

New Integrated Servo Motor *iSV2-CAN*** Series*

Integrated Servo Motor, 24-70VDC, Frame 60mm,80mm,200W-750W

Leadshine iSV2-CAN series integrated servo motor is a 60mm&80mm frame size low-voltage servomotor integrated with a 17bit encoder and a servo drive. At very compact size and with all components integrated, the iSV2-CAN series can save mounting space, eliminate encoder connection & motor wiring time, reduce interference, and cut/reduce cable and labor costs.

CANopen

Main Application :

AGV AGC Electronics Shuttle



◆ Basic specification

- ✧ Up to 750watt
- ✧ Frame size : 60mm, 80mm
- ✧ Voltage input: 20-70vdc
- ✧ Encoder : 17bit incremental
- ✧ Motor with or without brake
- ✧ 2.5 – 3 times overload
- ✧ 4 programmable input
- ✧ 2 programmable output
- ✧ RS232 for configuration

◆ CANopen Communication

- ✧ Up to 128 axes supported in one network
- ✧ Link Layer Protocol : CAN Field-bus
- ✧ Application Layer Protocol : CANopen Protocol
- ✧ CAN-ID type : CAN 2.0A
- ✧ Communication Rate : 1M/500k/250k/100k/50k/20k bit/s
- ✧ Sub-protocol :DS301 V4.02 , DSP 402 V2.0
- ✧ PDO Transmission Modes : Time trigger/event trigger/asynchronization/synchronization
- ✧ Control mode : profile position, profile velocity , profile torque , homing

Part Number	ISV2-CAN6020**	ISV2-CAN6040**	iSV2-CAN8075*
Rated Power(W)	200	400	750
Rated Torque(Nm)	0.64	1.27	2.4
Peak Torque(Nm)	1.92	3.81	7.2Nm
Rated Speed(rpm)	3000	3000	3000
Peak Speed(rpm)	4000	4000	4000
Rated Voltage(Vdc)	48	48	48
Weight(kg)	0.95	1.25	-
Input Voltage(V)	24~70	24~70	24 -70
Continuous Current(Arms)	6.5	10	19
Peak Current(A)	20	28	57
Logic Signal Current(mA)	10	10	10
Isolation Resistance(MΩ)	100	100	-

Connectors and Pin Assignment

Pin	Name	Description
1	DC+	Power Supply Input (Positive)24-70VDC recommended. Please leave reasonable reservation for voltage fluctuation and back-EMF during deceleration.
2	DC-	Power Ground (Negative)
3	RBR+	Regenerative resistor +
4	RBR-	Regenerative resistor -

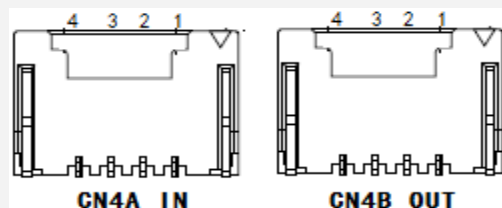
RS232 Communication Connector

Pin	Name	I/O	Description
1	+5V	O	+5V power output (Note: Do not connect it to PC' s serial port)
2	TxD	O	RS232 transmit.
3	GND	GND	Ground.
4	RxD	I	RS232 receive.

Control Signal Connector

Pin	Name	I/O	Description
1		I	Reserved
2		I	
3		I	
4		I	
5	COMI	I	Positive terminal of the external input control signal, 12V ~ 24V
6	DI3	I	Digital input signal 3, default value is E-STOP signal, low level available in default , max voltage : 24V input 20KHz
7	DI4	I	Digital input signal 4, default value is homing switch signal (Home switch) , low level available in default , max voltage: 24V input 20KHz
8	DI5	I	Digital input signal 5, default value is Positive limit switch signal(POT), low level available in default , max voltage is 24V input 20KHz
9	DI6	I	Digital input signal 6, default value is Negative limit switch signal (NOT), low level available in default , max voltage is 24V input 20KHz
10	DO1	O	Digital output signal 1 , default value is alarm output, 24V, <100mA
11	DO2	O	Digital output signal 2 , default value is servo-ready output, 24V, <100mA
12	COMO	O	Digital output signal commonality ground, 24V

CAN Connector



Pin	Name
1	CAN_H
2	CAN_L
3	CAN_GND
4	PE

DIP Switch Settings

CAN baudrate	SW1	SW2
Pr0.24 Default setting 1MHz	Off	Off
500KHz	On	Off
250KHz	Off	On
125KHz	On	On

