Driver Specification for Linear Motor Drive Tables

MR-J4

Specification of MR-J4, a driver for NT38V

- Low-voltage (DC24V) specification and compact design of 100×90×30 mm. It contributes to miniaturization of devices and compactness.
- Servo gain adjustment, including machine resonance suppression filter, advanced vibration control II, and robust filter, can be completed simply by turning on the onetouch tuning function. Easy driving of the cutting-edge vibration suppression function allows the machine to produce its best performance.
- Machine diagnosis, startup and adjustment of the linear motor can be easily performed thanks to parameter settings, monitor display and machine analyzer of the setup software (MR Configurator2).

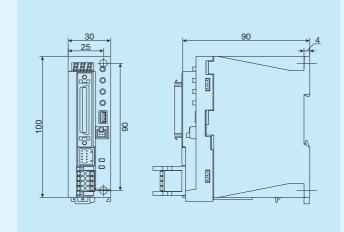


Table 1 Specifications for MR-J4

Identification Number		MR-J4-03A6-NL156J154/ MR-J4-03A6-NL156J155
Output	Rated voltage	Three-phase AC13V
Output	Rated current	2.4A
Martin strendt	Voltage	DC24V
Main circuit power	Rated current	2.4A
supply input	Allowable power fluctuation	DC21.6V to 26.4V
	Voltage	DC24V
Orantard	Rated current	0.2A
Control circuit power supply input	Allowable power fluctuation	DC21.6V to 26.4V
Supply input	Power consumption	5.0W
Power supply	for interface	DC24V ±10% (required current capacity: 0.3 A)
Control metho	d	Sine wave PWM control/current control method
	erative power for servo regenerative resistor	0.7W
Dynamic brake)	Built-in
Communication function		USB: connection with personal computer, etc. (MR Configurator2 supported)
Encoder outpu	it pulse	Supported (ABZ-phase pulse)
Analog monito	r	2-channel
Position	Maximum input pulse frequency	4 Mpulses/s (with differential receiver), 200 kpulses/s (with open collector)
control mode	Command pulse magnification	Electronic gears A/Bx A = 1 to 1.6777215, B = 1 to 16777215, 1/10 < A/B < 4000
mode	Positioning complete width setting	0 pulses to ± 65535 pulses (command pulse unit)
Positioning mode		Point table method
Protective function		Overcurrent interrupt, regeneration overvoltage interrupt, overloading interrupt (electric thermal), servomotor overheat protection, encoder error protection, regeneration error protection, undervoltage protection, momentary power failure protection, overspeed protection, excessive error protection, magnetic pole detection protection, linear servo control error protection
Compliant overseas	CE marking	LVD:EN 61800-5-1/EN 60959-1 EMC:EN 61800-3
standards	UL standard	UL 508C (NMM S2)
Structure (protection degree)		Natural air cooling and opening (IP20)
Environmental conditions	Ambient temperature	Operation: 0 to 55°C (keep freeze free), Storage: -20 to 65°C (keep freeze free)
	Ambient humidity	Operation/storage: 5% to 90% RH or lower (keep condensation free)
	Atmosphere	Indoors (no exposure to direct sunlight) Must be free from corrosive gas, flammable gas, oil mist and dust
	Altitude	1,000 m or lower
	Vibration resistance	5.9 m/s² or less, 10 Hz to 55 Hz (X, Y, Z directions)
Mass		0.2 kg

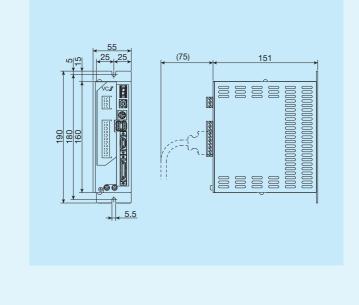
NCR

Specification of NCR, a driver for NT...H

- The driver and positioning unit are integrated, and the system is miniaturized with its wiring streamlined.
- Higher reliability and usability such as driftless, elimination of adjustment fluctuation, improvement of man-machine interface have been pursued with digital control.
- Easy positioning operation and pulse train operation are supported by mode selection, for applications to wide range of usages.
- Torque control and speed control are available.
- Control suitable for machine rigidity is made possible by full-scale software servo functions such as linear / S-curve acceleration and deceleration, feed forward, torque command filter, gain switching at shutdown and low speed, disturbance compensation control, etc.
- Peripheral devices such as touch panel, higher-level controller, etc. can be connected via serial communication.
- Dedicated editing software can be connected via USB 2.0 (full speed).

