

Datasheet

SC8-EC-SFB01

4-Quadrant stepper motor driver

2-Phase stepper motor

EtherCAT®, Step/Dir



Main features

Motor type	2-Phase stepper motor, bipolar, 1.8°
Interface	EtherCAT® - 100 MBit/s
Protocol	CiA402 Drive profile
Supported operations	PP = 1, PV = 3, HM = 6, IP = 7 CSP = 8, CSV = 9
Digital I/Os	Flexible configuration 2 opto isolated outputs 4 isolated inputs
Supported Switches	One Reference- and two Endswitches
Supported Encoder	AB-Encoder for Position error monitoring
Indicator	2 LEDs for displaying Status and Error
IP Rating	IP20, NEMA 1
Mounting type	DIN Rail
Additional functions	Configurable for Step/Dir usage Standard-Middex Mode via EtherCAT® Configurable for standalone usage One input for external brake input

Best practice

Motor	Middex	SM217S ... SM224L	0.28 ... 3 Nm
Encoder	Global Encoder	IH360, IH490, IH510, IH580	1 ... 10000 ppr
Brake	Kania & Edinger	FKB SF055 632-DR-UL	1.4 Nm
Motor cable	Lapp	Ölflex Classic CY 5G1:0	Shielded
Linear Axis	Impex	Large variety of linear units	

Technical details

Input voltage, nominal	20 ... 52	VDC
Voltage supply motor, nominal	20 ... 52	VDC
Power, max.	240	W
Continuous output current	0.1 ... 6	Aeff
Max. peak output current	8	Aeff
Duration	10	s
Step resolution	200 ... 51200	step/rev
Max. step frequency	250	kHz
Switch input voltage	24/48	VDC
Trigger input Voltage	24/48	VDC
Ambient temperature	0 ... 50	°C
Storage temperature	0 ... 70	°C
Humidity	20 ... 85	%
Weight	130	g

Dimension and pins