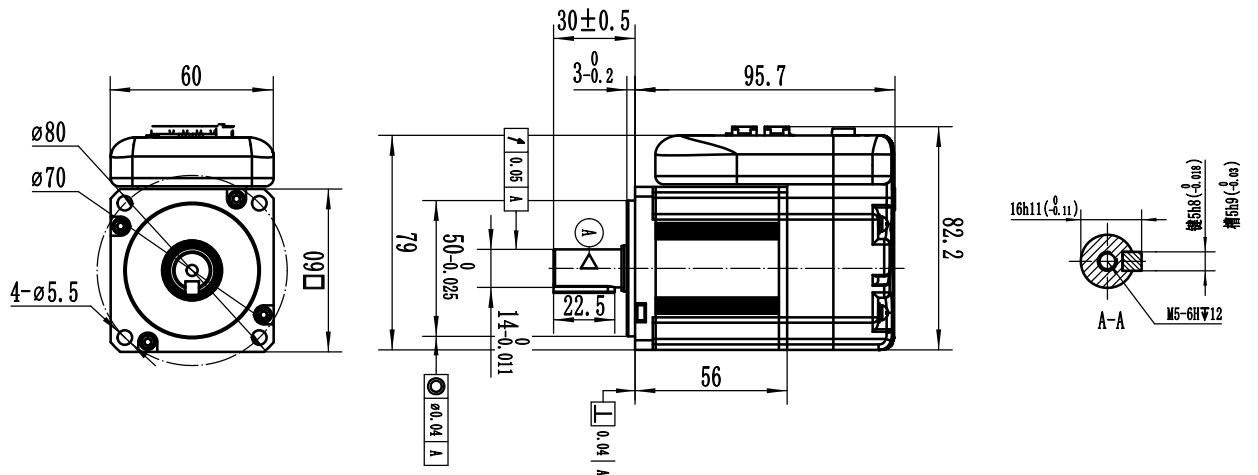
SW3 : setting for terminal resistor

SW3=off , CAN bus cut off terminal resistor ;
 SW3=on , CAN bus connect terminal resistor ;

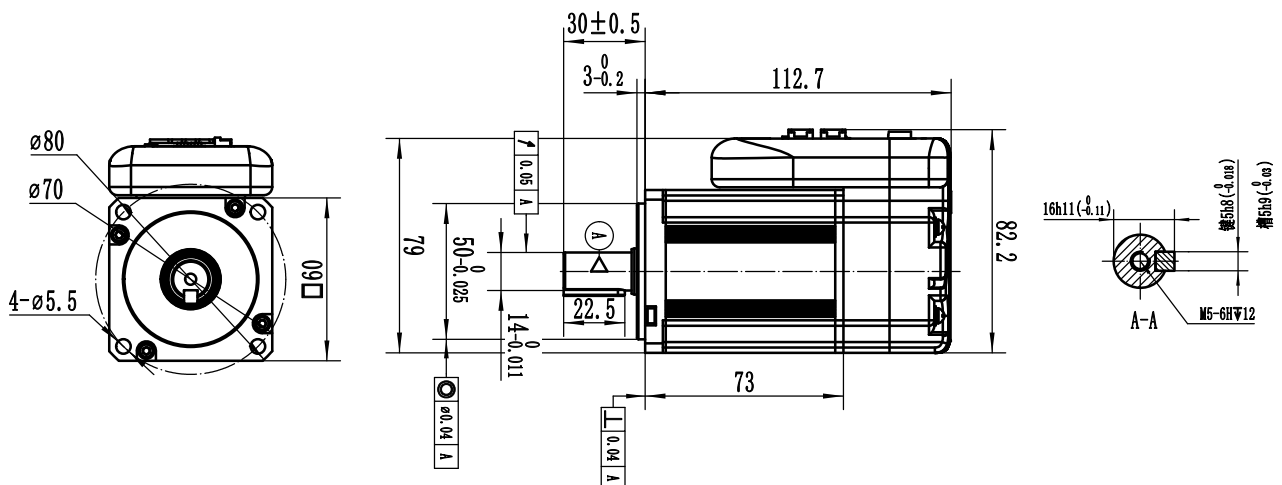
SW4 : selection for the high bit of CAN address

SW4=off , high bit is 0 ;
 SW4=on , high bit is 1 ;

Mechanical Specifications



Mechanical Specification of iSV2-CAN6020***



Mechanical Specification of iSV2-CAN6040***