Table 2 Specifications for NCR

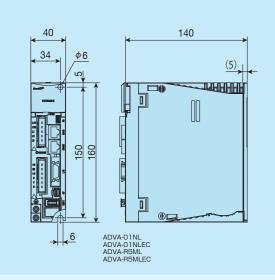
Table 2 Specifications for NCR				
Identification Number			NCR-DDA0A1A-051D-T08	
Item				
		rated current	1.1 Arms	
		entary current	3.3 Arms	
Basic	· · · ·	nt capacity	0.15kVA	
specification	Input power (main circuit and control circuit)		Single-phase AC100~115V (allowable power fluctuation AC90~121V) 50/60Hz ±5%	
	Control me		Three-phase sine wave PWM method	
	Control mo	pde	Position (position control data / pulse train)	
		Pulse train command	Line driver system is supported The maximum input frequency is indicated below (1) Pulse with 90-degree phase difference: 4Mpps (16Mpps after 4-time multiplication) (2) Directional pulse: 4Mpps (3) Directional + shift pulse: 4 Mpps	
	Command	Speed control operation	Analog speed command and internal speed command (3 points)	
	input	Torque control operation	Analog torque command and internal torque command (3 points)	
		Easy positioning operation	3 positioning modes: Manual mode / Return to origin mode / Easy positioning mode	
Input/ Output function	Contact input signal		[8 basic input signal points (initial value)] Servo on, reset, command pulse input prohibition, mode selection 1, mode selection 2, startup, speed selection, torque selection <following are="" assigning="" by="" control="" input="" or="" remote="" signals="" used=""> Emergency stop, proportional control, address specification, speed override, deviation clear, torque limit, forward direction overtravel, reverse direction overtravel, etc.</following>	
	Contact output signal		[4 basic output signal points (initial value)] Servo ready, alarm, warning, positioning complete <following are="" assigning="" by="" control="" or="" output="" remote="" signals="" used=""> Torque limit, speed zero, in speed operation mode, in torque operation mode, in easy positioning mode, in pulse train operation mode, encoder marker, etc.</following>	
	Encoder feedback pulse output		Pulse train output with 90-degree phase difference (frequency dividing output allowed. The maximum output frequency of 2 signals of A / B phase is 20Mpps after 4-time multiplication)	
	Encoder feedback pulse input		Pulse train input with 90-degree phase difference (The maximum input frequency of 2 signals of A / B phase is 20Mpps after 4-time multiplication)	
	Monitor output		 (1) Analog monitor: 2 points (2 points selected by parameters from various motion status can be monitored.) (2) Various types of monitoring is possible with USB-ready dedicated editing software. 	
Internal function	Protective function		IPM failure, overvoltage, undervoltage, overspeed, overload, regeneration resistance overload, deviation overflow, communication failure, data error, CPU failure, encoder failure, automatic magnetic pole detection failure, absolute encoder failure, etc.	
	Communication function		Various data can be transmitted / received via serial communication (RS-422A). Dedicated editing software can be connected via USB 2.0 (full speed)	
	Ambient temperature in operation / Storage temperature		0 to 55°C / -20 to 66°C	
Operating environment	Operating humidity		85%RH or lower (keep condensation free)	
environment	Vibration resistance		0.5G 10~55Hz	
Service space		ace	Altitude of 1000 m or below, indoor (no corrosive gas and dust)	
Mass			1.0kg	
			H 070	



ADVA

Specifications for ADVA

- Applicable model numbers
- NT series: NT55V, NT80V, NT88H, NT...XZ, NT...XZH SA series: all model numbers LT series: all model numbers
- In addition to the conventional pulse train command input, high speed motion network EtherCAT is also supported.
- 10 input terminals, 6 output terminals, and analog input (0 to ± 10 V) can be controlled by intelligent terminals.
- The high controllability shortens the settling time, realizing further improvement of productivity.
- Machine diagnosis, startup and adjustment of linear motor can be easily performed thanks to parameter settings, monitor display, operation trace and automatic tuning function of the setup software.



