

March 29, 2018

Motor Business Unit,
Electromechanical Control Business Division,
Automotive & Industrial Systems Company,
Panasonic Corporation

Announcement of New product release: **MINAS A6 Family Geared AC Servo Motors**

Thank you for your daily support and efforts to our business.
This is an announcement about Servo motor with Gear reducers compatible with the MINAS A6 Family.
Please consider using these products for your project.

1. Order accepting date: starting from April 10, 2018
2. Product features
 - Reduction gears are compatible with MINAS A6 Family AC Servo motors
Rated rotational speed 3000 r/min,
Max. rotational speed 6500 r/min (MHMF series 750 W only 6000 r/min),
Momentary Max. peak torque 350%
 - Compatibility with previous products (MSME series, MSMD series, MHMD series) is maintained
The gear attachment dimensions and gear frame size are the same as previous products
Equivalent to protection class IP44 (gear reducer portion)
 - Compatible with the following series of MINAS A6 Family drivers
Pulse control and analog control driver: A6 SE series, A6 SF series, A6 SG series (special order products)
High-speed network driver - compatible with Realtime Express (RTEX) driver: A6 NE series, A6 NF series,
EtherCAT compatible driver: A6 BE series (special order products), A6 BF series (special order products)
3. Output range
 - MQMF series 100 W, 200 W, 400 W
 - MHMF series 100 W, 200 W, 400 W, 750 W
 - Two types of connectors and lead wires are available
4. Gear reduction ratio
 - Four types: 1/5, 1/9, 1/15, 1/25
 - * Gear reducer ratio 1/25 is not available for MHMF series 100 W and 400 W motors.
5. Model numbers, prices, and order format
 - "MINAS A6 Series Geared AC Servo motors model listing" (MQMF series, MHMF series)
 - Refer to Page 3 onwards.
 - For the prices, please send RFQ (request for quote) to our sales representatives.
6. External dimensions and specifications
 - Refer to the information on our website on the MINAS A6 Family catalog.
https://www3.panasonic.biz/ac/e_download/motor/fa-motor/ac-servo/catalog/minas-a6_ctlg_e.pdf?f_cd=403107

7. Appearance



MQMF Series Output: 200 W
Connector type Servo motor with Gear reducer



MHMF Series Output: 750 W
Lead wire type Servo motor with Gear reducer

■MINAS A6 Series Geared AC Servo Motor Model Listing

[MQMF] Connector type JN11 Output shaft shape (with a key-way and center tap)

Model number	Output (W)	Voltage (V)	Gear reduction ratio	Holding brake
MQMF011L31N	100	100	1/5	No
MQMF011L32N	100	100	1/9	
MQMF011L33N	100	100	1/15	
MQMF011L34N	100	100	1/25	
MQMF011L41N	100	100	1/5	Yes
MQMF011L42N	100	100	1/9	
MQMF011L43N	100	100	1/15	
MQMF011L44N	100	100	1/25	
MQMF012L31N	100	200	1/5	No
MQMF012L32N	100	200	1/9	
MQMF012L33N	100	200	1/15	
MQMF012L34N	100	200	1/25	
MQMF012L41N	100	200	1/5	Yes
MQMF012L42N	100	200	1/9	
MQMF012L43N	100	200	1/15	
MQMF012L44N	100	200	1/25	
MQMF021L31N	200	100	1/5	No
MQMF021L32N	200	100	1/9	
MQMF021L33N	200	100	1/15	
MQMF021L34N	200	100	1/25	
MQMF021L41N	200	100	1/5	Yes
MQMF021L42N	200	100	1/9	
MQMF021L43N	200	100	1/15	
MQMF021L44N	200	100	1/25	
MQMF022L31N	200	200	1/5	No
MQMF022L32N	200	200	1/9	
MQMF022L33N	200	200	1/15	
MQMF022L34N	200	200	1/25	

[MQMF] Connector type JN11 Output shaft shape (with a key-way and center tap)

