



MATERIAL FACT SHEET

248661 HG-MR053

General Data

Product Hierarchy	IAK30221
	SERVO and Motion
	HG-MR
Ext. Material Group	10 STANDARD ITEM
ABC Indicator	B (Limited Availability from Stock)

e-shop: https://mitsubishi-electric-eshop.mee.com/mee/FA_IA/EUR/en/p/000000000000248661

FA-Servo-Motion: Servo Motor

Series	MELSERVO-J4
Type	HG-MR
Power Supply (V)	200
Rated Capacity (kW)	0,05
Inertia	ULTRA-LOW INERTIA
Rated Torque (Nm)	0,16
Maximum Torque (Nm)	0,48
Rated Speed (rpm)	3000
Maximum Speed (rpm)	6000
Inertia (kg*cm2)	0,0162
Brake	NO
Shaft Type	STRAIGHT SHAFT
Protection Class	IP65
Current Type	AC
Encoder Type	22-BIT
Encoder Resolution (p/rev)	4194304

Product Dimensions & Weight

Width (mm)	40
Height (mm)	41,7
Depth (mm)	66,4
Weight (kg)	0,34

Logistic Dimensions & Gross Weight

Length (cm)	20,0
Width (cm)	10,5
Height (cm)	9,0
Gross Weight (kg)	0,385
Volume (cdm)	1,890

Stock Data

Planned Delivery Time (Days)	72
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Life Cycle

Sales Start	11.04.2012
Predecessor	161515 / HF-MP053

Additional Product Information

Binding Tariff Information	DEBTI-10612/21-1
BTI validity date	26.09.2024
Battery included	NO

Export Data

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

Environmental

REACH Limit Exceeded	NO
Dangerous Goods Class	NO
Dangerous Goods Identifier	NO
RoHS Compliance	COMPLIANT
WEEE	B2B

Conformity

CE	COMPLIANT
UL/cUL	COMPLIANT
EAC	COMPLIANT
UKCA	COMPLIANT

Documentation & Media Data

Manual URL Indicator	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt8050dd1408c11cc2&q=HG-MR053&doc-lang=en
Certificates URL Indicator	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt8050dd1408c11cc2&q=HG-MR053&doc-lang=en
CAD URL Indicator	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt26ecc97a31a841c1&q=HG-MR053&doc-lang=en

Product Packaging

Cardboard (g)	90
Other paper (g)	0,3
Aluminum (g)	0
Steel (g)	0
Styrofoam (g)	0
Other plastic (g)	18,6
Wood (g)	0
Glass (g)	0
Others (g)	1

Spare parts

Material	Description	Quantity	Unit
278651	HG-KR/MR-53/53B - 13/13B P-BRACKET	1	PC
278654	HG-KR/MR-053/13 O-BRACKET	1	PC
278666	HG-KR/MR 053(B) - 73(B) ENCODER OBA24R	1	PC
278667	HG-KR/MR 053(B) - 73(B) ENCODER LEAD	1	PC
191209	HF-KP/MP053-13(B) ENCODER COVER	1	PC

Compatible products

Material	Description / Price List Text / Classification
154367	MR-J3JCB L03M-A2-L Encoder cable; for HF-KN,-KP,-MP, HG-KR,-MR, 0.3m (lead out encoder), IP20 Class 100100508: FA-Servo-Motion: Cable
160226	MR-J3ENCBL2M-H Encoder cable; for HC-RP, HF-SN/SP/JP, HG-SN/SR, HK-KT/RT/ST; high flex.,2m, IP67 Class 100100508: FA-Servo-Motion: Cable
160227	MR-PWS1CBL2M-A1-H Power cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, high flex, 2m (motor shaft) Class 100100508: FA-Servo-Motion: Cable
160228	MR-PWS1CBL2M-A2-H Power cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, high flexible, 2m (Encoder) Class 100100508: FA-Servo-Motion: Cable
160230	MR-J3ENCBL2M-A2-H Encoder cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, highflexible, 2m (encoder) Class 100100508: FA-Servo-Motion: Cable
160312	MR-J3ENCBL2M-A1-H Encoder cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, highflex. 2m (motor shaft) Class 100100508: FA-Servo-Motion: Cable
161547	MR-J3ENCBL5M-A1-H Encoder cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, highflex. 5m (motor shaft) Class 100100508: FA-Servo-Motion: Cable
161548	MR-J3ENCBL10M-A1-H Encoder cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, highflex. 10m (motor shaft) Class 100100508: FA-Servo-Motion: Cable
161549	MR-J3ENCBL2M-A1-L Encoder cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, 2m (lead out motor shaft) Class 100100508: FA-Servo-Motion: Cable