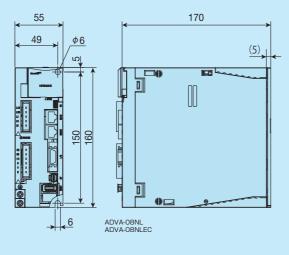


Table 3 Specifications for ADVA

Identification number ADVA-01NL ADVA-08NL ADVA-R5ML ADVA-01NLEC ADVA-08NLEC ADVA-R5MLEC ADVA-R5MLEC Input power Single-phase / Three-phase AC 200 to 230 V Single-phase AC100 to 115V 50 / 60Hz Single-phase / Three-phase AC 200 to 230 V Single-phase AC100 to 115V 50 / 60Hz 50 / 60Hz Rated current / 1.2Arms / 3.6Arms 5.1Arms / 15.3Arms 1.2Arms / 3.6Arms Power plant capacity 0.3kVA 0.3kVA 0.3kVA Protective structure () Power plant capacity 0.3kVA 0.3kVA Protective structure () Position control Thrust force control Charact input / 0 Position command Analog input: 0 to ±10 V / Maximum speed (gain configurable) or EtherCAT Position command Contact input / 0 Open collector signal: 2 Mpps (non-isolated input / after 4-time multiplication) or EtherCAT Input put Input put Input put Input terminal selects 6 output terminal (6 input terminal for EtherCAT specification function by parameter (Open collector signal input (with internal DC24 V power supply) Input put Input put Input put Input put Inp	Tabl	Table 3 Specifications for ADVA					
Input power Single-phase / Three-phase AC 200 to 230 V 50 / 60Hz Single-phase AC100 to 115V 50 / 60Hz Rated current/ momentary current 1.2Arms / 3.6Arms 5.1Arms / 15.3Arms 1.2Arms / 3.6Arms Power plant capacity 0.3kVA 1.3kVA 0.3kVA Protective structure () Semi-enclosed IP20 0.3kVA Control mode Position control / Speed control / Thrust force control EtherCAT Position command Analog input: 0 to ±10 V / Maximum speed (gain configurable) or EtherCAT Position command Une driver signal: 20 Mpps (non-isolated input / after 4-time multiplication) Open collector signal or EtherCAT Notation potential Une driver signal: 20 Mpps (non-isolated input / after 4-time multiplication) Open collector signal / Open collector signal input (with internal DC24 V power supply) EtherCAT Uput [Input] Intelligent terminal selects 10 input terminal for EtherCAT specification) function by parameter (Open collector signal output: sink output) [Output] Intelligent terminal selects 6 output terminal for EtherCAT specification) function by parameter (Den collector signal output: sink output) [Output] Intelligent terminal selects 10 input terminal for EtherCAT specification) function by parameter (Den collector signal output: sink output) [Output] Intelligent terminal selects 6 output terminal for EtherCAT specification) function by parameter (Den collecto		Identification number	ADVA-01NL	ADVA-08NL	ADVA-R5ML		
Input power 50 / 60Hz 50 / 60Hz Rated current / momentary current power plant capacity 1.2Arms / 3.6Arms 1.2Arms / 3.6Arms Power plant capacity 0.3kVA 1.3kVA 0.3kVA Protective structure () Semi-enclosed IP20 0.3kVA Control mode Position control / Speed control / Thrust force control Speed control / Thrust force control Speed command Analog input: 0 to ±10 V / Maximum thrust force (gain configurable) or EtherCAT EtherCAT Thrust force command Analog input: 0 to ±10 V / Maximum thrust force (gain configurable) or EtherCAT EtherCAT Position command Line driver signal: 20 Mps (non-isolated input / after 4-time multiplication) or EtherCAT EtherCAT Open collector signal: 20 Mps (non-isolated input / after 4-time multiplication) or EtherCAT [Input] Intelligent terminal selects 10 input terminal for EtherCAT specification infunction by parameter (DC12 / 24 V Contact signal / Open collector signal output wink internal DC24 V power supply) [Output] Pulse train command specification: Five digit numeric display, pIP switch (Modbus communication setting) External operator Pulse train command specification: 2-digit numeric display, pIP switch (node address setting for EtherCAT) External operator Windows 7/8 (32-bit, 64-bit) PC can be connected (USB 2.0 full speed)<	Item	1			ADVA-R5MLEC		