Model number	Output (W)	Voltage (V)	Gear reduction ratio	Holding brake
MQMF022L41N	200	200	1/5	Yes
MQMF022L42N	200	200	1/9	
MQMF022L43N	200	200	1/15	
MQMF022L44N	200	200	1/25	
MQMF041L31N	400	100	1/5	No
MQMF041L32N	400	100	1/9	
MQMF041L33N	400	100	1/15	
MQMF041L34N	400	100	1/25	
MQMF041L41N	400	100	1/5	Yes
MQMF041L42N	400	100	1/9	
MQMF041L43N	400	100	1/15	
MQMF041L44N	400	100	1/25	
MQMF042L31N	400	200	1/5	No
MQMF042L32N	400	200	1/9	
MQMF042L33N	400	200	1/15	
MQMF042L34N	400	200	1/25	
MQMF042L41N	400	200	1/5	Yes
MQMF042L42N	400	200	1/9	
MQMF042L43N	400	200	1/15	
MQMF042L44N	400	200	1/25	

[MQMF] Lead wire type Output shaft shape (with a key-way and center tap)

Model number	Output (W)	Voltage (V)	Gear reduction ratio	Holding brake
MQMF011L71N	100	100	1/5	No
MQMF011L72N	100	100	1/9	
MQMF011L73N	100	100	1/15	
MQMF011L74N	100	100	1/25	
MQMF011L81N	100	100	1/5	Yes
MQMF011L82N	100	100	1/9	
MQMF011L83N	100	100	1/15	
MQMF011L84N	100	100	1/25	
MQMF012L71N	100	200	1/5	No
MQMF012L72N	100	200	1/9	
MQMF012L73N	100	200	1/15	
MQMF012L74N	100	200	1/25	
MQMF012L81N	100	200	1/5	Yes
MQMF012L82N	100	200	1/9	
MQMF012L83N	100	200	1/15	
MQMF012L84N	100	200	1/25	
MQMF021L71N	200	100	1/5	No
MQMF021L72N	200	100	1/9	
MQMF021L73N	200	100	1/15	
MQMF021L74N	200	100	1/25	
MQMF021L81N	200	100	1/5	Yes
MQMF021L82N	200	100	1/9	
MQMF021L83N	200	100	1/15	
MQMF021L84N	200	100	1/25	
MQMF022L71N	200	200	1/5	No
MQMF022L72N	200	200	1/9	
MQMF022L73N	200	200	1/15	
MQMF022L74N	200	200	1/25	

[MQMF] Lead wire type Output shaft shape (with a key-way and center tap)

Model number	Output (W)	Voltage (V)	Gear reduction ratio	Holding brake
MQMF022L81N	200	200	1/5	Yes
MQMF022L82N	200	200	1/9	
MQMF022L83N	200	200	1/15	
MQMF022L84N	200	200	1/25	
MQMF041L71N	400	100	1/5	No
MQMF041L72N	400	100	1/9	
MQMF041L73N	400	100	1/15	
MQMF041L74N	400	100	1/25	
MQMF041L81N	400	100	1/5	Yes
MQMF041L82N	400	100	1/9	
MQMF041L83N	400	100	1/15	
MQMF041L84N	400	100	1/25	
MQMF042L71N	400	200	1/5	No
MQMF042L72N	400	200	1/9	
MQMF042L73N	400	200	1/15	
MQMF042L74N	400	200	1/25	
MQMF042L81N	400	200	1/5	Yes
MQMF042L82N	400	200	1/9	
MQMF042L83N	400	200	1/15	
MQMF042L84N	400	200	1/25	

[MHMF] Connector type JN11 Output shaft shape (with a key-way and center tap)

Model number	Output (W)	Voltage (V)	Gear reduction ratio	Holding brake
MHMF011L31N	100	100	1/5	No
MHMF011L32N	100	100	1/9	
MHMF011L33N	100	100	1/15	
MHMF011L41N	100	100	1/5	Yes
MHMF011L42N	100	100	1/9	
MHMF011L43N	100	100	1/15	
MHMF012L31N	100	200	1/5	No
MHMF012L32N	100	200	1/9	
MHMF012L33N	100	200	1/15	
MHMF012L41N	100	200	1/5	Yes
MHMF012L42N	100	200	1/9	
MHMF012L43N	100	200	1/15	
MHMF021L31N	200	100	1/5	No
MHMF021L32N	200	100	1/9	
MHMF021L33N	200	100	1/15	
MHMF021L34N	200	100	1/25	
MHMF021L41N	200	100	1/5	Yes
MHMF021L42N	200	100	1/9	
MHMF021L43N	200	100	1/15	
MHMF021L44N	200	100	1/25	
MHMF022L31N	200	200	1/5	No
MHMF022L32N	200	200	1/9	
MHMF022L33N	200	200	1/15	
MHMF022L34N	200	200	1/25	
MHMF022L41N	200	200	1/5	Yes
MHMF022L42N	200	200	1/9	
MHMF022L43N	200	200	1/15	
MHMF022L44N	200	200	1/25	

