2bd5f2ff94&amp;q=HG-KNS43BK&amp;doc-lang=en</a> |
| Certificates URL Indicator | <a href="https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt8050dd1408c11cc2&amp;q=HG-KNS43BK&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt8050dd1408c11cc2&amp;q=HG-KNS43BK&amp;doc-lang=en</a> |
| CAD URL Indicator          | <a href="https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt26ecc97a31a841c1&amp;q=HG-KNS43BK&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt26ecc97a31a841c1&amp;q=HG-KNS43BK&amp;doc-lang=en</a> |

## Product Packaging

|                   |     |
|-------------------|-----|
| Cardboard (g)     | 110 |
| Other paper (g)   | 36  |
| Aluminum (g)      | 0   |
| Steel (g)         | 0   |
| Styrofoam (g)     | 0   |
| Other plastic (g) | 13  |
| Wood (g)          | 0   |
| Glass (g)         | 0   |
| Others (g)        | 0   |

## Spare parts

| Material               | Description                            | Quantity | Unit |
|------------------------|----------------------------------------|----------|------|
| <a href="#">201570</a> | HC-PQ/HC-MF13-53 BALL BEARING          | 1        | PC   |
| <a href="#">278666</a> | HG-KR/MR 053(B) - 73(B) ENCODER OBA24R | 1        | PC   |
| <a href="#">191210</a> | HF-KP/MP23-43(B) ENCODER COVER         | 1        | PC   |
| <a href="#">278652</a> | HG-KR/MR-23/43B - 23/43B P-BRACKET     | 1        | PC   |
| <a href="#">278655</a> | HG-KR/MR-23/43 O-BRACKET               | 1        | PC   |
| 191194                 | HF-KP/MP23-43(B) PRE LOAD SPRING       | 1        | PC   |
| <a href="#">278667</a> | HG-KR/MR 053(B) - 73(B) ENCODER LEAD   | 1        | PC   |
| 191182                 | HF-KP/MP23-43(B) O-RING LOAD SIDE      | 1        | PC   |
| 191191                 | HF-KP/MP23-43(B) O-RING ENCODER SIDE   | 1        | PC   |

## Compatible products

| Material               | Description / Price List Text / Classification                                                                                                    |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">154367</a> | MR-J3JCBL03M-A2-L<br>Encoder cable; for HF-KN,-KP,-MP, HG-KR,-MR, 0.3m (lead out encoder), IP20<br>Class 100100508: FA-Servo-Motion: Cable        |
| <a href="#">160227</a> | MR-PWS1CBL2M-A1-H<br>Power cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, high flex, 2m (motor shaft)<br>Class 100100508: FA-Servo-Motion: Cable    |
| <a href="#">160228</a> | MR-PWS1CBL2M-A2-H<br>Power cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, high flexible, 2m (Encoder)<br>Class 100100508: FA-Servo-Motion: Cable    |
| <a href="#">160230</a> | MR-J3ENCBL2M-A2-H<br>Encoder cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, highflexible, 2m (encoder)<br>Class 100100508: FA-Servo-Motion: Cable   |
| <a href="#">160311</a> | MR-BKS1CBL2M-A2-H<br>Brake cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, high flexible, 2m (Encoder)<br>Class 100100508: FA-Servo-Motion: Cable    |
| <a href="#">160312</a> | MR-J3ENCBL2M-A1-H<br>Encoder cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, highflex. 2m (motor shaft)<br>Class 100100508: FA-Servo-Motion: Cable   |
| <a href="#">161547</a> | MR-J3ENCBL5M-A1-H<br>Encoder cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, highflex. 5m (motor shaft)<br>Class 100100508: FA-Servo-Motion: Cable   |
| <a href="#">161548</a> | MR-J3ENCBL10M-A1-H<br>Encoder cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, highflex. 10m (motor shaft)<br>Class 100100508: FA-Servo-Motion: Cable |