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Speed command Analog input: 0 to ±10 V / Maximum speed (gain configurable) or EtherCAT Thrust force command Analog input: 0 to ±10 V / Maximum thrust force (gain configurable) or EtherCAT Position command Line driver signal: 20 Mpps (non-isolated input / after 4-time multiplication) or EtherCAT Position command Une driver signal: 20 Mpps (isolated input / after 4-time multiplication) or EtherCAT Contact input / output [Input] Intelligent terminal selects 10 input terminal (6 input terminal for EtherCAT specification) function by parameter DC12 / 24 V Contact signal / Open collector signal input (with internal DC24 V power supply) [Output] Intelligent terminal selects 6 output terminal (6 uotput terminal for EtherCAT specification) function by parameter (Open collector signal output: sink output) Pulse train command specification: Five digit numeric display, five key push button / DIP switch (Modbus communication setting) External operator Pulse train command specification: 2-digit numeric display, five key push button / DIP switch (Modbus communication setting) External operator Windows 7/8 (32-bit, 64-bit) PC can be connected (USB 2.0 full speed) Portective Built-in (motor condition configurable) Overcurrent, overload, braking resistor overload, amin circuit overvoltage, memory error, main circuit under voltage, CT failure, CPU error 1, external trip (motor temperature error), servo ON ground detection, control circuit under voltage,	atio						
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Built-in operator Pulse train command specification: Five digt numeric display, five key push button / DIP switch (Modbus communication setting) External operator External operator Windows 7/8 (32-bit, 64-bit) PC can be connected (USB 2.0 full speed) Regenerative braking circuit Built-in Built-in Dynamic brake (?) Overcurrent, overload, braking resistor overload, main circuit overvoltage, memory error, main circuit under voltage, CT failure, CPU error 1, external trip (motor temperature error, serve ON ground detection, control circuit under voltage, serve amplifier temperature error, drive prohibition error, power module failure, safety circuit failure, emergency shutdown, encoder failure, mismatch error, power reactivation error, overspeed error, momentary power failure, main circuit power supply failure, drive range error (network communication error, DC synchronization error, under voltage display) Antient temperature in operator/ Storage temperature (?) Oversume (4) 20 to 90% RH (keep condensation free) Vibration resistance (4) Vibration resistance (4) Service space Altitude of 1000 m or below, indoor (no corrosive gas and dust)	ut/C	Thrust force command	Analog input: 0 to ±10 V / Maximum thrust force (gain configurable) or EtherCAT				
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Indiction request, magnetic pole position estimation end, magnetic pole position estimation not executed, position deviation end, speed deviation end, end, speed deviation end, speed deviation end, end, speed deviation end, end, speed deviation end, speed deviation end, end, speed deviation end, end, speed deviation end, end, speed deviation end, speed deviation end, end, end, end, end, end, end, end	=	External exerctor (USD 0.0 full excert)			SB 2.0 full speed)		
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Mass 0.7kg 1.2kg 0.7kg		function	Overcurrent, overload, braking resistor overload, main circuit overvoltage, memory error, main circuit under voltage, CT failure, CPU error 1, external trip (motor temperature error), servo ON ground detection, control circuit under voltage, servo amplifier temperature error, drive prohibition error, power module failure, safety circuit failure, emergency shutdown, encoder failure, mismatch error, power reactivation request, magnetic pole position estimation error, magnetic pole position estimation not executed, position deviation error, speed deviation error, overspeed error, momentary power failure, main circuit power supply failure, drive range error				
Mass 0.7kg 1.2kg 0.7kg	Operating	Storage temperature (3)					
Mass 0.7kg 1.2kg 0.7kg	envi						
Mass 0.7kg 1.2kg 0.7kg	nun						
				1.2kg	0.7kg		

Notes⁽¹⁾ Protection method is compliant with JEM1030.

