

Specifications

Encoder multiplication

Sin-Cos Max. input frequency [KHz]	Multiplication Factor (MF)	Quadrature resolution
800	x4	16
640	x5	20
400	x8	32
320	x10	40
200	x16	64

Encoder Interface

Type: Incremental analog Sin-Cos, 1Vptp, differential
Electrical Interface: Input impedance ~120R
Input voltage range: 1.25Vptp
Maximum Cable length: 20m
Encoder supply [V]: 5V±5%
Encoder maximum current consumption [mA]: 600
If more current is needed, use a separate supply to power the encoder
Connector: Sub-D, 15 pin high density, female

Controller/drive interface

Number of interfaces: 2
Interface connector content:
J3 – Original analog Sin-Cos encoder signals. buffered, 1Vptp, differential
J4 - Original analog Sin-Cos encoder signals. buffered, 1Vptp, differential.
Encoder 5V supply input
Connector: Sub-D, 15 pins high density, male

Power Supply needed

Used to power both the EM64 itself and the encoder: 5V ±5%
The 5V can be supplied by one of the following (selected by jumper):

1. The controller/drive connected to the EM64 via J4. It should be used if the controller/drive can provide a total current of (200mA + the encoder current)
2. An external power supply via J1. It should be used when the controller/drive cannot provide the needed current.

Maximum current consumption [mA]: 200 + the current consumption of the encoder
Connector: 3 pins, Phoenix PN: 1830606
Mating: Phoenix PN: 1827716
Mounting: DIN- rail

Weight

65 gr

Dimensions

30 x 45 x 90 mm³

Environment

Operating: 0°C to +50°C
Storage and transportation: -25°C to +60°C
Humidity (operating range): 5% to 90% non-condensing

Ordering Options

Part Number: EM64
Package contents: 1 EM64 and 5V supply mating connector

Available accessories

EM64-ACC1 - A set of encoder input and outputs connectors:
Two outputs connectors, Sub-D, 15 pins high density, female, connector shells
One encoder input connector, Sub-D, 15 pins high density, male, connector shell