



Controls & Drives

Mitsubishi Servo Solutions from BPX

Edition 4

New list prices from:

1st April, 2009

**MR-J3 Amplifiers,
Motors, Accessories &
Selection Guide**



**MR-J2S Amplifiers,
Motors, Accessories &
Selection Guide**



PLC



Software



Gearboxes



**MCBs &
Contactors**

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Controls & Drives distributing technology

Introducing BPX

BPX is a specialist distributor of industrial electrical control and automation products. Our head office is in Leicester and there are six BPX branches throughout the UK.

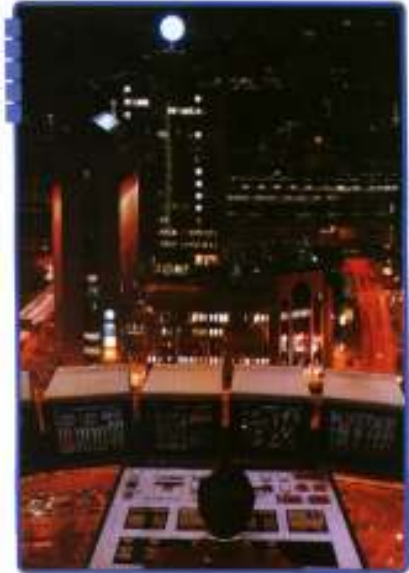
BPX Electro Mechanical Co. is the original member of the BPX Group which also includes the companies Controls and Drives, Ranger Computer Systems and Leicester Switch & Control. These businesses operate in the complementary areas of automation solutions, system integration and computer distribution.

3 reasons to choose BPX

1 Best Products
BPX carries an unrivalled list of authorised distributorships from the market leaders in control and automation.

2 Best Services
BPX customers consistently report service levels to be the best in the business.

3 Best Value
BPX is confident it offers the best value by price and service.



products



The BPX product range offers solutions for all factory automation and industrial control applications.

With distributorships from the market leaders in the controls business including Mitsubishi, Pilz, Telemecanique, Omron, Merlin Gerin, Weidmuller and 35 other major manufacturers BPX is uniquely equipped.

BPX are one of only three companies appointed by Mitsubishi as key partners and our branch locations are authorised Mitsubishi Centres of Technical Excellence. BPX enjoy a unique position in the Mitsubishi distribution structure and have privileged access to technical support, product information and to the Mitsubishi sales team.

Mitsubishi's F and FX Series of PLCs remain the world's best selling programmable controllers and the company's unparalleled experience in the field of industrial automation ensure Mitsubishi are renowned for innovation, quality and value.

The complete Mitsubishi industrial automation product range is supported by BPX. We stock, supply and offer technical advice on Mitsubishi PLCs, Operator Interfaces, Inverters, Servos, Software and Circuit Protection.



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Controls & Drives

Edition 4

What's new in this edition?

Mitsubishi have launched the J3 range of Servos.

A new range of 200V & 400V Servo amplifiers & motors:

- Smaller drive footprint
- Automatic resonance suppression filter
- Lower inertia motors
- Real-time auto-tuning
- 18 bit encoder = 262,144 counts per revolution
- IP65 (200V), IP67 (400V) motors

Please see further on in this brochure for more details of this exciting new range of Servos.

The "Solutions" brochures range:

- Mitsubishi Drives Solutions from BPX
- Mitsubishi HMI Solutions from BPX
- Mitsubishi Servo Solutions from BPX
- Mitsubishi Software Solutions from BPX
- Electric Motor Solutions from BPX
- Cable Management Solutions from BPX

If you would like any of the above range of brochures, personalised with your company name & showing your discounted prices, please contact your local branch or e-mail marketing@bpx.co.uk

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MR-J3 Servo Amplifiers

- *Smaller drive footprint*
- *No space required between drives*
- *Higher processing power*
- *Real-Time Auto-Tuning (RTAT)*
- *Auto resonance suppression filter*
- *18 bit encoder = 262,144 counts per revolution*
- *USB PC interface*
- *Automatic motor recognition*
- *Satisfies global industrial standards*

Auto Resonance Suppression Filter – The optimum “Machine Resonance Suppression Filter” is automatically set to suppress resonance without even measuring the machine system’s (drive shaft) frequency characteristics. The adaptive frequency range has been increased compared to the existing models, so resonance at the drive shaft can also be suppressed.

No Space Required Between Drives – Units can be panel mounted adjacent to one another, thereby saving valuable space in enclosures.

SSCNET III – SSCNET III (Servo System Controller Network) is Mitsubishi’s dedicated motion control network. All MR-J3-B amplifiers can be used on this network, now on fibre optics for noise immunity & higher communication speeds.



Controls & Drives

MR-J3-A

product information



MR-J3-A Servo Amplifiers

- 7 digital inputs
- 4 digital outputs
- The brake can be controlled directly from the amplifier
- Can be used in Speed, Position or Torque Control modes

MR-J3-A (standard type)

The MR-J3-A series is ideal for servo applications using conventional control systems. The servo amplifiers have 2 analogue reference inputs & digital inputs for pulse train control signals. Using the digital pulse train method eliminates the problems inherent in analogue control, such as offset shifts caused by temperature fluctuations & drifting when the system is at rest.

The MR-J3-A series can be used in torque, speed or position control modes.

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MR-J3-A - Standard Type Servo Amplifiers (200V Range)

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
160210	MR-J3-10A	100W Servo amplifier (digital or analogue control) 200V - 1 or 3 phase	£485.00	Call	Call
161485	MR-J3-20A	200W Servo amplifier (digital or analogue control) 200V - 1 or 3 phase	£523.00	Call	Call
161486	MR-J3-40A	400W Servo amplifier (digital or analogue control) 200V - 1 or 3 phase	£536.00	Call	Call
161487	MR-J3-60A	600W Servo amplifier (digital or analogue control) 200V - 1 or 3 phase	£561.00	Call	Call
161488	MR-J3-70A	750W Servo amplifier (digital or analogue control) 200V - 1 or 3 phase	£587.00	Call	Call

MR-J3-A4 - Standard Type Servo Amplifiers (400V Range)

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
205081	MR-J3-60A4	600W Servo amplifier (digital or analogue control) 400V 3-phase	£561.00	Call	Call
205082	MR-J3-100A4	1kW Servo amplifier (digital or analogue control) 400V 3-phase	£857.00	Call	Call
205083	MR-J3-200A4	2kW Servo amplifier (digital or analogue control) 400V 3-phase	£951.00	Call	Call
205084	MR-J3-350A4	3.5kW Servo amplifier (digital or analogue control) 400V 3-phase	£1,019.00	Call	Call
205085	MR-J3-500A4	5kW Servo amplifier (digital or analogue control) 400V 3-phase	£1,373.00	Call	Call
205086	MR-J3-700A4	7kW Servo amplifier (digital or analogue control) 400V 3-phase	£1,649.00	Call	Call

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Controls & Drives

MR-J3-B

product information



MR-J3-B Servo Amplifiers

- Plug-&-play SSCNET III network
- Brake can be controlled directly by the amplifier
- 4 digital inputs for Limits, Dog & Stop
- Automatic parameterisation of the amplifier by the motion controller on power up

MR-J3-B (SSCNET III bus type)

The MR-J3-B series supports connection to Mitsubishi motion control & positioning control systems. The drive systems are connected to these controllers via SSCNET III, a high-speed motion control network with a cycle period of just 0.8 ms. Setting up this plug-&-play network couldn't be easier; you just have to select the axis address & connect the preconfigured bus cable, which also makes wiring errors impossible.

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MR-J3-B - SSCNET Bus Servo Amplifiers (200V Range)

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
161497	MR-J3-10B	100W Servo amplifier (SSCNET III bus control) 200V - 1 or 3 phase	£485.00	Call	Call
161498	MR-J3-20B	200W Servo amplifier (SSCNET III bus control) 200V - 1 or 3 phase	£523.00	Call	Call
161499	MR-J3-40B	400W Servo amplifier (SSCNET III bus control) 200V - 1 or 3 phase	£536.00	Call	Call
161500	MR-J3-60B	600W Servo amplifier (SSCNET III bus control) 200V - 1 or 3 phase	£561.00	Call	Call
161501	MR-J3-70B	750W Servo amplifier (SSCNET III bus control) 200V - 1 or 3 phase	£587.00	Call	Call

MR-J3-B4 - SSCNET Bus Servo Amplifiers (400V Range)

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
192036	MR-J3-60B4	600W Servo amplifier (SSCNET III bus control) 400V 3-phase	£561.00	Call	Call
192037	MR-J3-100B4	1kW Servo amplifier (SSCNET III bus control) 400V 3-phase	£857.00	Call	Call
192038	MR-J3-200B4	2kW Servo amplifier (SSCNET III bus control) 400V 3-phase	£951.00	Call	Call
192039	MR-J3-350B4	3.5kW Servo amplifier (SSCNET III bus control) 400V 3-phase	£1,019.00	Call	Call
192040	MR-J3-500B4	5kW Servo amplifier (SSCNET III bus control) 400V 3-phase	£1,373.00	Call	Call
192041	MR-J3-700B4	7kW Servo amplifier (SSCNET III bus control) 400V 3-phase	£1,649.00	Call	Call

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HF-KP 200V Servo Motors

Application examples:

- *Conveyors*
- *Food preparation machinery*
- *Printers*
- *Small loaders & unloaders*
- *Small robots & component assembly devices*
- *Small X-Y tables*
- *Small press feeders*

HF-KP 200V low inertia servo motors

Larger motor inertia moment makes this unit well suited for machines with fluctuating load inertia moment or machines with low rigidity, such as conveyors.

This document contains list prices, for discounts please call your local branch

HF-KP, low inertia, small capacity motors, 3,000rpm, IP65 (200V series motors)

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
161507	HF-KP053	Low -inertia 50W Servo motor (0.16Nm continuous, 0.48Nm peak)	£276.00	Call	Call
160211	HF-KP13	Low -inertia 100W Servo motor (0.32Nm continuous, 0.95Nm peak)	£291.00	Call	Call
161508	HF-KP23	Low -inertia 200W Servo motor (0.64Nm continuous, 1.9Nm peak)	£361.00	Call	Call
161509	HF-KP43	Low -inertia 400W Servo motor (1.3Nm continuous, 3.8Nm peak)	£427.00	Call	Call
161510	HF-KP73	Low -inertia 750W Servo motor (2.4Nm continuous, 7.2Nm peak)	£512.00	Call	Call

HF-KP, low inertia, small capacity motors, 3,000rpm with brake, IP65 (200V series motors)

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
160213	HF-KP053B	Low -inertia 50W Servo motor with brake (0.16Nm continuous, 0.48Nm peak)	£389.00	Call	Call
161511	HF-KP13B	Low -inertia 100W Servo motor with brake (0.32Nm continuous, 0.95Nm peak)	£401.00	Call	Call
161512	HF-KP23B	Low -inertia 200W Servo motor with brake (0.64Nm continuous, 1.9Nm peak)	£468.00	Call	Call
161513	HF-KP43B	Low -inertia 400W Servo motor with brake (1.3Nm continuous, 3.8Nm peak)	£570.00	Call	Call
161514	HF-KP73B	Low -inertia 750W Servo motor with brake (2.4Nm continuous, 7.2Nm peak)	£682.00	Call	Call

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Controls & Drives

HF-SP

product information



HF-SP 400V Servo Motors

Application examples:

- *Conveyor machinery*
- *Specialised machinery*
- *Robots*
- *Loaders & unloaders*
- *Winders & tension devices*
- *Turrets*
- *X-Y tables*
- *Test devices*

HF-SP 400V medium inertia servo motors

Stable control is performed from low to high speeds, enabling this unit to handle a wide range of applications (e.g. direct connection to ball screw components).