| Material               | Description / Price List Text / Classification                                                                                                    |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">161549</a> | MR-J3ENCBL2M-A1-L<br>Encoder cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, 2m (lead out motor shaft)<br>Class 100100508: FA-Servo-Motion: Cable    |
| <a href="#">161550</a> | MR-J3ENCBL5M-A1-L<br>Encoder cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, 5m (lead out motor shaft)<br>Class 100100508: FA-Servo-Motion: Cable    |
| <a href="#">161551</a> | MR-J3ENCBL10M-A1-L<br>Encoder cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, 10m (lead out motor shaft)<br>Class 100100508: FA-Servo-Motion: Cable  |
| <a href="#">161552</a> | MR-J3ENCBL5M-A2-H<br>Encoder cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, highflexible, 5m (encoder)<br>Class 100100508: FA-Servo-Motion: Cable   |
| <a href="#">161553</a> | MR-J3ENCBL10M-A2-H<br>Encoder cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, highflexible, 10m (encoder)<br>Class 100100508: FA-Servo-Motion: Cable |
| <a href="#">161554</a> | MR-J3ENCBL2M-A2-L<br>Encoder cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, 2m (lead out encoder)<br>Class 100100508: FA-Servo-Motion: Cable        |
| <a href="#">161555</a> | MR-J3ENCBL5M-A2-L<br>Encoder cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, 5m (lead out encoder)<br>Class 100100508: FA-Servo-Motion: Cable        |
| <a href="#">161556</a> | MR-J3ENCBL10M-A2-L<br>Encoder cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, 10m (lead out encoder)<br>Class 100100508: FA-Servo-Motion: Cable      |
| <a href="#">161557</a> | MR-J3JCB03M-A1-L<br>Encoder cable; for HF-KN,-KP,-MP, HG-KR,-MR, 0.3m (lead out motor shaft), IP20<br>Class 100100508: FA-Servo-Motion: Cable     |
| <a href="#">161559</a> | MR-EKCBL20M-H<br>Encoder cable; for HF-KE,-KN,-KP,-MP, HG-KR,-MR, high-flex 20m (motor shaft)<br>Class 100100508: FA-Servo-Motion: Cable          |
| <a href="#">161560</a> | MR-EKCBL30M-H<br>Encoder cable; for HF-KE,-KN,-KP,-MP, HG-KR,-MR, high-flex 30m (motor shaft)<br>Class 100100508: FA-Servo-Motion: Cable          |
| <a href="#">161561</a> | MR-EKCBL20M-L<br>Encoder cable; for HF-KE,-KN,-KP,-MP, HG-KR,-MR, 20m (lead out encoder)<br>Class 100100508: FA-Servo-Motion: Cable               |
| <a href="#">161562</a> | MR-EKCBL30M-L<br>Encoder cable; for HF-KE,-KN,-KP,-MP, HG-KR,-MR, 30m (lead out encoder)<br>Class 100100508: FA-Servo-Motion: Cable               |
| <a href="#">161572</a> | MR-ECNM<br>Encoder-connector-set for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR motor types<br>Class 100100509: FA-Servo-Motion: Connector                  |
| <a href="#">161592</a> | MR-PWS1CBL5M-A1-H<br>Power cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, high flex, 5m (motor shaft)<br>Class 100100508: FA-Servo-Motion: Cable    |
| <a href="#">161593</a> | MR-PWS1CBL10M-A1-H<br>Power cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, high flex, 10m (motor shaft)<br>Class 100100508: FA-Servo-Motion: Cable  |
| <a href="#">161594</a> | MR-PWS1CBL2M-A1-L<br>Power cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, 2m (Lead out motor shaft)<br>Class 100100508: FA-Servo-Motion: Cable      |
| <a href="#">161595</a> | MR-PWS1CBL5M-A1-L<br>Power cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, 5m (Lead out motor shaft)<br>Class 100100508: FA-Servo-Motion: Cable      |
| <a href="#">161596</a> | MR-PWS1CBL10M-A1-L<br>Power cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, 10m (Lead out motor shaft)<br>Class 100100508: FA-Servo-Motion: Cable    |
| <a href="#">161597</a> | MR-PWS1CBL5M-A2-H<br>Power cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, high flexible, 5m (Encoder)<br>Class 100100508: FA-Servo-Motion: Cable    |
| <a href="#">161598</a> | MR-PWS1CBL10M-A2-H<br>Power cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, high flexible, 10m (Encoder)<br>Class 100100508: FA-Servo-Motion: Cable  |
| <a href="#">161599</a> | MR-PWS1CBL2M-A2-L<br>Power cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, 2m (Lead out Encoder)<br>Class 100100508: FA-Servo-Motion: Cable          |
| <a href="#">161600</a> | MR-PWS1CBL5M-A2-L<br>Power cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, 5m (Lead out Encoder)<br>Class 100100508: FA-Servo-Motion: Cable          |