[MHMF] Connector type JN11 Output shaft shape (with a key-way and center tap)

Model number	Output (W)	Voltage (V)	Gear reduction ratio	Holding brake
MHMF041L31N	400	100	1/5	No
MHMF041L32N	400	100	1/9	
MHMF041L33N	400	100	1/15	
MHMF041L41N	400	100	1/5	Yes
MHMF041L42N	400	100	1/9	
MHMF041L43N	400	100	1/15	
MHMF042L31N	400	200	1/5	No
MHMF042L32N	400	200	1/9	
MHMF042L33N	400	200	1/15	
MHMF042L41N	400	200	1/5	Yes
MHMF042L42N	400	200	1/9	
MHMF042L43N	400	200	1/15	
MHMF082L31N	750	200	1/5	No
MHMF082L32N	750	200	1/9	
MHMF082L33N	750	200	1/15	
MHMF082L34N	750	200	1/25	
MHMF082L41N	750	200	1/5	Yes
MHMF082L42N	750	200	1/9	
MHMF082L43N	750	200	1/15	
MHMF082L44N	750	200	1/25	

[MHMF] Lead wire type Output shaft shape (with a key-way and center tap)

Model number	Output (W)	Voltage (V)	Gear reduction ratio	Holding brake
MHMF011L71N	100	100	1/5	No
MHMF011L72N	100	100	1/9	
MHMF011L73N	100	100	1/15	
MHMF011L81N	100	100	1/5	Yes
MHMF011L82N	100	100	1/9	
MHMF011L83N	100	100	1/15	
MHMF012L71N	100	200	1/5	No
MHMF012L72N	100	200	1/9	
MHMF012L73N	100	200	1/15	
MHMF012L81N	100	200	1/5	Yes
MHMF012L82N	100	200	1/9	
MHMF012L83N	100	200	1/15	
MHMF021L71N	200	100	1/5	No
MHMF021L72N	200	100	1/9	
MHMF021L73N	200	100	1/15	
MHMF021L74N	200	100	1/25	
MHMF021L81N	200	100	1/5	Yes
MHMF021L82N	200	100	1/9	
MHMF021L83N	200	100	1/15	
MHMF021L84N	200	100	1/25	
MHMF022L71N	200	200	1/5	No
MHMF022L72N	200	200	1/9	
MHMF022L73N	200	200	1/15	
MHMF022L74N	200	200	1/25	
MHMF022L81N	200	200	1/5	Yes
MHMF022L82N	200	200	1/9	
MHMF022L83N	200	200	1/15	
MHMF022L84N	200	200	1/25	

[MHMF] Lead wire type Output shaft shape (with a key-way and center tap)

Model number	Output (W)	Voltage (V)	Gear reduction ratio	Holding brake
MHMF041L71N	400	100	1/5	No
MHMF041L72N	400	100	1/9	
MHMF041L73N	400	100	1/15	
MHMF041L81N	400	100	1/5	Yes
MHMF041L82N	400	100	1/9	
MHMF041L83N	400	100	1/15	
MHMF042L71N	400	200	1/5	No
MHMF042L72N	400	200	1/9	
MHMF042L73N	400	200	1/15	
MHMF042L81N	400	200	1/5	Yes
MHMF042L82N	400	200	1/9	
MHMF042L83N	400	200	1/15	
MHMF082L71N	750	200	1/5	No
MHMF082L72N	750	200	1/9	
MHMF082L73N	750	200	1/15	
MHMF082L74N	750	200	1/25	
MHMF082L81N	750	200	1/5	Yes
MHMF082L82N	750	200	1/9	
MHMF082L83N	750	200	1/15	
MHMF082L84N	750	200	1/25	

end