This document contains list prices, for discounts please call your local branch

HF-SP, medium inertia, medium capacity motors, 2,000rpm, IP67 (400V series motors)

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
192042	HF-SP524	Medium-inertia 500W Servo motor (2.39Nm continuous, 7.16Nm peak)	£503.00	Call	Call
192043	HF-SP1024	Medium-inertia 1kW Servo motor (4.78Nm continuous, 14.4Nm peak)	£610.00	Call	Call
192054	HF-SP1524	Medium-inertia 1.5kW Servo motor (7.16Nm continuous, 21.6Nm peak)	£754.00	Call	Call
192055	HF-SP2024	Medium-inertia 2kW Servo motor (9.55Nm continuous, 28.5Nm peak)	£860.00	Call	Call
192056	HF-SP3524	Medium-inertia 3.5kW Servo motor (16.7Nm continuous, 50.1Nm peak)	£1,088.00	Call	Call
192057	HF-SP5024	Medium-inertia 5kW Servo motor (23.9Nm continuous, 71.6Nm peak)	£1,477.00	Call	Call
192058	HF-SP7024	Medium-inertia 7kW Servo motor (33.4Nm continuous, 100Nm peak)	£1,886.00	Call	Call

HF-SP, medium inertia, medium capacity motors with brake, 2,000rpm, IP67 (400V series motors)

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
200975	HF-SP524B	Medium-inertia 500W Servo motor with brake (2.39Nm cont, 7.16Nm peak)	£754.00	Call	Call
200976	HF-SP1024B	Medium-inertia 1kW Servo motor with brake (4.78Nm cont, 14.4Nm peak)	£860.00	Call	Call
200977	HF-SP1524B	Medium-inertia 1.5kW Servo motor with brake (7.16Nm cont, 21.6Nm peak)	£1,004.00	Call	Call
200978	HF-SP2024B	Medium-inertia 2kW Servo motor with brake (9.55Nm cont, 28.5Nm peak)	£1,148.00	Call	Call
200979	HF-SP3524B	Medium-inertia 3.5kW Servo motor with brake (16.7Nm cont, 50.1Nm peak)	£1,350.00	Call	Call
200980	HF-SP5024B	Medium-inertia 5kW Servo motor with brake (23.9Nm cont, 71.6Nm peak)	£1,930.00	Call	Call
200981	HF-SP7024B	Medium-inertia 7kW Servo motor with brake (33.4Nm cont, 100Nm peak)	£2,153.00	Call	Call

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HF-KP (3000rpm series motors) Servo Motor cables

SAP No.	Catalogue No.	Description	Price	Discount	Price
161554	MR-J3ENCBL2M-A2-L	2m encoder cable to suit HF-KP motor, IP65	£26.00	Call	Call
161555	MR-J3ENCBL5M-A2-L	5m encoder cable to suit HF-KP motor, IP65	£29.00	Call	Call
161556	MR-J3ENCBL10M-A2-L	10m encoder cable to suit HF-KP motor, IP65	£45.00	Call	Call
160230	MR-J3ENCBL2M-A2-H	2m encoder cable to suit HF-KP motor, IP65 (high bending life)	£52.00	Call	Call
161552	MR-J3ENCBL5M-A2-H	5m encoder cable to suit HF-KP motor, IP65 (high bending life)	£69.00	Call	Call
161553	MR-J3ENCBL10M-A2-H	10m encoder cable to suit HF-KP motor, IP65 (high bending life)	£122.00	Call	Call
161599	MR-PWS1CBL2M-A2-L	2m power cable to suit HF-KP motor, IP65	£22.00	Call	Call
161600	MR-PWS1CBL5M-A2-L	5m power cable to suit HF-KP motor, IP65	£29.00	Call	Call
161601	MR-PWS1CBL10M-A2-L	10m power cable to suit HF-KP motor, IP65	£43.00	Call	Call
160228	MR-PWS1CBL2M-A2-H	2m power cable to suit HF-KP motor, IP65 (high bending life)	£45.00	Call	Call
161597	MR-PWS1CBL5M-A2-H	5m power cable to suit HF-KP motor, IP65 (high bending life)	£68.00	Call	Call
161598	MR-PWS1CBL10M-A2-H	10m power cable to suit HF-KP motor, IP65 (high bending life)	£108.00	Call	Call
161612	MR-BKS1CBL2M-A2-L	2m brake cable to suit HF-KP motor, IP65	£19.00	Call	Call
161613	MR-BKS1CBL5M-A2-L	5m brake cable to suit HF-KP motor, IP65	£29.00	Call	Call
161614	MR-BKS1CBL10M-A2-L	10m brake cable to suit HF-KP motor, IP65	£36.00	Call	Call
160311	MR-BKS1CBL2M-A2-H	2m brake cable to suit HF-KP motor, IP65 (high bending life)	£40.00	Call	Call
161610	MR-BKS1CBL5M-A2-H	5m brake cable to suit HF-KP, IP65 (high bending life)	£57.00	Call	Call
161611	MR-BKS1CBL10M-A2-H	10m brake cable to suit HF-KP, IP65 (high bending life)	£96.00	Call	Call

HF-SP (2000rpm series motors) Servo Motor cables/connectors

SAP No.	Catalogue No.	Description	Price	Discount	Price
161567	MR-J3ENSCBL2M-L	2m encoder cable to suit HF-SP motor, IP67	£26.00	Call	Call
161568	MR-J3ENSCBL5M-L	5m encoder cable to suit HF-SP motor, IP67	£29.00	Call	Call
161569	MR-J3ENSCBL10M-L	10m encoder cable to suit HF-SP motor, IP67	£45.00	Call	Call
161563	MR-J3ENSCBL5M-H	5m encoder cable to suit HF-KP motor, IP67 (high bending life)	£69.00	Call	Call
161564	MR-J3ENSCBL10M-H	10m encoder cable to suit HF-SP motor, IP67 (high bending life)	£122.00	Call	Call
161576	MR-J3SCNS	Encoder connector set for HF-SP series motors IP67	£12.00	Call	Call
161573	MR-PWCNS4	Power supply connector for HF-SP52, 102, 152 motor, IP67	£46.00	Call	Call
161574	MR-PWCNS5	Power supply connector for HF-SP202, 352, 502 motor, IP67	£46.00	Call	Call
TBA	MR-PWCNS6	Power supply connector for HF-SP702 motor, IP67	TBA	Call	Call
161575	MR-BKCNS1	Brake connector for HF-SP motor, IP67	£31.00	Call	Call

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MR-J3 General Accessories

SAP No.	Catalogue No.	Description	Price	Discount	Price
160224	MR-J3BAT	J3 battery for absolute encoder mode	£14.00	Call	Call
160229	MR-J3USBCBL3M	J3 USB cable	£48.00	Call	Call
189332	2F230-006-230MFa	EMC filter for MR-J3-10A/B to MR-J3-60A/B	£51.00	Call	Call
189331	2F230-006-230MFb	EMC filter for MR-J3-70A/B	£51.00	Call	Call

MR-J3 type A Accessories

SAP No.	Catalogue No.	Description	Price	Discount	Price
160225	MR-J3-CN1	I/O breakout CN1 connector for J3 type A servo drive	£12.00	Call	Call
168127	MR-J3-TB50KIT2M	I/O breakout CN1 kit for J3 type A servo drive with 2m cable and breakout board	£187.00	Call	Call
161578	MR-J3CN6TBL1M	CN6 connector for J3 type A servo drive with 1m flying lead	£12.00	Call	Call

MR-J3 type B Accessories

SAP No.	Catalogue No.	Description	Price	Discount	Price
Lutze	NLMR-CCN1-2M	I/O breakout flying lead for CN3 on J3 Type B controllers, 2m long, 150mm stripped ends	P.O.A.	Call	Call
55912	MR-CCN1	I/O breakout solder type connector for CN3 on J3 Type B controllers	£16.00	Call	Call
Lutze	NL711830	20 way breakout board for J3 type B I/O	£31.17	Call	Call
Lutze	NLJ3B-CN3-2M	2m cable from J3 CN3 to the above breakout board	£49.10	Call	Call
61390	MR-TB20	20 way terminal box to use with FX3U-20SSC-H	£51.00	Call	Call
125584	FX-16E-150CAB	20 way ribbon cable for above terminal box	£21.00	Call	Call
161579	MR-J3BUS015M	0.15m SSCNET III cable from Q17*HCPU to MR-J3 amplifier (also J3 to J3 amplifier)	£60.00	Call	Call
161580	MR-J3BUS03M	0.3m SSCNET III cable from Q17*HCPU to MR-J3 amplifier (also J3 to J3 amplifier)	£60.00	Call	Call
161581	MR-J3BUS05M	0.5m SSCNET III cable from Q17*HCPU to MR-J3 amplifier (also J3 to J3 amplifier)	£62.00	Call	Call
161582	MR-J3BUS1M	1m SSCNET III cable from Q17*HCPU to MR-J3 amplifier (also J3 to J3 amplifier)	£64.00	Call	Call
161583	MR-J3BUS3M	3m SSCNET III cable from Q17*HCPU to MR-J3 amplifier (also J3 to J3 amplifier)	£72.00	Call	Call
161584	MR-J3BUS5M-A	5m SSCNET III external cable from Q17*HCPU to MR-J3 amplifier (also J3 to J3 amplifier)	£82.00	Call	Call
161585	MR-J3BUS10M-A	10m SSCNET III external cable from Q17*HCPU to MR-J3 amplifier (also J3 to J3 amplifier)	£110.00	Call	Call
161586	MR-J3BUS20M-A	20m SSCNET III external cable from Q17*HCPU to MR-J3 amplifier (also J3 to J3 amplifier)	£164.00	Call	Call

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Without brake

Analogue or Pulse controlled

MR-J3-A - Standard amplifier & Servo motor combinations (200V single phase)

Motor power	Amplifier	Motor	Control terminal		EMC Filter	Encoder cable (example 5m)	Motor cable (example 5m)	Brake cable (example 5m)
			Breakout box assembly	<u>OR</u> Connector Only				
50W	MR-J3-10A 16 0 2 10	HF-KP053 16 150 7	MR-J3-TBKIT50-2M 16 8 12 7	MR-J3CN1	2F230-006-230M Fa 18 9 3 3 2	MR-J3ENCBL5M-A2-L 16 1555	MR-PWS1CBL5M-A2-L 16 16 0 0	Not Required
100W	MR-J3-10A 16 14 8 5	HF-KP13 16 0 2 11	MR-J3-TBKIT50-2M 16 8 12 7	MR-J3CN1	2F230-006-230M Fa 18 9 3 3 2	MR-J3ENCBL5M-A2-L 16 1555	MR-PWS1CBL5M-A2-L 16 16 0 0	Not Required
200W	MR-J3-20A 16 14 8 6	HF-KP23 16 150 8	MR-J3-TBKIT50-2M 16 8 12 7	MR-J3CN1	2F230-006-230M Fa 18 9 3 3 2	MR-J3ENCBL5M-A2-L 16 1555	MR-PWS1CBL5M-A2-L 16 16 0 0	Not Required
400W	MR-J3-40A 16 14 8 7	HF-KP43 16 150 9	MR-J3-TBKIT50-2M 16 8 12 7	MR-J3CN1	2F230-006-230M Fa 18 9 3 3 2	MR-J3ENCBL5M-A2-L 16 1555	MR-PWS1CBL5M-A2-L 16 16 0 0	Not Required
750W	MR-J3-70A 16 14 8 8	HF-KP73 16 1510	MR-J3-TBKIT50-2M 16 8 12 7	MR-J3CN1	2F230-006-230M Fb 18 9 3 3 1	MR-J3ENCBL5M-A2-L 16 1555	MR-PWS1CBL5M-A2-L 16 16 0 0	Not Required

SSCNET III bus control

MR-J3-B - Standard amplifier & Servo motor combinations (200V single phase)