| Material               | Description / Price List Text / Classification                                                                                                    |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">161601</a> | MR-PWS1CBL10M-A2-L<br>Power cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, 10m (Lead out Encoder)<br>Class 100100508: FA-Servo-Motion: Cable        |
| <a href="#">161602</a> | MR-PWS2CBL03M-A1-L<br>Power cable; for HF-KE,-KN,-KP,-MP, HG-KR,-MR, 0.3 m (Lead out motor shaft)<br>Class 100100508: FA-Servo-Motion: Cable      |
| <a href="#">161603</a> | MR-PWS2CBL03M-A2-L<br>Power cable; for HF-KE,-KN,-KP,-MP, HG-KR,-MR, 0.3 m (Lead out Encoder)<br>Class 100100508: FA-Servo-Motion: Cable          |
| <a href="#">161604</a> | MR-BKS1CBL2M-A1-H<br>Brake cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, high flexible,2m(motor shaft)<br>Class 100100508: FA-Servo-Motion: Cable  |
| <a href="#">161605</a> | MR-BKS1CBL5M-A1-H<br>Brake cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, high flexible,5m(motor shaft)<br>Class 100100508: FA-Servo-Motion: Cable  |
| <a href="#">161606</a> | MR-BKS1CBL10M-A1-H<br>Brake cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR,high flexible,10m(motor shaft)<br>Class 100100508: FA-Servo-Motion: Cable |
| <a href="#">161607</a> | MR-BKS1CBL2M-A1-L<br>Brake cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, 2m (Lead out motor shaft)<br>Class 100100508: FA-Servo-Motion: Cable      |
| <a href="#">161608</a> | MR-BKS1CBL5M-A1-L<br>Brake cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, 5m (Lead out motor shaft)<br>Class 100100508: FA-Servo-Motion: Cable      |
| <a href="#">161609</a> | MR-BKS1CBL10M-A1-L<br>Brake cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, 10m (Lead out motor shaft)<br>Class 100100508: FA-Servo-Motion: Cable    |
| <a href="#">161610</a> | MR-BKS1CBL5M-A2-H<br>Brake cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, high flexible, 5m (Encoder)<br>Class 100100508: FA-Servo-Motion: Cable    |
| <a href="#">161611</a> | MR-BKS1CBL10M-A2-H<br>Brake cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, high flexible, 10m (Encoder)<br>Class 100100508: FA-Servo-Motion: Cable  |
| <a href="#">161612</a> | MR-BKS1CBL2M-A2-L<br>Brake cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, 2m (Lead out Encoder)<br>Class 100100508: FA-Servo-Motion: Cable          |
| <a href="#">161613</a> | MR-BKS1CBL5M-A2-L<br>Brake cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, 5m (Lead out Encoder)<br>Class 100100508: FA-Servo-Motion: Cable          |
| <a href="#">161614</a> | MR-BKS1CBL10M-A2-L<br>Brake cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, 10m (Lead out Encoder)<br>Class 100100508: FA-Servo-Motion: Cable        |
| <a href="#">161615</a> | MR-BKS2CBL03M-A1-L<br>Brake cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, 0,3 m (Lead out motor shaft)<br>Class 100100508: FA-Servo-Motion: Cable  |
| <a href="#">161616</a> | MR-BKS2CBL03M-A2-L<br>Brake cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, 0,3 m (Lead out Encoder)<br>Class 100100508: FA-Servo-Motion: Cable      |
| <a href="#">209504</a> | MR-J3ENCBL3M-A2-L<br>Encoder cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, 3m (lead out encoder)<br>Class 100100508: FA-Servo-Motion: Cable        |
| <a href="#">229788</a> | MR-EKCBL50M-H<br>Encoder cable; for HF-KP(B)/HF-MP(B), high-flex 50m (lead out motor shaft), IP20<br>Class 100100508: FA-Servo-Motion: Cable      |
| <a href="#">246915</a> | MR-EKCBL5M-H<br>Encoder cable; high-flex, 5m, IP20<br>Class 100100508: FA-Servo-Motion: Cable                                                     |
| <a href="#">269075</a> | MR-EKCBL40M-H<br><br>Class 100100508: FA-Servo-Motion: Cable                                                                                      |