⁽²⁾ Use the dynamic brake for emergency stop

(³) The storage temperature is the temperature during transportation.

(4) Compliant with JIS C60068-2-6:2010.

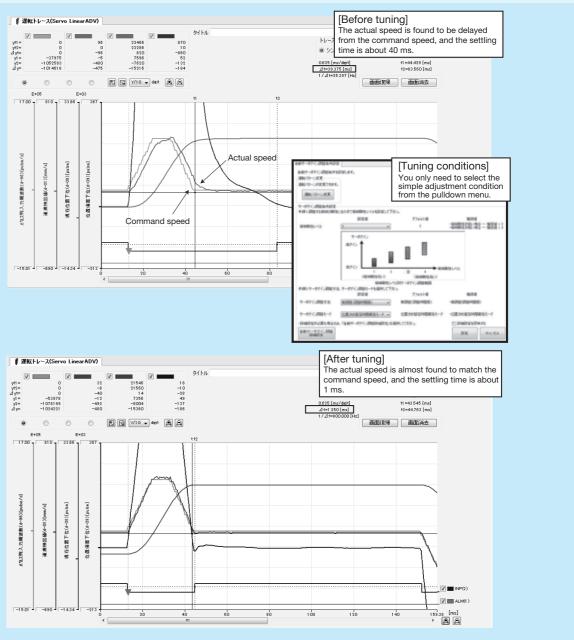
Setup software

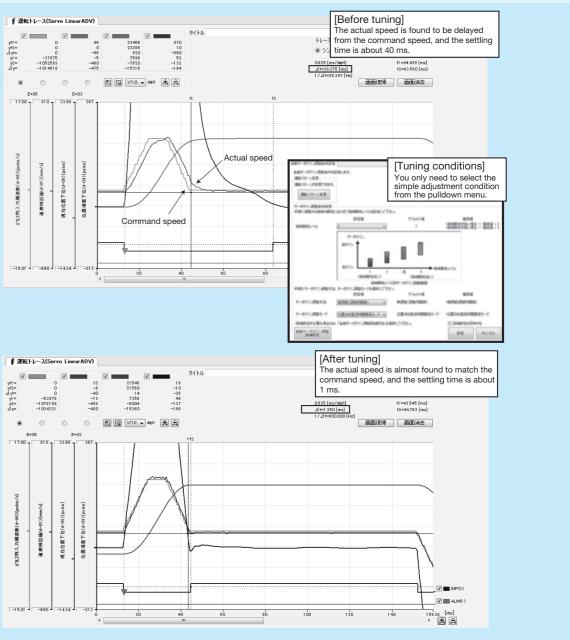
- Used for setting, referencing, changing, printing and saving driver parameters.
- Allows for real-time monitoring of operational status and output status.
- Indicates speed and current, etc. on charts.
- Supports commissioning and gain tuning.

Automatic tuning function

By using the automatic tuning function of the setup software for ADVA, non-expert users can easily perform high-accuracy gain adjustment.

- <Operating conditions>
- Main body: NT55V25/05R + ADVA-01NL/NT55V25
- Acceleration/deceleration time: 12ms





Item	Operating conditions	
PC	CPU: Pentium 4 1.8 GHz or higher HDD free space: 1 GB or more Display resolution: 1024x768 or higher recommended	
OS	Windows Vista 32-bit SP1 Windows 7 (32-bit, 64-bit) Windows 8 (32-bit, 64-bit)	
Remark: Windows [®] is a registered trademark of Microsoft Corporation in USA and other countries. Pentium is a registered trademark of Intel Corporation in USA and other countries.		