Motor power	Amplifier	Motor	Connection to controller SSCNET III(1m)	Control I/O (Limits, Stop and Dog etc.)		EMC Filter	Encoder cable (example 5m)	Motor cable (example 5m)	Brake cable (example 5m)
				I/O Breakout Cable	<u>OR</u> I/O Connector Only				
50W	MR-J3-10B 16 14 9 7	HF-KP053 16 150 7	MR-J3BUS1M 16 158 2	NLMR-CCN1-2M	MR-CCN1 559 12	2F230-006-230M Fa 18 9 3 3 2	MR-J3ENCBL5M-A2-L 16 1555	MR-PWS1CBL5M-A2-L 16 16 0 0	Not Required
100W	MR-J3-10B 16 14 9 7	HF-KP13 16 0 2 11	MR-J3BUS1M 16 158 2	NLMR-CCN1-2M	MR-CCN1 559 12	2F230-006-230M Fa 18 9 3 3 2	MR-J3ENCBL5M-A2-L 16 1555	MR-PWS1CBL5M-A2-L 16 16 0 0	Not Required
200W	MR-J3-20B 16 14 9 8	HF-KP23 16 150 8	MR-J3BUS1M 16 158 2	NLMR-CCN1-2M	MR-CCN1 559 12	2F230-006-230M Fa 18 9 3 3 2	MR-J3ENCBL5M-A2-L 16 1555	MR-PWS1CBL5M-A2-L 16 16 0 0	Not Required
400W	MR-J3-40B 16 14 9 9	HF-KP43 16 150 9	MR-J3BUS1M 16 158 2	NLMR-CCN1-2M	MR-CCN1 559 12	2F230-006-230M Fa 18 9 3 3 2	MR-J3ENCBL5M-A2-L 16 1555	MR-PWS1CBL5M-A2-L 16 16 0 0	Not Required
750W	MR-J3-70B 16 150 1	HF-KP73 16 1510	MR-J3BUS1M 16 158 2	NLMR-CCN1-2M	MR-CCN1 559 12	2F230-006-230M Fb 18 9 3 3 1	MR-J3ENCBL5M-A2-L 16 1555	MR-PWS1CBL5M-A2-L 16 16 0 0	Not Required



Controls & Drives

200V servo system

selection guide

With brake

Analogue or Pulse controlled

MR-J3-A - Standard amplifier & braked Servo motor combinations (200V single phase)

Motor power	Amplifier	Motor	Control terminal		EM C Filter	Encoder cable (example 5m)	Motor cable (example 5m)	Brake cable (example 5m)
			Breakout box assembly	OR Connector Only				
50W	MR-J3-10A 16 0 2 10	HF-KP053B 16 0 2 13	MR-J3-TBKIT50-2M 16 8 12 7	MR-J3CN1	2F230-006-230M Fa 18 9 3 3 2	MR-J3ENCBL5M-A2-L 16 15 5 5	MR-PWS1CBL5M-A2-L 16 16 0 0	MR-BKS1CBL5M-A2-L 16 16 1 3
100W	MR-J3-10A 16 0 2 10	HF-KP13B 16 15 1 1	MR-J3-TBKIT50-2M 16 8 12 7	MR-J3CN1	2F230-006-230M Fa 18 9 3 3 2	MR-J3ENCBL5M-A2-L 16 15 5 5	MR-PWS1CBL5M-A2-L 16 16 0 0	MR-BKS1CBL5M-A2-L 16 16 1 3
200W	MR-J3-20A 16 14 8 5	HF-KP23B 16 15 1 2	MR-J3-TBKIT50-2M 16 8 12 7	MR-J3CN1	2F230-006-230M Fa 18 9 3 3 2	MR-J3ENCBL5M-A2-L 16 15 5 5	MR-PWS1CBL5M-A2-L 16 16 0 0	MR-BKS1CBL5M-A2-L 16 16 1 3
400W	MR-J3-40A 16 14 8 6	HF-KP43B 16 15 1 3	MR-J3-TBKIT50-2M 16 8 12 7	MR-J3CN1	2F230-006-230M Fa 18 9 3 3 2	MR-J3ENCBL5M-A2-L 16 15 5 5	MR-PWS1CBL5M-A2-L 16 16 0 0	MR-BKS1CBL5M-A2-L 16 16 1 3
750W	MR-J3-70A 16 14 8 8	HF-KP73B 16 15 1 4	MR-J3-TBKIT50-2M 16 8 12 7	MR-J3CN1	2F230-006-230M Fb 18 9 3 3 1	MR-J3ENCBL5M-A2-L 16 15 5 5	MR-PWS1CBL5M-A2-L 16 16 0 0	MR-BKS1CBL5M-A2-L 16 16 1 3

SSCNET III bus control

MR-J3-B - Standard amplifier & braked Servo motor combinations (200V single phase)

Motor power	Amplifier	Motor	Connection to controller SSCNET III(1m)	Control I/O (Limits, Stop and Dog etc.)		EM C Filter	Encoder cable (example 5m)	Motor cable (example 5m)	Brake cable (example 5m)
				I/O Breakout Cable	OR I/O Connector Only				
50W	MR-J3-10B 16 14 9 7	HF-KP053B 16 0 2 13	MR-J3BUS1M 16 15 8 2	NLMR-CCN1-2M	MR-CCN1 5 5 9 1 2	2F230-006-230M Fa 18 9 3 3 2	MR-J3ENCBL5M-A2-L 16 15 5 5	MR-PWS1CBL5M-A2-L 16 16 0 0	MR-BKS1CBL5M-A2-L 16 16 1 3
100W	MR-J3-10B 16 14 9 7	HF-KP13B 16 15 1 1	MR-J3BUS1M 16 15 8 2	NLMR-CCN1-2M	MR-CCN1 5 5 9 1 2	2F230-006-230M Fa 18 9 3 3 2	MR-J3ENCBL5M-A2-L 16 15 5 5	MR-PWS1CBL5M-A2-L 16 16 0 0	MR-BKS1CBL5M-A2-L 16 16 1 3
200W	MR-J3-20B 16 14 9 8	HF-KP23B 16 15 1 2	MR-J3BUS1M 16 15 8 2	NLMR-CCN1-2M	MR-CCN1 5 5 9 1 2	2F230-006-230M Fa 18 9 3 3 2	MR-J3ENCBL5M-A2-L 16 15 5 5	MR-PWS1CBL5M-A2-L 16 16 0 0	MR-BKS1CBL5M-A2-L 16 16 1 3
400W	MR-J3-40B 16 14 9 9	HF-KP43B 16 15 1 3	MR-J3BUS1M 16 15 8 2	NLMR-CCN1-2M	MR-CCN1 5 5 9 1 2	2F230-006-230M Fa 18 9 3 3 2	MR-J3ENCBL5M-A2-L 16 15 5 5	MR-PWS1CBL5M-A2-L 16 16 0 0	MR-BKS1CBL5M-A2-L 16 16 1 3
750W	MR-J3-70B 16 15 0 1	HF-KP73B 16 15 1 4	MR-J3BUS1M 16 15 8 2	NLMR-CCN1-2M	MR-CCN1 5 5 9 1 2	2F230-006-230M Fb 18 9 3 3 1	MR-J3ENCBL5M-A2-L 16 15 5 5	MR-PWS1CBL5M-A2-L 16 16 0 0	MR-BKS1CBL5M-A2-L 16 16 1 3

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Fax: 0871 222 9166

Without brake

Analogue or Pulse controlled

MR-J3-A - Standard amplifier & Servo motor combinations (400V 3 phase)

Motor power	Amplifier	Motor	Control terminal		EMC Filter	Encoder cable (example 5m)	Power connector	Brake connector
			Breakout box assembly	OR Connector Only				
500W	MR-J3-60A4	HF-SP524	MR-J3-TBKIT50-2M 16 8 12 7	MR-J3CN1		MR-J3ENSCBL5M-L 16 156 8	MR-PWCNS4 16 1573	Not Required
1kW	MR-J3-100A4	HF-SP1024	MR-J3-TBKIT50-2M 16 8 12 7	MR-J3CN1		MR-J3ENSCBL5M-L 16 156 8	MR-PWCNS4 16 1573	Not Required
1.5kW	MR-J3-200A4	HF-SP1524	MR-J3-TBKIT50-2M 16 8 12 7	MR-J3CN1		MR-J3ENSCBL5M-L 16 156 8	MR-PWCNS4 16 1573	Not Required
2kW	MR-J3-200A4	HF-SP2024	MR-J3-TBKIT50-2M 16 8 12 7	MR-J3CN1		MR-J3ENSCBL5M-L 16 156 8	MR-PWCNS5	Not Required
3.5kW	MR-J3-350A4	HF-SP3524	MR-J3-TBKIT50-2M 16 8 12 7	MR-J3CN1		MR-J3ENSCBL5M-L 16 156 8	MR-PWCNS5	Not Required
5kW	MR-J3-500A4	HF-SP5024	MR-J3-TBKIT50-2M 16 8 12 7	MR-J3CN1		MR-J3ENSCBL5M-L 16 156 8	MR-PWCNS5	Not Required
7kW	MR-J3-700A4	HF-SP7024	MR-J3-TBKIT50-2M 16 8 12 7	MR-J3CN1		MR-J3ENSCBL5M-L 16 156 8	MR-PWCNS6	Not Required

SSCNET III bus control

MR-J3-B - Standard amplifier & Servo motor combinations (400V 3 phase)

Motor power	Amplifier	Motor	Connection to controller SSCNET III(1m)	Control I/O (Limits, Stop and Dog etc.)		EMC Filter	Encoder cable (example 5m)	Motor cable (example 5m)	Brake cable (example 5m)
				I/O Breakout Cable	OR I/O Connector Only				
500W	MR-J3-60B4	HF-SP524	MR-J3BUS1M 16 158 2	NLMR-CCN1-2M	MR-CCN1 559 12		MR-J3ENSCBL5M-L 16 156 8	MR-PWCNS4 16 1573	Not Required
1kW	MR-J3-100B4	HF-SP1024	MR-J3BUS1M 16 158 2	NLMR-CCN1-2M	MR-CCN1 559 12		MR-J3ENSCBL5M-L 16 156 8	MR-PWCNS4 16 1573	Not Required
1.5kW	MR-J3-200B4	HF-SP1524	MR-J3BUS1M 16 158 2	NLMR-CCN1-2M	MR-CCN1 559 12		MR-J3ENSCBL5M-L 16 156 8	MR-PWCNS4 16 1573	Not Required
2kW	MR-J3-200B4	HF-SP2024	MR-J3BUS1M 16 158 2	NLMR-CCN1-2M	MR-CCN1 559 12		MR-J3ENSCBL5M-L 16 156 8	MR-PWCNS5	Not Required
3.5kW	MR-J3-350B4	HF-SP3524	MR-J3BUS1M 16 158 2	NLMR-CCN1-2M	MR-CCN1 559 12		MR-J3ENSCBL5M-L 16 156 8	MR-PWCNS5	Not Required
5kW	MR-J3-500B4	HF-SP5024	MR-J3BUS1M 16 158 2	NLMR-CCN1-2M	MR-CCN1 559 12		MR-J3ENSCBL5M-L 16 156 8	MR-PWCNS5	Not Required
7kW	MR-J3-700B4	HF-SP7024	MR-J3BUS1M 16 158 2	NLMR-CCN1-2M	MR-CCN1 559 12		MR-J3ENSCBL5M-L 16 156 8	MR-PWCNS6	Not Required

With brake

Analogue or Pulse controlled

MR-J3-A - Standard amplifier & braked Servo motor combinations (400V 3 phase)