Material	Description / Price List Text / Classification
161550	MR-J3ENCBL5M-A1-L Encoder cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, 5m (lead out motor shaft) Class 100100508: FA-Servo-Motion: Cable
161551	MR-J3ENCBL10M-A1-L Encoder cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, 10m (lead out motor shaft) Class 100100508: FA-Servo-Motion: Cable
161552	MR-J3ENCBL5M-A2-H Encoder cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, highflexible, 5m (encoder) Class 100100508: FA-Servo-Motion: Cable
161553	MR-J3ENCBL10M-A2-H Encoder cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, highflexible, 10m (encoder) Class 100100508: FA-Servo-Motion: Cable
161554	MR-J3ENCBL2M-A2-L Encoder cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, 2m (lead out encoder) Class 100100508: FA-Servo-Motion: Cable
161555	MR-J3ENCBL5M-A2-L Encoder cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, 5m (lead out encoder) Class 100100508: FA-Servo-Motion: Cable
161556	MR-J3ENCBL10M-A2-L Encoder cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, 10m (lead out encoder) Class 100100508: FA-Servo-Motion: Cable
161557	MR-J3JCBLO3M-A1-L Encoder cable; for HF-KN,-KP,-MP, HG-KR,-MR, 0.3m (lead out motor shaft), IP20 Class 100100508: FA-Servo-Motion: Cable
161559	MR-EKCBL20M-H Encoder cable; for HF-KE,-KN,-KP,-MP, HG-KR,-MR, high-flex 20m (motor shaft) Class 100100508: FA-Servo-Motion: Cable
161560	MR-EKCBL30M-H Encoder cable; for HF-KE,-KN,-KP,-MP, HG-KR,-MR, high-flex 30m (motor shaft) Class 100100508: FA-Servo-Motion: Cable
161561	MR-EKCBL20M-L Encoder cable; for HF-KE,-KN,-KP,-MP, HG-KR,-MR, 20m (lead out encoder) Class 100100508: FA-Servo-Motion: Cable
161562	MR-EKCBL30M-L Encoder cable; for HF-KE,-KN,-KP,-MP, HG-KR,-MR, 30m (lead out encoder) Class 100100508: FA-Servo-Motion: Cable
161563	MR-J3ENSCBL5M-H Encoder cable; for HC-RP, HF-SN/SP/JP, HG-SN/SR, HK-KT/RT/ST; high flex.,5m, IP67 Class 100100508: FA-Servo-Motion: Cable
161564	MR-J3ENSCBL10M-H Encoder cable; for HC-RP, HF-SN/SP/JP, HG-SN/SR, HK-KT/RT/ST; high flex.,10m,IP67 Class 100100508: FA-Servo-Motion: Cable
161565	MR-J3ENSCBL20M-H Encoder cable; for HC-RP, HF-SN,-SP,-JP, HG-SN,-SR, highflexible, 20m, IP67 Class 100100508: FA-Servo-Motion: Cable
161566	MR-J3ENSCBL30M-H Encoder cable; for HC-RP, HF-SN,-SP,-JP, HG-SN,-SR, highflexible, 30m, IP67 Class 100100508: FA-Servo-Motion: Cable
161567	MR-J3ENSCBL2M-L Encoder cable; for HC-RP, HF-SN/SP/JP, HG-SN/SR, HK-KT/RT/ST; 2m, IP67 Class 100100508: FA-Servo-Motion: Cable
161568	MR-J3ENSCBL5M-L Encoder cable; for HC-RP, HF-SN/SP/JP, HG-SN/SR, HK-KT/RT/ST; 5m, IP67 Class 100100508: FA-Servo-Motion: Cable
161569	MR-J3ENSCBL10M-L Encoder cable; for HC-RP, HF-SN/SP/JP, HG-SN/SR, HK-KT/RT/ST; 10m, IP67 Class 100100508: FA-Servo-Motion: Cable
161570	MR-J3ENSCBL20M-L Encoder cable; for HC-RP, HF-SN,-SP,-JP, HG-SN,-SR, 20m, IP67 Class 100100508: FA-Servo-Motion: Cable
161571	MR-J3ENSCBL30M-L Encoder cable; for HC-RP, HF-SN,-SP,-JP, HG-SN,-SR, 30m, IP67 Class 100100508: FA-Servo-Motion: Cable
161572	MR-ECNM Encoder-connector-set for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR motor types Class 100100509: FA-Servo-Motion: Connector
161576	MR-J3SCNS Encoder-Connector-Set for HF-SE/SN/SP/JP, HG-JR/SN/SR, HK-ST/RT motor,(Straight) Class 100100509: FA-Servo-Motion: Connector

