

Abstract

Ethernet is the most widely used versatile communication. EtherCAT is the protocol which has been improved transmission efficiency and real-time of Ethernet so that it can be used to control industrial machinery.

Open standard

EtherCAT[®] 

❖ Specification of network

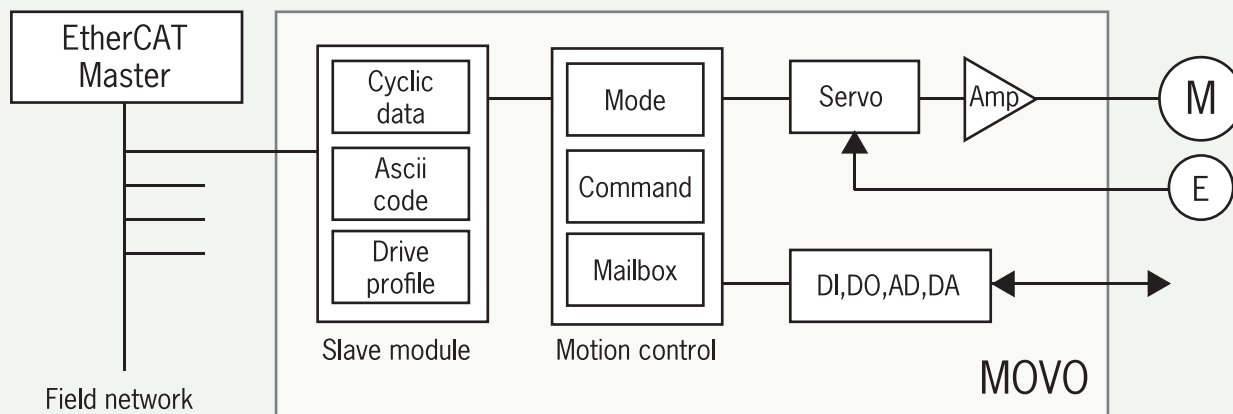
■ Device:	Slave device
■ Type:	Servo drive
■ Version number:	1.0
■ Communication speed:	100Mbps
■ Distributed clock:	Not supported (supported from the next version)
■ Profiles:	MOVO standard, servo, inverter, custom (optional)

❖ Feature of MOVO_ECATT

The versatile servo MOVO suits widely motors and encoders in the world.

■ Multi-mode servo:	Vector current, torque, acceleration, speed, position
■ Trajectory generation:	Position, speed, acceleration, torque, cubic motion trajectory, feedforward
■ Other functions:	Auto tuning, notch filter, frequency response analysis (FRA, DFT)
■ Command language:	MOV/2 - Command execution connected to the servo system in real time
■ User program:	Mailbox
■ Adaptable encoders:	Endat 2.2 and other serial encoders, ABZ incremental encoders
■ Adaptable motors:	Linear and rotational motors, ACMS, DCMs, VCMs, stepping motors
■ Applications:	Ultrahigh-resolution high speed positioning, multi-axis electronic CAM, DDA contouring, robot

❖ MOVO Internal system



❖ MOVO Power class

100V Single phase

Rated power (W)	80	160	262	436	654
Rated current (A)	0.8	1.6	2.5	4.2	6.3
SVF	SVFM1	SVFM2	SVFM4	SVFM6	SVFM8

Overload tolerance: 250%, 30sec for each model

24/48V DC Input can be applied by option (The rated power is reduced proportionally to the DC voltage)

200V Single phase

Rated power (W)	160	262	436	727	1,090
Rated current (A)	0.8	1.3	2.1	3.5	5.3
SVF	SVFH1	SVFH2	SVFH3	SVFH5	SVFH8

Overload tolerance: 250%, 30sec for each model

200V Three-phase

Rated power (kW)	2	4	8
Rated current (A)	7.5	15	30
SVF	SVFH10	SVFH20	SVFH40

Overload tolerance: 200%, 30sec for each model

❖ Product appearance



servan Servoland corporation

7F Sagamihara daiichi-seimei bldg.

4-3-14 Sagamihara, Chuouku, Sagamihara, Kanagawa
JAPAN

TEL +81 42 756 8500 FAX +81 42 756 9236

<http://www.servoland.co.jp/>

sales@servoland.co.jp