Motor power	Amplifier	Motor	Control terminal		EM C Filter	Encoder cable (example 5m)	Motor power connector	Motor brake connector
			box assembly	<u>OR</u> Connector Only				
500W	MR-J3-60A4	HF-SP524B	MR-J3-TBKIT50-2M 16 8 12 7	MR-J3CN1		MR-J3ENSCBL5M-L 16 156 8	MR-PWCNS4 16 1573	MR-BKCMS1 16 1575
1kW	MR-J3-100A4	HF-SP1024B	MR-J3-TBKIT50-2M 16 8 12 7	MR-J3CN1		MR-J3ENSCBL5M-L 16 156 8	MR-PWCNS4 16 1573	MR-BKCMS1 16 1575
1.5kW	MR-J3-200A4	HF-SP1524B	MR-J3-TBKIT50-2M 16 8 12 7	MR-J3CN1		MR-J3ENSCBL5M-L 16 156 8	MR-PWCNS4 16 1573	MR-BKCMS1 16 1575
2kW	MR-J3-200A4	HF-SP2024B	MR-J3-TBKIT50-2M 16 8 12 7	MR-J3CN1		MR-J3ENSCBL5M-L 16 156 8	MR-PWCNS5 16 1573	MR-BKCMS1 16 1575
3.5kW	MR-J3-350A4	HF-SP3524B	MR-J3-TBKIT50-2M 16 8 12 7	MR-J3CN1		MR-J3ENSCBL5M-L 16 156 8	MR-PWCNS5 16 1573	MR-BKCMS1 16 1575
5kW	MR-J3-500A4	HF-SP5024B	MR-J3-TBKIT50-2M 16 8 12 7	MR-J3CN1		MR-J3ENSCBL5M-L 16 156 8	MR-PWCNS5 16 1573	MR-BKCMS1 16 1575
7kW	MR-J3-700A4	HF-SP7024B	MR-J3-TBKIT50-2M 16 8 12 7	MR-J3CN1		MR-J3ENSCBL5M-L 16 156 8	MR-PWCNS6 16 1573	MR-BKCMS1 16 1575

SSCNET III bus control

MR-J3-B - Standard amplifier & braked Servo motor combinations (400V 3 phase)

Motor power	Amplifier	Motor	Connection to controller SSCNET III (1m)	Control I/O (Limits, Stop and Dog etc.)		EM C Filter	Encoder cable (example 5m)	Motor cable (example 5m)	Brake cable (example 5m)
				I/O Breakout Cable	<u>OR</u> I/O Connector Only				
500W	MR-J3-60B4	HF-SP524B	MR-J3BUS1M 16 158 2	NLMR-CCN1-2M	MR-CCN1 559 12		MR-J3ENSCBL5M-L 16 156 8	MR-PWCNS4 16 1573	MR-BKCMS1 16 1575
1kW	MR-J3-100B4	HF-SP1024B	MR-J3BUS1M 16 158 2	NLMR-CCN1-2M	MR-CCN1 559 12		MR-J3ENSCBL5M-L 16 156 8	MR-PWCNS4 16 1573	MR-BKCMS1 16 1575
1.5kW	MR-J3-200B4	HF-SP1524B	MR-J3BUS1M 16 158 2	NLMR-CCN1-2M	MR-CCN1 559 12		MR-J3ENSCBL5M-L 16 156 8	MR-PWCNS4 16 1573	MR-BKCMS1 16 1575
2kW	MR-J3-200B4	HF-SP2024B	MR-J3BUS1M 16 158 2	NLMR-CCN1-2M	MR-CCN1 559 12		MR-J3ENSCBL5M-L 16 156 8	MR-PWCNS5 16 1573	MR-BKCMS1 16 1575
3.5kW	MR-J3-350B4	HF-SP3524B	MR-J3BUS1M 16 158 2	NLMR-CCN1-2M	MR-CCN1 559 12		MR-J3ENSCBL5M-L 16 156 8	MR-PWCNS5 16 1573	MR-BKCMS1 16 1575
5kW	MR-J3-500B4	HF-SP5024B	MR-J3BUS1M 16 158 2	NLMR-CCN1-2M	MR-CCN1 559 12		MR-J3ENSCBL5M-L 16 156 8	MR-PWCNS5 16 1573	MR-BKCMS1 16 1575
7kW	MR-J3-700B4	HF-SP7024B	MR-J3BUS1M 16 158 2	NLMR-CCN1-2M	MR-CCN1 559 12		MR-J3ENSCBL5M-L 16 156 8	MR-PWCNS6 16 1573	MR-BKCMS1 16 1575



MR-J2S Servo Amplifiers

- *Adaptive vibration suppression control function*
- *Separate wiring of the control power supply*
- *High responsiveness*
- *Real-Time Auto-Tuning (RTAT)*
- *Torque control function (MR-J2S-A)*
- *Servo-lock anti-vibration function*
- *RS-232C/RS-422 personal computer interface*
- *Automatic motor recognition*
- *Satisfies global industrial standards*

High-performance CPU – The application of a high-performance CPU has enhanced response significantly. The speed loop frequency was raised to 550 Hz or more (more than 2 times faster than previous models). Thus the MR-J2S series are the best units for use in high-speed positioning applications.

Integrated Positioning Functions – In addition to all the other features of the MR-J2S series, the new single axis MR-J2S-CL servo amplifiers also have an integrated programmable positioning function.

SSCNET – SSCNET (Servo System Controller Network) is Mitsubishi's dedicated motion control network. All MR-J2S-B amplifiers can be used on this network.



MR-J2S-A Servo Amplifiers

- 2 analogue reference inputs
- 1 digital pulse train input
- 7 preset speeds
- Can be used in Speed, Position or Torque Control modes

MR-J2S-A (standard type)

The MR-J2S-A series is ideal for servo applications using conventional control systems. The servo amplifiers have 2 analogue reference inputs & digital inputs for pulse train control signals. Using the digital pulse train method eliminates the problems inherent in analogue control, such as offset shifts caused by temperature fluctuations & drifting when the system is at rest.

The MR-J2S-A series can be used in torque, speed or position control modes.

This document contains list prices, for discounts please call your local branch

MR-J2S-A - Standard Type Servo Amplifiers (200V Range)

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
134807	MR-J2S-10A	100W Servo amplifier (digital or analogue control) 200V single-phase	£636.00	Call	Call
134808	MR-J2S-20A	200W Servo amplifier (digital or analogue control) 200V single-phase	£681.00	Call	Call
134806	MR-J2S-40A	400W Servo amplifier (digital or analogue control) 200V single-phase	£710.00	Call	Call
134828	MR-J2S-60A	600W Servo amplifier (digital or analogue control) 200V single-phase	£737.00	Call	Call
134829	MR-J2S-70A	750W Servo amplifier (digital or analogue control) 200V single-phase	£901.00	Call	Call

MR-J2S-A4 - Standard Type Servo Amplifiers (400V Range)

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
151546	MR-J2S-60A4	600W Servo amplifier (digital or analogue control) 400V 3-phase	£715.00	Call	Call
151547	MR-J2S-100A4	1kW Servo amplifier (digital or analogue control) 400V 3-phase	£1,315.00	Call	Call
151548	MR-J2S-200A4	2kW Servo amplifier (digital or analogue control) 400V 3-phase	£1,528.00	Call	Call
150830	MR-J2S-350A4	3.5kW Servo amplifier (digital or analogue control) 400V 3-phase	£1,764.00	Call	Call
150832	MR-J2S-500A4	5kW Servo amplifier (digital or analogue control) 400V 3-phase	£2,029.00	Call	Call
151550	MR-J2S-700A4	7kW Servo amplifier (digital or analogue control) 400V 3-phase	£2,293.00	Call	Call

For details of larger sizes, please contact your local branch

Prices shown exclude VAT & are subject to BPX standard terms & conditions of sale

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Tel: 01782 564400
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Welwyn
Tel: 0871 222 9155
Fax: 0871 222 9166



MR-J2S-B Servo Amplifiers

- Plug-&-play SSCNET network
- Brake can be controlled directly by the amplifier
- Emulated encoder outputs for connection of conventional slave drive systems
- Amplifier replacement is fast & simple because parameters & settings are administered by the connected controller
- Automatic position identification on power-up thanks to absolute position encoding as standard (provided the optional battery is fitted)

MR-J2S-B (SSCNET bus type)

The MR-J2S-B series supports connection to Mitsubishi motion control & positioning control systems. The drive systems are connected to these controllers via SSCNET, a high-speed motion control network with a cycle period of just 0.8 ms. Setting up this plug-&-play network couldn't be easier; you just have to select the axis address & connect the preconfigured bus cable, which also makes wiring errors impossible.

This document contains list prices, for discounts please call your local branch

MR-J2S-B - SSCNET Bus Servo Amplifiers (200V Range)

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
134833	MR-J2S-10B	100W Servo amplifier (SSCNET bus control) 200V single-phase	£617.00	Call	Call
134834	MR-J2S-20B	200W Servo amplifier (SSCNET bus control) 200V single-phase	£660.00	Call	Call
134835	MR-J2S-40B	400W Servo amplifier (SSCNET bus control) 200V single-phase	£690.00	Call	Call
134836	MR-J2S-60B	600W Servo amplifier (SSCNET bus control) 200V single-phase	£715.00	Call	Call
134837	MR-J2S-70B	750W Servo amplifier (SSCNET bus control) 200V single-phase	£875.00	Call	Call

MR-J2S-B4 - SSCNET Bus Servo Amplifiers (400V Range)

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
154329	MR-J2S-60B4	600W Servo amplifier (SSCNET bus control) 400V 3-phase	£715.00	Call	Call
154328	MR-J2S-100B4	1kW Servo amplifier (SSCNET bus control) 400V 3-phase	£1,315.00	Call	Call
154327	MR-J2S-200B4	2kW Servo amplifier (SSCNET bus control) 400V 3-phase	£1,528.00	Call	Call
154326	MR-J2S-350B4	3.5kW Servo amplifier (SSCNET bus control) 400V 3-phase	£1,764.00	Call	Call
154325	MR-J2S-500B4	5kW Servo amplifier (SSCNET bus control) 400V 3-phase	£2,029.00	Call	Call
154324	MR-J2S-700B4	7kW Servo amplifier (SSCNET bus control) 400V 3-phase	£2,293.00	Call	Call

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MR-J2S-CL Servo Amplifiers

- 16 programs with a total of up to 120 steps
- Analogue input for override signal
- Analogue input for torque limiting
- Emulated encoder outputs for connection of conventional slave drive systems
- Handwheel connection
- Interrupt halt facility

MR-J2S-CL (programmable type)

The MR-J2S-CL series is a compact & cost effective servo solution with integrated positioning control functionality. It's efficient programming language makes it easy to program functions like incremental & absolute positioning, loops & program triggering by input signal or on the basis of position values. You can store up to 16 programs with a maximum of 120 steps in the unit. Programs can be activated with the digital inputs or through the serial port.

This document contains list prices, for discounts please call your local branch

MR-J2S-CL - Programmable Type Servo Amplifiers (200V Range)

SAP No.	No.	Description	Price	Discount	Nett Price
146271	MR-J2S-10CL	100W Servo amplifier (programmable) 200V single-phase	£758.00	Call	Call
146270	MR-J2S-20CL	200W Servo amplifier (programmable) 200V single-phase	£800.00	Call	Call
146269	MR-J2S-40CL	400W Servo amplifier (programmable) 200V single-phase	£833.00	Call	Call
146268	MR-J2S-60CL	600W Servo amplifier (programmable) 200V single-phase	£860.00	Call	Call
146267	MR-J2S-70CL	750W Servo amplifier (programmable) 200V single-phase	£952.00	Call	Call

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Controls & Drives

HC-KFS

product information

HC-KFS 200V Servo Motors



Application examples:

- *Conveyors*
- *Food preparation machinery*
- *Printers*
- *Small loaders & unloaders*
- *Small robots & component assembly devices*
- *Small X-Y tables*
- *Small press feeders*

HC-KFS 200V low inertia servo motors

Larger motor inertia moment makes this unit well suited for machines with fluctuating load inertia moment or machines with low rigidity, such as conveyors.

