



APD-VK Series Ratings and Characteristics

Model (APD-VK)		VKR5N	VK01N	VK02N	VK04N	VK08N
Power supply (★Note)		Single phase AC200-230[V] +10%-15%, 50/60[Hz]				
Applicable Motor	Voltage Type	3 phase sine wave PWM driven AC Servo Motor				
	Rated Current [A]	1.2	1.65	1.65	2.9	3.9
	Max. Current[A]	3.6	4.95	4.95	8.7	11.7
Encoder Type		Standard : Incremental 5V, Line Driver, 15Pin, 2500[P/R] (but, SA Series motor is Incremental 5V, Line Driver, 15Pin, 2048[P/R]) Option : Incremental 5V, Line Driver, 9Pin, 2500[P/R] (but, SA Series motor is Incremental 5V, Line Driver, 9Pin, 2048[P/R])				
Position control Type	Input Frequency	Line Driver 500[kpps], Open collector 200[kpps]				
	Input Pulse Type	A+B Phase, Forward/reverse Pulse, Direction +Pulse[Line Driver, Open Collector]				
	Input Pulse	5[V] Line Driver, 24[V] Open Collector				
Speed Control Type	Range of Speed Control	1:10,000				
	Accel/Decel Time	Linear or "s" shape Accel/Decel, 0-10,000[ms], 1[ms] Units can be set separately				
	Inside command Speed	DC -10[V]~+10[V] (CCW in (-) voltage), 3 Different Speed Setting				
Setting	Communication	Standard : RS232c, Option : RS485 Max. 16 Axis				
	Option	Handy Loader, Touch Loader				
Embedded Function	Generative Braking	Standard Embedded[Operated at Servo Alarm or Servo OFF]				
	Regenerative Braking	Option			Standard	
	Electronic Gear Ratio	99,999/99,999 Times of Command Pulse is Possible				
	Feedback Pulse Dividing	From 1 to 16, Selecting Division is possible / Line driver A/B/Z Phase, Open Collector Z Phase Output				
	Contacts Logic	Selecting A/B contact(Input/Output Contacts) function				
Monitor	Digital Display	Built in 7 - Segments (1 Digits)				
	Analog Output	DC 5[V] ~ +5[V], 2 Channels [Speed, Torque, etc]				
Protect Function	Items Displayed	Over current, Overload, Overvoltage, Voltage shortage, Over speed, Wrong wiring, Encoder problem, position following problem				
	Memory Capacity	Can save memory The alarm upto 20 times including the current alarm occurred				
Ambient Environment	Temperature	0~50[°C]				
	Humidity	Less than 90[%] (Avoid Condensation)				
	Atmosphere	Indoor, No corrosive gas, Inflammable gas and fluid, Oil mist, or dust				

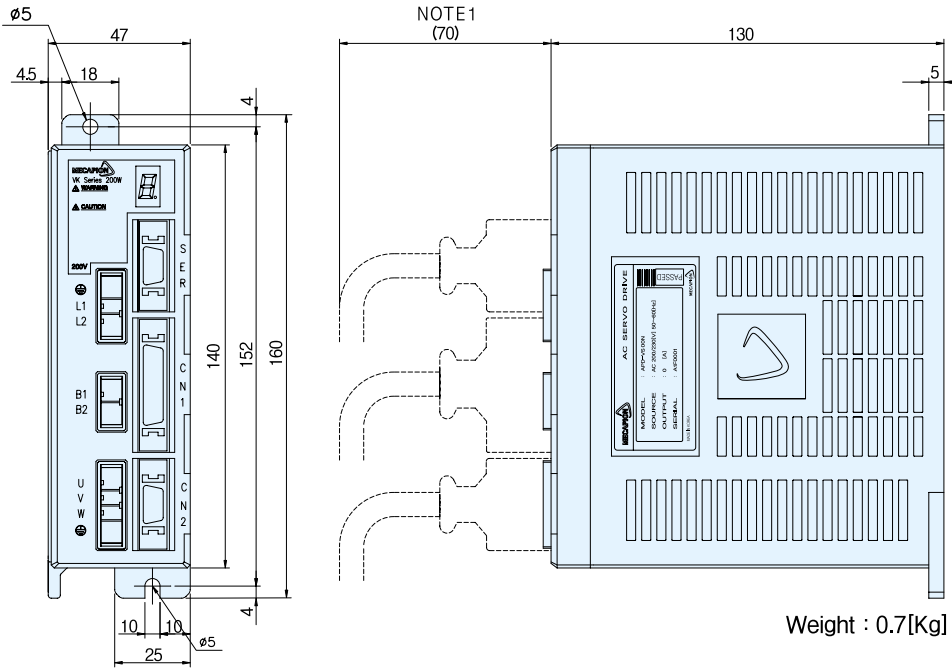
Specification of Power circuit for VK servo Drive

