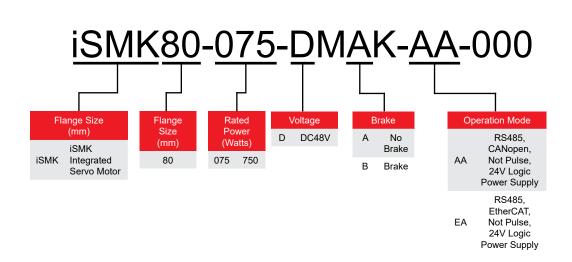
ESCRIPTION

- 750 Watt
- 24-60VDC
- RS485, CANopen (AA), EtherCAT (EA)
- 80mm Frame Size
- Singleturn Magnetic Encoder
- 3000 RPM Rated Speed
- 2.39 Nm Rated Torque
- Modbus RTU or CANopen
- Position and Speed Control
- 24V Logic Power Supply



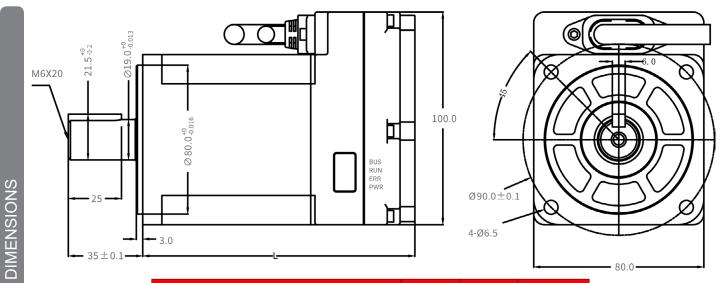
The iSMK80 Integrated Servo System includes a 750 Watt Servo Motor, operated by the Servo Drive. Each system includes a Servo Motor size of 80mm square, power rating of 750 Watts, with a Servo Drive attached to the top of the Servo Motor. These packages are ideal and provide easy start-ups, convenience, and performance. The Servo Motors included in these packages provide torque up to 7.17 Nm. The Servo Drive is designed to switch dynamically among different control methods for more flexible operation and can operate position control mode either with pulse and direction inputs, internal position points, or internal speed points.

Item	Rated Output Power (Watts)	Rated Voltage (VDC)	Rated Speed (RPM)	Rated Torque (Nm)	Rated Current (Arms)	Inertia (Kg-cm²)	Peak Torque (Nm)	Max Speed (RPM)	Brake (24VDC)	Motor Length (mm)	Shaft Diameter (mm)
ISMK80-075-DMAK-AA-000	750	48	3000	2.39	19.2	0.85	7.17	4300	No	128	19
ISMK80-075-DMBK-AA-000	750	48	3000	2.39	19.2	0.91	7.17	4300	Yes	158	19
ISMK80-075-DMAK-EA-000	750	48	3000	2.39	19.2	0.85	7.17	4300	No	128	19
ISMK80-075-DMBK-EA-000	750	48	3000	2.39	19.2	0.91	7.17	4300	Yes	158	19



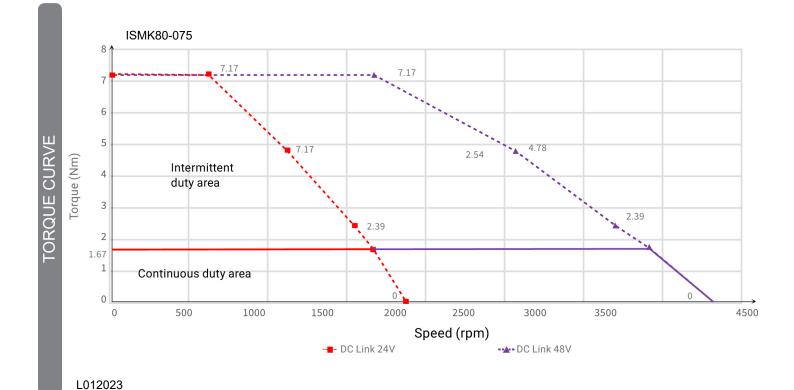
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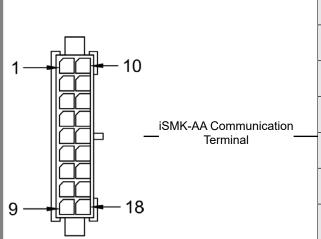


Part #	With Brake	Weight (kg)	Motor Body Size "L" (mm)
ISMK80-075-DMAK-AA-000	No	2.5	128
ISMK80-075-DMBK-AA-000	Yes	3.0	158
ISMK80-075-DMAK-EA-000	No	2.6	128
ISMK80-075-DMBK-EA-000	Yes	3.1	158

Units are in mm



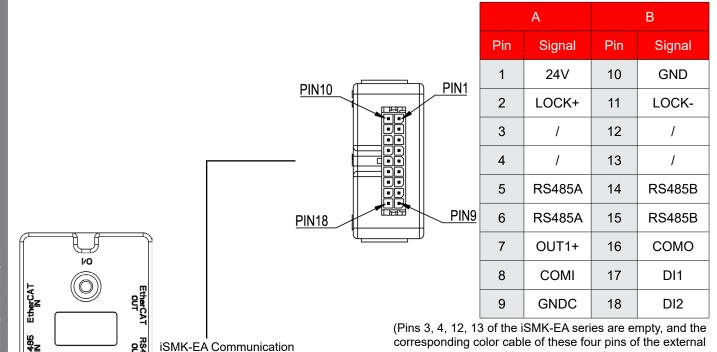




	А			В			
Pin	Name	Cable Color	Pin	Name	Cable Color		
1	24V	Red	10	GND	Black		
2	LOCK+	Purple	11	LOCK-	Purple and Black		
3	CANH	Blue and Black	12	CANL	Blue		
4	CANH	Blue and Black	13	CANL	Blue		
5	RS485A	Orange and Black	14	RS485B	Orange		
6	RS485A	Orange and Black	15	RS485B	Orange		
7	OUT1+	Yellow and Black	16	СОМО	Yellow		
8	СОМІ	White	17	DI1	Green		
9	GNDC	Green and Black	18	DI2	White and Black		