This document contains list prices, for discounts please call your local branch

HC-KFS, low inertia, small capacity motors, 3,000rpm, IP55 (200V series motors)

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
134872	HC-KFS053	Low -inertia 50W Servo motor (0.16Nm continuous, 0.48Nm peak)	£404.00	Call	Call
134845	HC-KFS13	Low -inertia 100W Servo motor (0.32Nm continuous, 0.95Nm peak)	£422.00	Call	Call
126013	HC-KFS23	Low -inertia 200W Servo motor (0.64Nm continuous, 1.9Nm peak)	£517.00	Call	Call
134873	HC-KFS43	Low -inertia 400W Servo motor (1.3Nm continuous, 3.8Nm peak)	£610.00	Call	Call
135968	HC-KFS73	Low -inertia 750W Servo motor (2.4Nm continuous, 7.2Nm peak)	£641.00	Call	Call

HC-KFS, low inertia, small capacity motors, 3,000rpm with brake, IP55 (200V series motors)

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
134844	HC-KFS053B	Low -inertia 50W Servo motor with brake (0.16Nm continuous, 0.48Nm peak)	£641.00	Call	Call
134874	HC-KFS13B	Low -inertia 100W Servo motor with brake (0.32Nm continuous, 0.95Nm peak)	£659.00	Call	Call
134875	HC-KFS23B	Low -inertia 200W Servo motor with brake (0.64Nm continuous, 1.9Nm peak)	£802.00	Call	Call
134876	HC-KFS43B	Low -inertia 400W Servo motor with brake (1.3Nm continuous, 3.8Nm peak)	£908.00	Call	Call
135967	HC-KFS73B	Low -inertia 750W Servo motor with brake (2.4Nm continuous, 7.2Nm peak)	£939.00	Call	Call

For details of larger sizes, please contact your local branch

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HC-SFS 400V Servo Motors

Application examples:

- Conveyor machinery
- Specialised machinery
- Robots
- Loaders & unloaders
- Winders & tension devices
- Turrets
- X-Y tables
- Test devices

HC-SFS 400V medium inertia servo motors

Stable control is performed from low to high speeds, enabling this unit to handle a wide range of applications (e.g. direct connection to ball screw components).

This document contains list prices, for discounts please call your local branch

HC-SFS, medium inertia, medium capacity motors, 2,000rpm, (400V series motors)

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
151551	HC-SFS524	Medium-inertia 500W Servo motor (2.39Nm continuous, 7.16Nm peak)	£660.00	Call	Call
151554	HC-SFS1024	Medium-inertia 1kW Servo motor (4.78Nm continuous, 14.4Nm peak)	£852.00	Call	Call
151555	HC-SFS1524	Medium-inertia 1.5kW Servo motor (7.16Nm continuous, 21.6Nm peak)	£985.00	Call	Call
151556	HC-SFS2024	Medium-inertia 2kW Servo motor (9.55Nm continuous, 28.5Nm peak)	£1,078.00	Call	Call
150873	HC-SFS3524	Medium-inertia 3.5kW Servo motor (16.7Nm continuous, 50.1Nm peak)	£1,215.00	Call	Call
150875	HC-SFS5024	Medium-inertia 5kW Servo motor (23.9Nm continuous, 71.6Nm peak)	£2,028.00	Call	Call
151557	HC-SFS7024	Medium-inertia 7kW Servo motor (33.4Nm continuous, 100Nm peak)	£2,249.00	Call	Call

HC-SFS, medium inertia, medium capacity motors with brake, 2,000rpm, (400V series motors)

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
151558	HC-SFS524B	Medium-inertia 500W Servo motor with brake (2.39Nm cont, 7.16Nm peak)	£838.00	Call	Call
151559	HC-SFS1024B	Medium-inertia 1kW Servo motor with brake (4.78Nm cont, 14.4Nm peak)	£955.00	Call	Call
151560	HC-SFS1524B	Medium-inertia 1.5kW Servo motor with brake (7.16Nm cont, 21.6Nm peak)	£1,116.00	Call	Call
151562	HC-SFS2024B	Medium-inertia 2kW Servo motor with brake (9.55Nm cont, 28.5Nm peak)	£1,275.00	Call	Call
150879	HC-SFS3524B	Medium-inertia 3.5kW Servo motor with brake (16.7Nm cont, 50.1Nm peak)	£1,497.00	Call	Call
150880	HC-SFS5024B	Medium-inertia 5kW Servo motor with brake (23.9Nm cont, 71.6Nm peak)	£2,278.00	Call	Call
151563	HC-SFS7024B	Medium-inertia 7kW Servo motor with brake (33.4Nm cont, 100Nm peak)	£2,589.00	Call	Call

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Controls & Drives

Cables, connectors, accessories, etc.

This document contains list prices, for discounts please call your local branch

Control wiring & connectors

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
155696	MR-J2S-TB20KIT-05M	MR-J2S connector kit (incl. 2 x 20 way terminal blocks & 2 x 0.5m cables for CN1A & CN1B)	£147.00	Call	Call
155697	MR-J2S-TB20KIT-1M	MR-J2S connector kit (incl. 2 x 20 way terminal blocks & 2 x 1m cables for CN1A & CN1B)	£183.00	Call	Call
161362	MR-J2S-10PG-KIT-1M	MR-J2S connector kit for FX2N-10PG (incl. 1m cables for CN1A & CN1B)	£191.00	Call	Call
70009	MR-J2HBUS05M-A	0.5m A-Motion controller/A1SD74M series modules to MR-J2S-B amplifier, SSCNET cable	£110.00	Call	Call
86733	MR-J2HBUS1M-A	1m A-Motion controller/A1SD74M series modules to MR-J2S-B amplifier, SSCNET cable	£126.00	Call	Call
70006	MR-J2HBUS5M-A	5m A-Motion controller/A1SD74M series modules to MR-J2S-B amplifier, SSCNET cable	£144.00	Call	Call
70004	MR-A-TM	SSCNET termination resistor	£18.00	Call	Call

Encoder cables

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
61372	MR-JCCBL2M-L	2m encoder cable for HC-KFS, 3,000rpm series motors	£33.00	Call	Call
55550	MR-JCCBL5M-L	5m encoder cable for HC-KFS, 3,000rpm series motors	£35.00	Call	Call
61332	MR-JCCBL10M-L	10m encoder cable for HC-KFS, 3,000rpm series motors	£57.00	Call	Call
61373	MR-JCCBL20M-L	20m encoder cable for HC-KFS, 3,000rpm series motors	£181.00	Call	Call
61374	MR-JCCBL30M-L	30m encoder cable for HC-KFS, 3,000rpm series motors	£264.00	Call	Call
61380	MR-JHSCBL2M-L	2m encoder cable for HC-SFS, 2,000rpm series motors	£33.00	Call	Call
61191	MR-JHSCBL5M-L	5m encoder cable for HC-SFS, 2,000rpm series motors	£35.00	Call	Call
61194	MR-JHSCBL10M-L	10m encoder cable for HC-SFS, 2,000rpm series motors	£57.00	Call	Call
61195	MR-JHSCBL20M-L	20m encoder cable for HC-SFS, 2,000rpm series motors	£181.00	Call	Call
61197	MR-JHSCBL30M-L	30m encoder cable for HC-SFS, 2,000rpm series motors	£264.00	Call	Call

Power connector sets

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
131663	MR-PWCNK1	Power supply connector for HC-KFS, 3,000rpm series motors	£22.00	Call	Call
131664	MR-PWCNK2	Power supply connector for HC-KFS, 3,000rpm series motors with brake	£42.00	Call	Call
64036	MR-PWCNS1	Power supply connector for HC-SFS524 to 1524, 3,000rpm series motors	£22.00	Call	Call
64035	MR-PWCNS2	Power supply connector for HC-SFS2024 to 5024, 3,000rpm series motors	£22.00	Call	Call
136358	MR-PWCNS3	Power supply connector for HC-SFS7024, 3,000rpm series motors	£106.00	Call	Call

Brake connector sets

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
64034	MR-BKCN	For HC-SFS2024B to 7024B (not required for HC-SFS1524B & smaller)	£42.00	Call	Call

Accessories

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
103862	MR-BAT	Servo amplifier battery	£42.00	Call	Call
140055	MF-2F230-007.230	EMC filter for MR-J2S-10A/B/CL to MR-J2S-70A/B/CL	£52.00	Call	Call
156428	MF-3F480-010.230	EMC filter for MR-J2S-60A4/B4 to MR-J2S-200A4/B4	£127.00	Call	Call
156429	MF-3F480-025.230	EMC filter for MR-J2S-350A4/B4 to MR-J2S-700A4/B4	£168.00	Call	Call
137279	MR-RFH75-40	Optional brake resistor for MR-J2S-10A/B/CL to MR-J2S-70A/B/CL	£25.00	Call	Call
154428	MR-PWR-T-150-270	Optional brake resistor for MR-J2S-60A4/B4	£36.00	Call	Call
154746	MR-PWR-T-400-120	Optional brake resistor for MR-J2S-100A4/B4	£47.00	Call	Call
154750	MR-PWR-T-600-80	Optional brake resistor for MR-J2S-200A4/B4	£63.00	Call	Call
154751	MR-PWR-T-600-47	Optional brake resistor for MR-J2S-350A4/B4 to MR-J2S-500A4/B4	£63.00	Call	Call
154752	MR-PWR-T-600-26	Optional brake resistor for MR-J2S-700A4/B4	£63.00	Call	Call

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Without brake

Analogue or Pulse controlled

MR-J2S-A - Standard amplifier & Servo motor combinations (200V single phase)

Motor power	Amplifier	Motor	Encoder cable (example 5m)	Control terminal box assembly	Connection to FX2N-10PG	Motor power connector	Motor brake connector
50W	MR-J2S-10A 134807	HC-KFS053 134872	MR-JCCBL5M-L 55550	MR-J2S-TB20KIT-1M 155697	MR-J2S-10PGKIT-1M 161362	MR-PWCNK1 131663	Not required
100W	MR-J2S-10A 134807	HC-KFS13 134845	MR-JCCBL5M-L 55550	MR-J2S-TB20KIT-1M 155697	MR-J2S-10PGKIT-1M 161362	MR-PWCNK1 131663	Not required
200W	MR-J2S-20A 134808	HC-KFS23 126013	MR-JCCBL5M-L 55550	MR-J2S-TB20KIT-1M 155697	MR-J2S-10PGKIT-1M 161362	MR-PWCNK1 131663	Not required
400W	MR-J2S-40A 134806	HC-KFS43 134873	MR-JCCBL5M-L 55550	MR-J2S-TB20KIT-1M 155697	MR-J2S-10PGKIT-1M 161362	MR-PWCNK1 131663	Not required
750W	MR-J2S-70A 134829	HC-KFS73 135968	MR-JCCBL5M-L 55550	MR-J2S-TB20KIT-1M 155697	MR-J2S-10PGKIT-1M 161362	MR-PWCNK1 131663	Not required

SSCNET bus control

MR-J2S-B - Standard amplifier & Servo motor combinations (200V single phase)

Motor power	Amplifier	Motor	Encoder cable (example 5m)	Connection to controller (5m)	Termination resistor	Motor power connector	Motor brake connector
50W	MR-J2S-10B 134833	HC-KFS053 134872	MR-JCCBL5M-L 55550	MR-J2HBUS5M-A 70006	MR-A-TM 70004	MR-PWCNK1 131663	Not required
100W	MR-J2S-10B 134833	HC-KFS13 134845	MR-JCCBL5M-L 55550	MR-J2HBUS5M-A 70006	MR-A-TM 70004	MR-PWCNK1 131663	Not required
200W	MR-J2S-20B 134834	HC-KFS23 126013	MR-JCCBL5M-L 55550	MR-J2HBUS5M-A 70006	MR-A-TM 70004	MR-PWCNK1 131663	Not required
400W	MR-J2S-40B 134835	HC-KFS43 134873	MR-JCCBL5M-L 55550	MR-J2HBUS5M-A 70006	MR-A-TM 70004	MR-PWCNK1 131663	Not required
750W	MR-J2S-70B 134837	HC-KFS73 135968	MR-JCCBL5M-L 55550	MR-J2HBUS5M-A 70006	MR-A-TM 70004	MR-PWCNK1 131663	Not required

