

SAC-N

Single Axis Controller

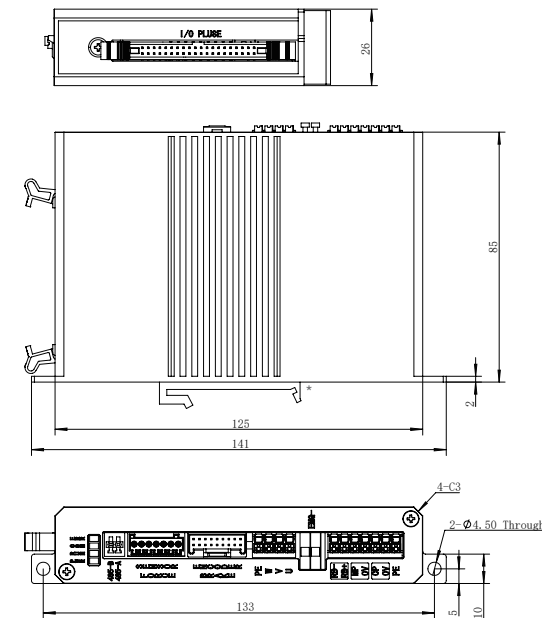
SAC-N
Single Axis Controller



Selection Method

Series	Type	Communication interface	Voltage	Rated Current	Encoder
SAC	N	M0	K	03	A1
	N Standard NF Standard + Closed-loop force control *①	M0 ModbusRTU(RS485) +Pulse+IO(NPN/PNP Compatible) M1 ModbusRTU (RS485)+IO(NN) M2 ModbusRTU (RS485)+IO(PP)	K 24V	03 3A 10 10A	A1 Incremental ABZ+ Single-Turn Absolute SSI

TECHNICAL SPECIFICATIONS



*Guide rail clips are industry standard size and can be removed when installed with screws

Technical Parameters

Number of controllable axes	1
Support control methods	I/O, Pulse(24V), ModbusRTU RS485
Number of points	64
I/o and pulse connection holder	40PIN Connector
Number of i/o	16 in 16 out
Debugging protocols	RS485(Modbus-RTU)
Pulse type	Opticalcoupler
Max. Pulse frequency	100 Kpps
Brake control	Support
Force-controlled Closed-loop control	Support

Operating Environment

Input voltage	24 V DC $\pm$ 10%
Output current	3 A(Rated)/9 A(Peak) 10A(Rated)/25A(Peak)
Recommended operating Environment	0 to 40°C, below 85% RH
Ip class	IP 20
Weigh	300 g

Interface Diagram



I/O and Pulse (24V) Interface:

40-Pin Terminal Block, including I/O interfaces and pulse(24V) input interfaces.

Indicators:

Power indicator and status indicator.

RS485 Interface:

Used for debugging, control, and monitoring.

Sensor Interface:

Relay sensor interface.

Feedback and Brake Interface:

Connects to the encoder and brake of the actuator.

Motor Interface:

UVW and PE connections for the motor of the actuator.

Emergency Stop:

Emergency Stop Control Interface: Used for emergency stop control.

Power Supply, Discharge, and PE Interface:

Logic Power Supply Interface: Supplies power to internal logic circuits, brake, and some external interfaces.

Motor Power Supply Interface: Supplies power to the motor for motion.

PE (Protective Earth) Interface: Connects to the equipment's protective earth (ground) connection.