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INTERFACE DESCRIPTION



RS485 IN / Pin EtherCAT IN EtherCAT OUT RS485 OUT 1 / IN TX+ **OUT TX+** 2 / IN TX-**OUT TX-**3 / IN RX+ **OUT RX+** 4 GND\_C / / 5 RS485B / / 6 RS485A IN RX-**OUT RX-**7 / / / / / 8 /

cable can be ignored)

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**Terminal** 

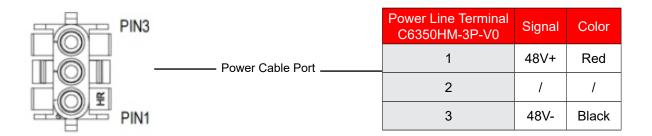
PIN8 PIN1

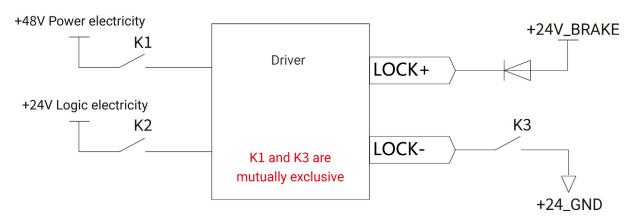
PIN1 PIN8

EtherCAT IN



Signal	Function Description
24V	The logic power supply is an optional option. When using the logic power supply, ensure that the power supply and logic are completely isolated. If the system power supply is not isolated, the logical ground cable is not connected. The logic power supply is connected at DC- and V
GND	Logic electrical reference ground
LOCK+	External release beake input The input voltage is V, the maximum input current is . A, only when the AGV body battery is out of emergency use;
LOCK-	Only when both the logic power supply and the power supply are powered off, the external lock can be unlocked. Do not short-circuit or connect to other signals and enclosures during normal operation
CANH	CAN signal positive end(Only the iSMK-AA series has this terminal)
CANL	CAN signal negative end(Only the iSMK-AA series has this terminal)
485A	RS485 data positive end
485B	RS485 data negative end
GND_C	Signal ground
DIN1	Digital signal input; High level: . VDC~ VDC Low level: VDC~VDC Input impedance: K $\Omega$ Input frequency: KHz
DIN2	Digital signal input; High level: . VDC~ VDC Low level: VDC~VDC Input impedance: K $\Omega$ Input frequency: KHz
COMI	Digital signal input to the common end
OUT1+	Digital signal output; digital output, maximum output current: mA
COMO	Digital signal output common terminal





(Note: After cutting off the iSMK logic and power supply, use the power supply)

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Model Parameter		iSMK80 Series				
Power	Main Supply Voltage	DC24V~60V				
Cumant	Rated Current (A)	19.2 (A)				
Current	Peak Current (PEAK)	17.1 (A)				
Weight (lbs)		2.5 kg for ISMK80-075-DMAK-AA-000 3.0 kg for ISMK80-075-DMBK-AA-000 2.6 kg for ISMK80-075-DMAK-EA-000				
		3.1 kg for ISMK80-075-DMBK-EA-000				
	oss Power (mW)	900				
Fee	dback Signal	Singleturn Communication Type Magnetoelectric Encoder				
Energy C	consumption Brake	There is no brake circuit inside the driver, and an external brake module i required.				
Over-Voltage	e Alarming Threshold	Default is 70V				
Under-Voltag	ge Alarming Threshold	Default is 18V				
Cod	oling Method	Natural Air Cooling				
Input	t Specification	2 Digital Inputs, High: 12.5VDC~30VDC Low: 0VDC~5VDC Input Impedance: 5KΩ Input Frequency: <1KHz				
Input Function		Freely defined as required, the functions are as follows: drive enable, drive error reset, drive mode control, speed loop proportional control, positive limit, negative limit, origin signal, command reverse, internal speed segment control, internal position segment control, emergency stop, start to find the origin, command activation, electronic gear ratio switching, gain switching.				
Outpu	ut Specification	1 Digital Output, OUT1 for the open collector output, the highest voltage 30V, driving capacity of 100mA				
Output Function		Freely defined according to needs, the functions are as follows: driver ready, driver error, motor position to, motor zero speed, motor lock brake, motor speed to, index Z signal appears, maximum limit speed in torque mode, motor lock shaft, motor limit medium, origin finding.				
	RS485	It supports a maximum . Kbps baud rate and can communicate with the controller using the Modbus RTU.				
	CANopen	It supports a maximum Mbps baud rate and can communicate with the controller using the CANopen.				
EtherCAT		Support CoE(CiA protocol)and CSP/CSV/PP/PV/PT/HM mode, communication speed M				
	Operating Tempera- ture	-20 ~ 40°C (No Freezing) When the operating temperature exceeds 40°C, the driver needs to be derated.				
	Operating Humidity	Less than 90%RH (No Condensation)				
	Storage Temperature	-40°C~70°C (No Freezing)				
Operation	Storage Humidity	90%RH (No Condensation)				
Environment	Protection Class	IP65, Shaft End IP54				
	Installation Method	Motor Flange Installation (Vertical Side Installation)				
	Altitude	Rated Working Altitude at 1000m or Below, Above 1000m: Decreasing 1.5% per 100m Rise, Maximum Altitude 2000m Above Sea Level				
	Atmospheric Pressure	86kpa~106kpa				

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