Programmable

MR-J2S-CL - Programmable amplifier & Servo motor combinations (200V single phase)

Motor power	Amplifier	Motor	Encoder cable (example 5m)	Control terminal box assembly	Motor power connector	Motor brake connector
50W	MR-J2S-10CL 146271	HC-KFS053 134872	MR-JCCBL5M-L 55550	MR-J2S-TB20KIT-1M 155697	MR-PWCNK1 131663	Not required
100W	MR-J2S-10CL 146271	HC-KFS13 134845	MR-JCCBL5M-L 55550	MR-J2S-TB20KIT-1M 155697	MR-PWCNK1 131663	Not required
200W	MR-J2S-20CL 146270	HC-KFS23 126013	MR-JCCBL5M-L 55550	MR-J2S-TB20KIT-1M 155697	MR-PWCNK1 131663	Not required
400W	MR-J2S-40CL 146269	HC-KFS43 134873	MR-JCCBL5M-L 55550	MR-J2S-TB20KIT-1M 155697	MR-PWCNK1 131663	Not required
750W	MR-J2S-70CL 146267	HC-KFS73 135968	MR-JCCBL5M-L 55550	MR-J2S-TB20KIT-1M 155697	MR-PWCNK1 131663	Not required



Controls & Drives

200V servo system

selection guide

With brake

Analogue or Pulse controlled

MR-J2S-A - Standard amplifier & braked Servo motor combinations (200V single phase)

Motor power	Amplifier	Motor	Encoder cable (example 5m)	Control terminal box assembly	OR	Connection to FX2N-10PG	Motor power connector	Motor brake connector
50W	MR-J2S-10A 134807	HC-KFS053B 134844	MR-JCCBL5M-L 55550	MR-J2S-TB20KIT-1M 155697		MR-J2S-10PGKIT-1M 161362	MR-PWCNK2 131664	Not required
100W	MR-J2S-10A 134807	HC-KFS13B 134874	MR-JCCBL5M-L 55550	MR-J2S-TB20KIT-1M 155697		MR-J2S-10PGKIT-1M 161362	MR-PWCNK2 131664	Not required
200W	MR-J2S-20A 134808	HC-KFS23B 134875	MR-JCCBL5M-L 55550	MR-J2S-TB20KIT-1M 155697		MR-J2S-10PGKIT-1M 161362	MR-PWCNK2 131664	Not required
400W	MR-J2S-40A 134806	HC-KFS43B 134876	MR-JCCBL5M-L 55550	MR-J2S-TB20KIT-1M 155697		MR-J2S-10PGKIT-1M 161362	MR-PWCNK2 131664	Not required
750W	MR-J2S-70A 134829	HC-KFS73B 135967	MR-JCCBL5M-L 55550	MR-J2S-TB20KIT-1M 155697		MR-J2S-10PGKIT-1M 161362	MR-PWCNK2 131664	Not required

SSCNET bus control

MR-J2S-B - Standard amplifier & braked Servo motor combinations (200V single phase)

Motor power	Amplifier	Motor	Encoder cable (example 5m)	Connection to controller (5m)	Termination resistor	Motor power connector	Motor brake connector
50W	MR-J2S-10B 134833	HC-KFS053B 134844	MR-JCCBL5M-L 55550	MR-J2HBUS5M-A 70006	MR-A-TM 70004	MR-PWCNK2 131664	Not required
100W	MR-J2S-10B 134833	HC-KFS13B 134874	MR-JCCBL5M-L 55550	MR-J2HBUS5M-A 70006	MR-A-TM 70004	MR-PWCNK2 131664	Not required
200W	MR-J2S-20B 134834	HC-KFS23B 134875	MR-JCCBL5M-L 55550	MR-J2HBUS5M-A 70006	MR-A-TM 70004	MR-PWCNK2 131664	Not required
400W	MR-J2S-40B 134835	HC-KFS43B 134876	MR-JCCBL5M-L 55550	MR-J2HBUS5M-A 70006	MR-A-TM 70004	MR-PWCNK2 131664	Not required
750W	MR-J2S-70B 134837	HC-KFS73B 135967	MR-JCCBL5M-L 55550	MR-J2HBUS5M-A 70006	MR-A-TM 70004	MR-PWCNK2 131664	Not required

Programmable

MR-J2S-CL - Programmable amplifier & braked Servo motor combinations (200V single phase)

Motor power	Amplifier	Motor	Encoder cable (example 5m)	Control terminal box assembly	Motor power connector	Motor brake connector
50W	MR-J2S-10CL 146271	HC-KFS053B 134844	MR-JCCBL5M-L 55550	MR-J2S-TB20KIT-1M 155697	MR-PWCNK2 131664	Not required
100W	MR-J2S-10CL 146271	HC-KFS13B 134874	MR-JCCBL5M-L 55550	MR-J2S-TB20KIT-1M 155697	MR-PWCNK2 131664	Not required
200W	MR-J2S-20CL 146270	HC-KFS23B 134875	MR-JCCBL5M-L 55550	MR-J2S-TB20KIT-1M 155697	MR-PWCNK2 131664	Not required
400W	MR-J2S-40CL 146269	HC-KFS43B 134876	MR-JCCBL5M-L 55550	MR-J2S-TB20KIT-1M 155697	MR-PWCNK2 131664	Not required
750W	MR-J2S-70CL 146267	HC-KFS73B 135967	MR-JCCBL5M-L 55550	MR-J2S-TB20KIT-1M 155697	MR-PWCNK2 131664	Not required

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Controls & Drives

400V servo system

selection guide

Without brake

Analogue or Pulse controlled

MR-J2S-A - Standard amplifier & Servo motor combinations (400V 3 phase)

Motor power	Amplifier	Motor	Encoder cable (example 5m)	Control terminal box assembly	OR	Connection to FX2N-10PG	Motor power connector	Motor brake connector
500W	MR-J2S-60A4 151546	HC-SFS524 151551	MR-JHSCBL5M-L 61191	MR-J2S-TB20KIT-1M 155697		MR-J2S-10PGKIT-1M 161362	MR-PWCNS1 64036	Not required
1kW	MR-J2S-100A4 151547	HC-SFS1024 151554	MR-JHSCBL5M-L 61191	MR-J2S-TB20KIT-1M 155697		MR-J2S-10PGKIT-1M 161362	MR-PWCNS1 64036	Not required
1.5kW	MR-J2S-200A4 151548	HC-SFS1524 151555	MR-JHSCBL5M-L 61191	MR-J2S-TB20KIT-1M 155697		MR-J2S-10PGKIT-1M 161362	MR-PWCNS1 64036	Not required
2kW	MR-J2S-200A4 151548	HC-SFS2024 151556	MR-JHSCBL5M-L 61191	MR-J2S-TB20KIT-1M 155697		MR-J2S-10PGKIT-1M 161362	MR-PWCNS2 64035	Not required
3.5kW	MR-J2S-350A4 150830	HC-SFS3524 150873	MR-JHSCBL5M-L 61191	MR-J2S-TB20KIT-1M 155697		MR-J2S-10PGKIT-1M 161362	MR-PWCNS2 64035	Not required
5kW	MR-J2S-500A4 150832	HC-SFS5024 150875	MR-JHSCBL5M-L 61191	MR-J2S-TB20KIT-1M 155697		MR-J2S-10PGKIT-1M 161362	MR-PWCNS2 64035	Not required
7kW	MR-J2S-700A4 151550	HC-SFS7024 151557	MR-JHSCBL5M-L 61191	MR-J2S-TB20KIT-1M 155697		MR-J2S-10PGKIT-1M 161362	MR-PWCNS3 132135	Not required

SSCNET bus control

MR-J2S-B - Standard amplifier & Servo motor combinations (400V 3 phase)

Motor power	Amplifier	Motor	Encoder cable (example 5m)	Connection to controller (5m)	Termination resistor	Motor power connector	Motor brake connector
500W	MR-J2S-60B4 154329	HC-SFS524 151551	MR-JHSCBL5M-L 61191	MR-J2HBUS5M-A 70006	MR-A-TM 70004	MR-PWCNS1 64036	Not required
1kW	MR-J2S-100B4 154328	HC-SFS1024 151554	MR-JHSCBL5M-L 61191	MR-J2HBUS5M-A 70006	MR-A-TM 70004	MR-PWCNS1 64036	Not required
1.5kW	MR-J2S-200B4 154327	HC-SFS1524 151555	MR-JHSCBL5M-L 61191	MR-J2HBUS5M-A 70006	MR-A-TM 70004	MR-PWCNS1 64036	Not required
2kW	MR-J2S-200B4 154327	HC-SFS2024 151556	MR-JHSCBL5M-L 61191	MR-J2HBUS5M-A 70006	MR-A-TM 70004	MR-PWCNS2 64035	Not required
3.5kW	MR-J2S-350B4 154326	HC-SFS3524 150873	MR-JHSCBL5M-L 61191	MR-J2HBUS5M-A 70006	MR-A-TM 70004	MR-PWCNS2 64035	Not required
5kW	MR-J2S-500B4 154325	HC-SFS5024 150875	MR-JHSCBL5M-L 61191	MR-J2HBUS5M-A 70006	MR-A-TM 70004	MR-PWCNS2 64035	Not required
7kW	MR-J2S-700B4 154324	HC-SFS7024 151557	MR-JHSCBL5M-L 61191	MR-J2HBUS5M-A 70006	MR-A-TM 70004	MR-PWCNS3 132135	Not required

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Controls & Drives

400V servo system

selection guide

With brake

Analogue or Pulse controlled

MR-J2S-A - Standard amplifier & braked Servo motor combinations (400V 3 phase)

Motor power	Amplifier	Motor	Encoder cable (example 5m)	Control terminal box assembly	Connection to FX2N-10PG	Motor power connector	Motor brake connector
500W	MR-J2S-60A4 151546	HC-SFS524B 151558	MR-JHSCBL5M-L 61191	MR-J2S-TB20KIT-1M 155697	MR-J2S-10PGKIT-1M 161362	MR-PWCNS1 64036	Not required
1kW	MR-J2S-100A4 151547	HC-SFS1024B 151559	MR-JHSCBL5M-L 61191	MR-J2S-TB20KIT-1M 155697	MR-J2S-10PGKIT-1M 161362	MR-PWCNS1 64036	Not required
1.5kW	MR-J2S-200A4 151548	HC-SFS1524B 151560	MR-JHSCBL5M-L 61191	MR-J2S-TB20KIT-1M 155697	MR-J2S-10PGKIT-1M 161362	MR-PWCNS1 64036	Not required
2kW	MR-J2S-200A4 151548	HC-SFS2024B 151562	MR-JHSCBL5M-L 61191	MR-J2S-TB20KIT-1M 155697	MR-J2S-10PGKIT-1M 161362	MR-PWCNS2 64035	MR-BKCN 64034
3.5kW	MR-J2S-350A4 150830	HC-SFS3524B 150879	MR-JHSCBL5M-L 61191	MR-J2S-TB20KIT-1M 155697	MR-J2S-10PGKIT-1M 161362	MR-PWCNS2 64035	MR-BKCN 64034
5kW	MR-J2S-500A4 150832	HC-SFS5024B 150880	MR-JHSCBL5M-L 61191	MR-J2S-TB20KIT-1M 155697	MR-J2S-10PGKIT-1M 161362	MR-PWCNS2 64035	MR-BKCN 64034
7kW	MR-J2S-700A4 151550	HC-SFS7024B 151563	MR-JHSCBL5M-L 61191	MR-J2S-TB20KIT-1M 155697	MR-J2S-10PGKIT-1M 161362	MR-PWCNS3 132135	MR-BKCN 64034