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161592	MR-PWS1CBL5M-A1-H Power cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, high flex, 5m (motor shaft) Class 100100508: FA-Servo-Motion: Cable
161593	MR-PWS1CBL10M-A1-H Power cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, high flex, 10m (motor shaft) Class 100100508: FA-Servo-Motion: Cable
161594	MR-PWS1CBL2M-A1-L Power cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, 2m (Lead out motor shaft) Class 100100508: FA-Servo-Motion: Cable
161595	MR-PWS1CBL5M-A1-L Power cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, 5m (Lead out motor shaft) Class 100100508: FA-Servo-Motion: Cable
161596	MR-PWS1CBL10M-A1-L Power cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, 10m (Lead out motor shaft) Class 100100508: FA-Servo-Motion: Cable
161597	MR-PWS1CBL5M-A2-H Power cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, high flexible, 5m (Encoder) Class 100100508: FA-Servo-Motion: Cable
161598	MR-PWS1CBL10M-A2-H Power cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, high flexible, 10m (Encoder) Class 100100508: FA-Servo-Motion: Cable
161599	MR-PWS1CBL2M-A2-L Power cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, 2m (Lead out Encoder) Class 100100508: FA-Servo-Motion: Cable
161600	MR-PWS1CBL5M-A2-L Power cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, 5m (Lead out Encoder) Class 100100508: FA-Servo-Motion: Cable
161601	MR-PWS1CBL10M-A2-L Power cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, 10m (Lead out Encoder) Class 100100508: FA-Servo-Motion: Cable
161602	MR-PWS2CBL03M-A1-L Power cable; for HF-KE,-KN,-KP,-MP, HG-KR,-MR, 0.3 m (Lead out motor shaft) Class 100100508: FA-Servo-Motion: Cable
161603	MR-PWS2CBL03M-A2-L Power cable; for HF-KE,-KN,-KP,-MP, HG-KR,-MR, 0.3 m (Lead out Encoder) Class 100100508: FA-Servo-Motion: Cable
209504	MR-J3ENCBL3M-A2-L Encoder cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, 3m (lead out encoder) Class 100100508: FA-Servo-Motion: Cable
220002	PWS007N-02.0-A2 Power cable; for HF-KN,-KP,-MP, HG-KN,-KR,-MR,shielded, power chain, 2m (Enc.) Class 100100508: FA-Servo-Motion: Cable
220005	PWS007N-05.0-A2 Power cable; for HF-KN,-KP,-MP, HG-KN,-KR,-MR,shielded, power chain, 5m (Enc.) Class 100100508: FA-Servo-Motion: Cable
220007	PWS007N-10.0-A2 Power cable; for HF-KN,-KP,-MP, HG-KN,-KR,-MR,shielded, power chain, 10m (Enc.) Class 100100508: FA-Servo-Motion: Cable
220009	PWS007N-02.0-A1 Power cable; for HF-KN,-KP,-MP, HG-KN,-KR,-MR,shielded, power chain, 2m (shaft) Class 100100508: FA-Servo-Motion: Cable
220010	PWS007N-05.0-A1 Power cable; for HF-KN,-KP,-MP, HG-KN,-KR,-MR,shielded, power chain, 5m (shaft) Class 100100508: FA-Servo-Motion: Cable
220012	PWS007N-10.0-A1 Power cable; for HF-KN,-KP,-MP, HG-KN,-KR,-MR,shielded, power chain,10m (shaft) Class 100100508: FA-Servo-Motion: Cable
227425	MR-J3SCNSA Encoder-Connector-Set for HF-SE/SN/SP/JP, HG-JR/SN/SR, HK-ST/RT motor, (Angle) Class 100100509: FA-Servo-Motion: Connector
229788	MR-EKCBL50M-H Encoder cable; for HF-KP(B)/HF-MP(B), high-flex 50m (lead out motor shaft), IP20 Class 100100508: FA-Servo-Motion: Cable
237275	MR-J3ENSCBLDDS5M-H (IT) Class 100100508: FA-Servo-Motion: Cable
239651	MR-J3JSCBL03M-A1-L Encoder cable; for HF-KE,-KN,-KP,-MP, HG-KR,-MR, 0.3m (motor shaft), IP65 Class 100100508: FA-Servo-Motion: Cable

Material	Description / Price List Text / Classification
239652	MR-J3JSCBL03M-A2-L Encoder cable; for HF-KE,-KN,-KP,-MP, HG-KR,-MR, 0.3m (lead out encoder), IP65 Class 100100508: FA-Servo-Motion: Cable
244812	MR-J3JSCBL50M-H Encoder cable; for HC-RP, HF-SN,-SP,-JP, HG-SN,-SR, highflexible, 50m, IP67 Class 100100508: FA-Servo-Motion: Cable
246915	MR-EKCBL5M-H Encoder cable; high-flex, 5m, IP20 Class 100100508: FA-Servo-Motion: Cable
248686	MR-ENCNS2 Encoder Connector Set for HG-SN/SR, HK-ST/RT motor, IP67 (Straight Type) Class 100100509: FA-Servo-Motion: Connector
248687	MR-ENCNS2A Encoder Connector Set for HG-SN/SR, HK-ST/RT motor, IP67 (Angle Type) Class 100100509: FA-Servo-Motion: Connector
269075	MR-EKCBL40M-H Class 100100508: FA-Servo-Motion: Cable
269076	MR-J3JSCBL40M-H Encoder cable; for HC-RP, HF-SN,-SP,-JP, HG-SN,-SR, highflexible, 40m, IP67 Class 100100508: FA-Servo-Motion: Cable
493673	MR-PWS1CBL20M-A1-H Power cable; for HF-KE,-KN,-KP,-MP, HG-KN,-KR,-MR, high flex, 20m (motor shaft) Class 100100508: FA-Servo-Motion: Cable