Model (APD-VK)	VKR5N	VK01N	VK02N	VK04N	VK08N
MCCB	ABS336M [8A]				
Noise Filter	NFZ410SM				
MC	GMC-9[11A] or Equivalent				
Cable	AWG16(1.25SQ)				
Power input Terminal for Drive	AMP사 1-178128-3(Case), 175218(Pin)				
Input Terminal for Braking Resistance	AMP사 1-178128-2(Case), 175218(Pin)				
Power input Terminal for Motor	AMP사 1-178128-4(Case), 175218(Pin)				
Braking Resistance	-			30[W] 50[ohm]	



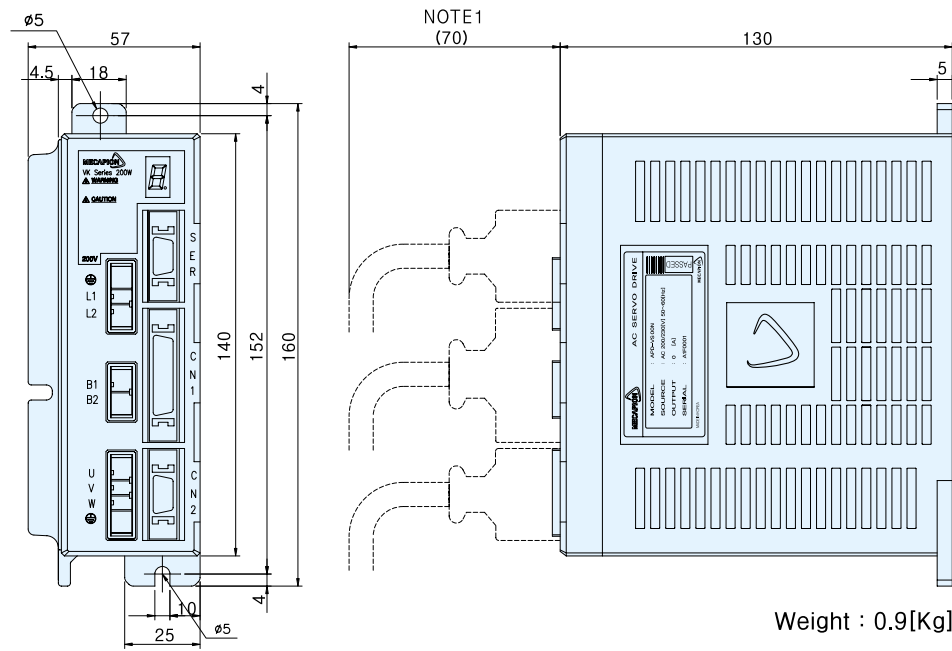
APD-VK Drive Dimensions

APD-VKR5N/VK01N/VK02N



Note1) Dimension in () indicates the size when connector is attached.

APD-VK04N/VK08N



Note1) The dimension in () indicates the size when connector is attached.