SSCNET bus control

MR-J2S-B - Standard amplifier & braked Servo motor combinations (400V 3 phase)

Motor power	Amplifier	Motor	Encoder cable (example 5m)	Connection to controller (5m)	Termination resistor	Motor power connector	Motor brake connector
500W	MR-J2S-60B4 154329	HC-SFS524B 151558	MR-JHSCBL5M-L 61191	MR-J2HBUS5M-A 70006	MR-A-TM 70004	MR-PWCNS1 64036	Not required
1kW	MR-J2S-100B4 154328	HC-SFS1024B 151559	MR-JHSCBL5M-L 61191	MR-J2HBUS5M-A 70006	MR-A-TM 70004	MR-PWCNS1 64036	Not required
1.5kW	MR-J2S-200B4 154327	HC-SFS1524B 151560	MR-JHSCBL5M-L 61191	MR-J2HBUS5M-A 70006	MR-A-TM 70004	MR-PWCNS1 64036	Not required
2kW	MR-J2S-200B4 154327	HC-SFS2024B 151562	MR-JHSCBL5M-L 61191	MR-J2HBUS5M-A 70006	MR-A-TM 70004	MR-PWCNS2 64035	MR-BKCN 64034
3.5kW	MR-J2S-350B4 154326	HC-SFS3524B 150879	MR-JHSCBL5M-L 61191	MR-J2HBUS5M-A 70006	MR-A-TM 70004	MR-PWCNS2 64035	MR-BKCN 64034
5kW	MR-J2S-500B4 154325	HC-SFS5024B 150880	MR-JHSCBL5M-L 61191	MR-J2HBUS5M-A 70006	MR-A-TM 70004	MR-PWCNS2 64035	MR-BKCN 64034
7kW	MR-J2S-700B4 154324	HC-SFS7024B 151563	MR-JHSCBL5M-L 61191	MR-J2HBUS5M-A 70006	MR-A-TM 70004	MR-PWCNS3 132135	MR-BKCN 64034

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Controls & Drives

PLC

product information



“Q” Modular PLC

- *Q Series PLC – rack mounted*
- *Positioning module – for point to point & continuous velocity*
- *Motion module – for all positioning applications including Gears, CAMs & Registration*
- *All motion modules have either SSCNET II/III or step outputs*
- *Up to 32 axis per motion module*

“Q” – The high performance modular PLC for your more demanding applications. Utilizing its multi CPU capability, the Q series can run 3 motion CPUs with 32 axis each, giving up to 96 axis of servo. Combine this with simple SSCNET connectivity & you get a powerful & elegant solution.

FX3u Brick Style PLC

- *NEW FX3u PLC – compact PLC with 64k memory*
- *Positioning capability of point to point & jogging*
- *NEW with 2 axis SSCNET III modules – can control up to 16 axis by using 8 modules*
- *10PG modules to give step output to control Stepper drives*



FX3u – The new compact brick style PLC, now with 64k of memory, up to 16 axis of servo motion on SSCNET & maximum of 384 I/O when using base & remote I/O. Advances in technology with the FX3u allow more applications to be solved using the more cost effective choice. With the new ADP modules giving the FX3u further expansion, with high speed I/O on the left hand side.

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Controls & Drives

PLC

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Q Series PLC

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
140378	Q00JCPU-E	Basic Q CPU module, 8k step memory, 200ns per instruction, single processor type, combined 5 slot base and 110-240V AC power supply	£355.00	Call	Call
127585	Q02HCPU	High speed Q CPU module, 28k step memory, 34ns per instruction, multi processor capability	£1,634.00	Call	Call
127593	Q61P-A2	200-240V AC input, 5V DC, 6A output	£131.00	Call	Call
127586	Q35B-E	CPU base with 5 I/O slots and 1 power supply slot	£115.00	Call	Call
127624	Q38B-E	CPU base with 8 I/O slots and 1 power supply slot	£166.00	Call	Call
129566	Q312B-E	CPU base with 12 I/O slots and 1 power supply slot	£198.00	Call	Call
127587	QX80	16 point, 24V DC input (4mA), source type, 16 points/common	£122.00	Call	Call
129594	QX81	32 point, 24V DC input (4mA), source type, 32 points/common	£205.00	Call	Call
127588	QY80	16 point transistor, 12-24V DC, 0.5A/point, 4A/common, source type, 16 points/common	£134.00	Call	Call
129607	QY81P	32 point transistor, 12-24V DC, 0.1A/point, 2A/common source type, 32 points/common	£233.00	Call	Call
129605	QY10	16 point relay 240V AC/24V DC, 2A contact, 16 points/common	£134.00	Call	Call
136401	QY18A	8 point relay 240V AC/24V DC, 2A contact, all points independent	£128.00	Call	Call
142153	QD75M1	Single axis SSCNET position control module (Qn)	£529.00	Call	Call
142154	QD75M2	Two axes SSCNET position control module (Qn)	£641.00	Call	Call
165761	QD75MH1	Single axis SSCNET III position control module (Qn)	£509.00	Call	Call
165762	QD75MH2	Two axes SSCNET III position control module (Qn)	£617.00	Call	Call
165763	QD75MH4	Four axes SSCNET III position control module (Qn)	£874.00	Call	Call
136395	QI60	Interrupt module, 16 point 12/24VDC (4mA/10mA)	£251.00	Call	Call
142204	Q170BAT	External battery holder	£44.00	Call	Call
140583	Q172LX	Servo external signal input module (FLS-RLS-STOP-DOG/CHANGE x 8)	£199.00	Call	Call
142695	Q172CPUN	8-axes Motion Controller (operation cycle 1.77ms and above)	£1,319.00	Call	Call
142696	Q173CPUN	32-axes Motion Controller (operation cycle 0.88ms and above)	£2,199.00	Call	Call
162417	Q172HCPU	8-axes Motion Controller (SSCNET III for use with J3-B only)	£1,319.00	Call	Call
162416	Q173HCPU	32-axes Motion Controller (SSCNET III for use with J3-B only)	£2,199.00	Call	Call
134139	A6CON1	Connector for use with A172SENC / QD75P / QD75D / QD75M series modules	£23.00	Call	Call

FX3u Series PLC

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
206137	FX3U-32MR/ES	FX3u PLC with 16 24V DC inputs and 16 relay outputs	£553.00	Call	Call
206169	FX3U-32MT/ESS	FX3u PLC with 16 24V DC inputs and 16 24V DC outputs	£553.00	Call	Call
206189	FX3U-20SSC-H	SSCNET III module for FX3u PLC, to control 2 servo axis	£513.00	Call	Call
140113	FX2N-10PG	Step output PLC module to control one axis of servo/stepper	£287.00	Call	Call
65776	FX2N-16EX-ES/UL	16 24V Digital Input module	£143.00	Call	Call
65581	FX2N-16EYT-ESS/UL	16 24V Digital Output module	£171.00	Call	Call
166286	FX2N-8EYR-ES/UL	16 Relay Output module	£102.00	Call	Call
165284	FX3U-USB-BD	USB Interface adapter incl. 3m USB cable and driver CD-ROM	£102.00	Call	Call
165285	FX3U-CNV-BD	FX3U ADP connector module (required if no other BD module is used)	£21.00	Call	Call
165241	FX3U-4AD-ADP	ADP 4 analogue input, 12 bit resolution	£205.00	Call	Call
165271	FX3U-4DA-ADP	ADP 4 analogue output, 12 bit resolution	£319.00	Call	Call

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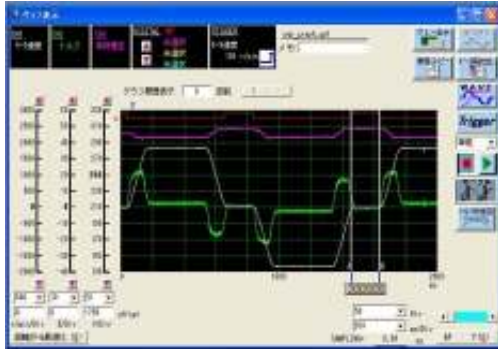
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Servocom Setup Software

- Store & load parameter files to servos
- Perform fine-tuning with oscilloscope style trending
- Make safe tests without motor
- Make S100 motion programmes
- Perform JOG & diagnostics

This intuitive software offers an alternative to the built-in pushbuttons of the servo amplifiers for a fast & easy set-up of the parameters for all the various servos in the Mitsubishi range.

GX Configurator QP (J2S) MT Developer (J3)

- Fast set-up & recall of 600 motion profiles & parameters for up to 3 axes
- Extensive handy path trace & oscilloscope style trending
- Safe offline path trace check without the need of a servo
- Perform JOG, Teach & diagnostics functions

Data No.	Pattern	Control method	Acc [ms]	Dec [ms]	Address [um]	Address(pole) [um]	Arc Add [um]	Arc Add(pole) [um]	Command speed [rev/min]	Dwell [ms/stopNo.]	M code
1	2LDCUS	1ABS Line1	0.300	0.300	50000.0	0	0.0	0	600.00	0	0
2	0END	1ABS Line1	0.300	0.300	10000.0	0	0.0	0	1200.00	0	0
3	0END	FFwd V/P	0.300	0.300	20000.0	0	0.0	0	81.92	0	0
4	1CONT	1ABS Line1	0.300	0.300	40000.0	0	0.0	0	600.00	0	0
5	1CONT	1ABS Line1	0.300	0.300	80000.0	0	0.0	0	1600.00	0	0
6	0END	1ABS Line1	0.300	0.300	0.0	0	0.0	0	2000.00	0	0
7	0END	SINC Line2	0.300	0.300	10000.0	20000.0	0.0	0.0	750.00	0	0
8	0END	B:INC AcRGT	0.300	0.300	40000.0	40000.0	40000.0	0.0	400.00	0	0

Not always required but certainly recommended because this software most certainly reduces a simple programme from 200 steps to just 30!