Carrying mass: 200g Speed: 500mm/s Positioning complete width: $\pm 5\mu$ m Traveling distance: 10mm

MR-J4

Specifications for MR-J4

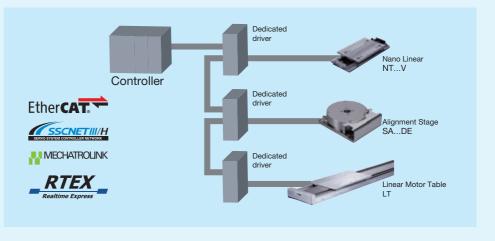
- Applicable model numbers NT series: NT55V, NT80V SA series: all model numbers
- Supports SSCNET II/H (high-speed serial bus). Higher speed and accuracy are realized by optical communication system.
- Servo gain adjustment, including machine resonance suppression filter, advanced vibration control II, and robust filter, can be completed simply by turning on the one-touch tuning function. Easy driving of the cuttingedge vibration suppression function allows the machine to produce its best performance.
- Machine diagnosis, startup and adjustment of linear motor can be easily performed thanks to parameter settings, monitor display and machine analyzer of the setup software (MR Configurator2).

Table 5 Specifications for MR-J4

Identification Number		tification Number	MR-J4-10B-RJ	
Item			TI 404701/	
	Output	Rated voltage	Three-phase AC170V	
		Rated current	1.1A	
	Main circuit power supply	Voltage / Frequency	Single-phase / Three-phase AC200-240V 50/60Hz	
		Allowable power fluctuation	Single-phase / Three-phase AC170-264V	
		Allowable frequency fluctuation	Within ± 5%	
Basic	Control circuit power supply	Voltage / Frequency	Single-phase AC200-240V 50/60Hz	
specification		Allowable power fluctuation	Single-phase AC170-264V	
		Allowable frequency fluctuation	Within ± 5%	
		Power consumption	30W	
-	Power supply	y for interface	DC24V \pm 10% (required current capacity: 0.3A (includes CN8 connector signal))	
	Structure (protection class)		Natural air cooling and opening (IP20)	
	Control method		Sine wave PWM control/current control method	
	Machine end encoder interface		Mitsubishi high-speed serial communication / ABZ-phase differential input signal	
Input/Output	Encoder outp	out pulse	Supported (ABZ-phase pulse)	
function	Analog monitor		2ch	
	Communication function		USB: connection with personal computer, etc. (MR Configurator2 supported)	
	Dynamic brake		Built-in	
Internal function	Protective function		Overcurrent interrupt, regeneration overvoltage interrupt, overloading interrupt (electric thermal), servomotor overheat protection, encoder error protection, regeneration error protection, undervoltage protection, momentary power failure protection, overspeed protection, excessive error protection, magnetic pole detection protection, linear servo control error protection	
Operating environment	Ambient temperature		0 to 55° C (keep freeze free), Storage: 20 to 65° C (keep freeze free)	
	Ambient humidity		90%RH or lower (keep condensation free), Storage: 90%RH or lower (keep condensation free)	
	Atmosphere		Indoor (no exposure to direct sun light), must be free from corrosive gas, flammable gas, oil mist and dust	
	Altitude		1 000m or lower	
	Vibration resistance		5.9m/s ² or less, 10Hz to 55Hz (X, Y, Z directions)	
Mass			0.8kg	

Motion Network

Drivers for linear motor drive tables include those supporting motion networks EtherCAT, SSCNET II/H, MECHATROLINK, and RTEX. Motion networks realize higher performance and higher accuracy of devices free from pulse frequency constraint in pulse train command, noise effects in analog command (voltage command), voltage drop due to cable length and effects of temperature drifting. Reduction of wiring can also be achieved, so a synchronization system with more than one table can easily be established.



Model	
EtherCAT	This is an Ethernet-based open net allowing the real time control. High sp realize the higher performance and on the market can be used and vario
SSCNET II/H	This is a motion network community Electric Corporation. It applies the conventional SSCNET.
MECHATROLINK	The open field network communic Developed by Yaskawa Electric Corp
RTEX	RTEX (Realtime Express) is an advar in order to deliver the high real time communication (100Mbps), and sup costs.

Features

twork communication system developed by Beckhoff of Germany, speed communication and high accuracy inter-node synchronization I higher accuracy of devices. In addition, Ethernet cables available ous wiring types can be supported.

ication system for servo system control developed by Mitsubishi e optical fiber cables, so noise immunity is improved relative to

ication that connects the controller and various components. poration and managed by MECHATROLINK Members Association.

anced network developed independently by Panasonic Corporation, ne performance required for servos. It offers extremely high-speed upports commercially available LAN cables to help reduce system