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Programming software

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
113863	SERV/OCOM + CAB	Servo set-up software with communication connection cable	£208.00	Call	Call
147091	GX Configurator QP	Windows based programming software for the QD75P, QD75D & QD75M series positioning modules	£315.00	Call	Call

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Controls & Drives

MCBs & Contactors

product information

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MCBs

Amplifier		MCB Rating	Minimum input power cable	MCB					
Power	Voltage			SAP No.	Catalogue No.	Price	Discount	Nett Price	
100W	200V	5 amp	2mm ²	136979	NF30-FAU-2P-10A	£19.00	Call	Call	
200W	200V	5 amp	2mm ²	136979	NF30-FAU-2P-10A	£19.00	Call	Call	
400W	200V	10 amp	2mm ²	136979	NF30-FAU-2P-10A	£19.00	Call	Call	
750W	200V	15 amp	2mm ²	136955	NF30-FAU-2P-15A	£19.00	Call	Call	
600W	400V	5 amp	2mm ²	136980	NF30-FAU-3P-5A	£23.00	Call	Call	
1kW	400V	10 amp	2mm ²	136981	NF30-FAU-3P-10A	£23.00	Call	Call	
2kW	400V	15 amp	2mm ²	136982	NF30-FAU-3P-15A	£23.00	Call	Call	
3.5kW	400V	20 amp	3.5mm ²	136983	NF30-FAU-3P-20A	£23.00	Call	Call	
5kW	400V	30 amp	5.5mm ²	136954	NF30-FAU-3P-30A	£23.00	Call	Call	
7kW	400V	40 amp	5.5mm ²	204497	NF63-SW-3P-40A W	£36.00	Call	Call	



24V DC Contactors



Amplifier		24V DC Contactor				
Power	Voltage	SAP No	Catalogue No.	Price	Discount	Nett Price
100W	200V	52566	S-N10SX24AC	£15.00	Call	Call
200W	200V	52566	S-N10SX24AC	£15.00	Call	Call
400W	200V	52566	S-N10SX24AC	£15.00	Call	Call
750W	200V	52566	S-N10SX24AC	£15.00	Call	Call
600W	400V	52566	S-N10SX24AC	£15.00	Call	Call
1kW	400V	52566	S-N10SX24AC	£15.00	Call	Call
2kW	400V	52566	S-N10SX24AC	£15.00	Call	Call
3.5kW	400V	57390	S-N18SX24ACAC	£20.00	Call	Call
5kW	400V	57390	S-N18SX24ACAC	£20.00	Call	Call
7kW	400V	52591	S-N20SX24ACAC	£27.00	Call	Call

230V AC Contactors

Amplifier		230V AC Contactor				
Power	Voltage	SAP No	Catalogue No.	Price	Discount	Nett Price
100W	200V	52569	S-N10SX230AC	£15.00	Call	Call
200W	200V	52569	S-N10SX230AC	£15.00	Call	Call
400W	200V	52569	S-N10SX230AC	£15.00	Call	Call
750W	200V	52569	S-N10SX230AC	£15.00	Call	Call
600W	400V	52569	S-N10SX230AC	£15.00	Call	Call
1kW	400V	52569	S-N10SX230AC	£15.00	Call	Call
2kW	400V	52569	S-N10SX230AC	£15.00	Call	Call
3.5kW	400V	57393	S-N18SX230ACAC	£20.00	Call	Call
5kW	400V	57393	S-N18SX230ACAC	£20.00	Call	Call
7kW	400V	52594	S-N20SX230ACAC	£27.00	Call	Call

110V AC Contactors

110V AC Contactor				
SAP No	Catalogue No.	Price	Discount	Nett Price
52568	S-N10SX110AC	£15.00	Call	Call
52568	S-N10SX110AC	£15.00	Call	Call
52568	S-N10SX110AC	£15.00	Call	Call
52568	S-N10SX110AC	£15.00	Call	Call
52568	S-N10SX110AC	£15.00	Call	Call
52568	S-N10SX110AC	£15.00	Call	Call
52568	S-N10SX110AC	£15.00	Call	Call
52568	S-N10SX110AC	£15.00	Call	Call
57392	S-N18SX110ACAC	£20.00	Call	Call
57392	S-N18SX110ACAC	£20.00	Call	Call
52593	S-N20SX110ACAC	£27.00	Call	Call

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J2 Super & J3 Series Gearboxes HC-KFS & HF-KP Motors

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
158896	LP070-M1-3-MF40	3:1 ratio gearbox for use with HF-KP / HC-MFS / KFS053/13 motors	£375.00	Call	Call
135071	LP070-M1-3-MF60	3:1 ratio gearbox for use with HF-KP / HC-MFS / KFS23/43 motors	£375.00	Call	Call
158897	LP090-M1-3-MF80	3:1 ratio gearbox for use with HF-KP / HC-MFS / KFS73 motors	£408.00	Call	Call
124429	LP050-M1-5-MF40	5:1 ratio gearbox for use with HF-KP / HC-MFS / KFS053/13 motors	£353.00	Call	Call
124288	LP070-M1-5-MF60	5:1 ratio gearbox for use with HF-KP / HC-MFS / KFS23/43 motors	£375.00	Call	Call
126796	LP090-M1-5-MF80	5:1 ratio gearbox for use with HF-KP / HC-MFS / KFS73 motors	£408.00	Call	Call
102829	LP050-M1-10-MF40	10:1 ratio gearbox for use with HF-KP / HC-MFS / KFS053/13 motors	£353.00	Call	Call
88432	LP070-M1-10-MF60	10:1 ratio gearbox for use with HF-KP / HC-MFS / KFS23 motors	£375.00	Call	Call
128572	LP090-M1-10-MF60	10:1 ratio gearbox for use with HF-KP / HC-MFS / KFS43 motors	£408.00	Call	Call
104668	LP090-M1-10-MF80	10:1 ratio gearbox for use with HF-KP / HC-MFS / KFS73 motors	£408.00	Call	Call
155194	LP070-M2-15-MF40	15:1 ratio gearbox for use with HF-KP / HC-MFS / KFS053/13 motors	£562.00	Call	Call
158898	LP070-M2-15-MF60	15:1 ratio gearbox for use with HF-KP / HC-MFS / KFS23 motors	£562.00	Call	Call
156339	LP090-M2-15-MF60	15:1 ratio gearbox for use with HF-KP / HC-MFS / KFS43 motors	£635.00	Call	Call
158899	LP120-M2-15-MF80	15:1 ratio gearbox for use with HF-KP / HC-MFS / KFS73 motors	£779.00	Call	Call
158901	LP090-M2-15-MF80	15:1 ratio gearbox for use with HF-KP / HC-MFS / KFS73* motors	£635.00	Call	Call
158902	LP070-M2-25-MF40	25:1 ratio gearbox for use with HF-KP / HC-MFS / KFS053/13 motors	£562.00	Call	Call
129687	LP050-M2-25-MF40	25:1 ratio gearbox for use with HF-KP / HC-MFS / KFS053*/13* motors	£528.00	Call	Call
125574	LP090-M2-25-MF60	25:1 ratio gearbox for use with HF-KP / HC-MFS / KFS23 motors	£635.00	Call	Call
124449	LP070-M2-25-MF60	25:1 ratio gearbox for use with HF-KP / HC-MFS / KFS23* motors	£562.00	Call	Call
158903	LP120-M2-25-MF60	25:1 ratio gearbox for use with HF-KP / HC-MFS / KFS43 motors	£779.00	Call	Call
158915	LP120-M2-25-MF80	25:1 ratio gearbox for use with HF-KP / HC-MFS / KFS73 motors	£779.00	Call	Call
158917	LP070-M2-30-MF40	30:1 ratio gearbox for use with HF-KP / HC-MFS / KFS053/13 motors	£562.00	Call	Call
159163	LP090-M2-30-MF60	30:1 ratio gearbox for use with HF-KP / HC-MFS / KFS23 motors	£635.00	Call	Call
137918	LP070-M2-30-MF60	30:1 ratio gearbox for use with HF-KP / HC-MFS / KFS23* motors	£562.00	Call	Call
159164	LP120-M2-30-MF60	30:1 ratio gearbox for use with HF-KP / HC-MFS / KFS43 motors	£779.00	Call	Call
159165	LP120-M2-30-MF80	30:1 ratio gearbox for use with HF-KP / HC-MFS / KFS73* motors	£779.00	Call	Call
159166	LP070-M2-50-MF40	50:1 ratio gearbox for use with HF-KP / HC-MFS / KFS053/13 motors	£562.00	Call	Call
144202	LP050-M2-50-MF40	50:1 ratio gearbox for use with HF-KP / HC-MFS / KFS053* motors	£528.00	Call	Call
124485	LP090-M2-50-MF60	50:1 ratio gearbox for use with HF-KP / HC-MFS / KFS23 motors	£635.00	Call	Call
159167	LP070-M2-50-MF60	50:1 ratio gearbox for use with HF-KP / HC-MFS / KFS23* motors	£562.00	Call	Call
159168	LP120-M2-50-MF60	50:1 ratio gearbox for use with HF-KP / HC-MFS / KFS43 motors	£779.00	Call	Call
159169	LP155-M2-50-MF80	50:1 ratio gearbox for use with HF-KP / HC-MFS / KFS73* motors	£971.00	Call	Call
159170	LP120-M2-50-MF80	50:1 ratio gearbox for use with HF-KP / HC-MFS / KFS73* motors	£779.00	Call	Call
130446	LP070-M2-100-MF40	100:1 ratio gearbox for use with HF-KP / HC-MFS / KFS053* motors	£562.00	Call	Call
159171	LP090-M2-100-MF40	100:1 ratio gearbox for use with HF-KP / HC-MFS / KFS13 motors	£635.00	Call	Call
159173	LP120-M2-100-MF60	100:1 ratio gearbox for use with HF-KP / HC-MFS / KFS23 motors	£779.00	Call	Call
159174	LP090-M2-100-MF60	100:1 ratio gearbox for use with HF-KP / HC-MFS / KFS23* motors	£635.00	Call	Call
159175	LP155-M2-100-MF60	100:1 ratio gearbox for use with HF-KP / HC-MFS / KFS43 motors	£971.00	Call	Call
159176	LP155-M2-100-MF80	100:1 ratio gearbox for use with HF-KP / HC-MFS / KFS73* motors	£971.00	Call	Call
159177	LP120-M2-100-MF80	100:1 ratio gearbox for use with HF-KP / HC-MFS / KFS73* motors	£779.00	Call	Call

* Motor/gearbox combinations where the motor model number is marked with an asterisk must be referred to a motion control engineer with the machines mechanical & dynamic specification to verify the combinations application.

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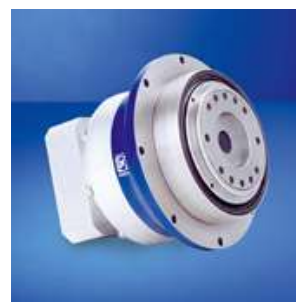
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Tel: 0871 222 9155
Fax: 0871 222 9166



Controls & Drives

Gearboxes

product information



This document contains list prices, for discounts please call your local branch

J2 Super & J3 Series Gearboxes HF-SP & HC-SFS Motors

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
152434	LP120-M1-3-SF130	3:1 ratio gearbox for use with HF-SP / HC-SFS52/102/152 motors	£564.00	Call	Call
126920	LP120-M1-5-SF130	5:1 ratio gearbox for use with HF-SP / HC-SFS52/102/152 motors	£564.00	Call	Call
124662	LP155-M1-5-SF176	5:1 ratio gearbox for use with HF-SP / HC-SFS202/352 motors	£719.00	Call	Call
88138	LP120-M1-10-SF130	10:1 ratio gearbox for use with HF-SP / HC-SFS52/102 motors	£564.00	Call	Call
125206	LP155-M1-10-SF130	10:1 ratio gearbox for use with HF-SP / HC-SFS152 motors	£719.00	Call	Call
113569	LP155-M1-10-SF176	10:1 ratio gearbox for use with HF-SP / HC-SFS202/352* motors	£719.00	Call	Call
159182	LP120-M2-15-SF130	15:1 ratio gearbox for use with HF-SP / HC-SFS52/102*/152* motors	£779.00	Call	Call
126964	LP120-M2-25-SF130	25:1 ratio gearbox for use with HF-SP / HC-SFS52 motors	£779.00	Call	Call
127367	LP155-M2-25-SF130	25:1 ratio gearbox for use with HF-SP / HC-SFS102/152* motors	£971.00	Call	Call
159183	LP120-M2-30-SF130	30:1 ratio gearbox for use with HF-SP / HC-SFS52*/102*/152* motors	£779.00	Call	Call
127335	LP155-M2-50-SF130	50:1 ratio gearbox for use with HF-SP / HC-SFS52/102*/152* motors	£971.00	Call	Call
130505	LP120-M2-50-SF130	50:1 ratio gearbox for use with HF-SP / HC-SFS52* motors	£779.00	Call	Call
130664	LP155-M2-100-SF130	100:1 ratio gearbox for use with HF-SP / HC-SFS52*/102*/152* motors	£971.00	Call	Call
140460	LP120-M2-100-SF130	100:1 ratio gearbox for use with HF-SP / HC-SFS52* motors	£779.00	Call	Call

* Motor/gearbox combinations where the motor model number is marked with an asterisk must be referred to a motion control engineer with the machines mechanical & dynamic specification to verify the combinations application.

Prices shown exclude VAT & are subject to BPX standard terms & conditions of sale

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Tel: 0116 233 9555
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Fax: 0115 942 2240

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