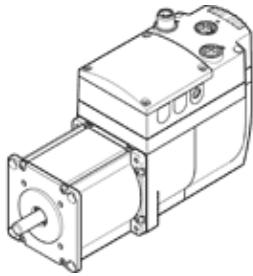


# Integrated Drive EMCA-EC-67-S-1TM-PN

Part number: 8069727

FESTO



## Data sheet

Feature	Value
Controller operating mode	PWM-MOSFET power output stage Cascade controller with P position controller PI speed controller Proportional and integral controller for electricity
Configuration support	GSDML file
Minimum cycle time	2 ms
Rotor position sensor	Absolute multi-turn encoder
Rotary position encoder measuring principle	Magnetic
Protective function	I <sup>2</sup> t monitoring Temperature monitoring Current monitoring Voltage failure detection Drag error monitoring Software end-position detection
Topologies	Star Ring Line
Additional functions	Conformance Class B DCP IRT-compatible LLDP MRP Realtime Class 1 SNMP
Safety function	Safe torque off (STO)
Safety Integrity Level (SIL)	Safe torque off (STO)/SIL 2
Performance level (PL)	Safe torque off (STO)/category 3, performance level d
Display	LED
Max. speed	3,500 1/min
Nominal rotary speed	3,100 1/min
Baud rate	10/100 Mbit/s (Full/Half)
Braking resistor, external	6 Ohm
Diagnostic coverage	90 %
Digital logic output characteristics	Freely configurable to a given extent Not electrically isolated
Hardware fault tolerance	1
IP address allocation	FCT DCP
Max. current, digital logic outputs	100 mA
Max. positive test pulse with logic 0	10,000 µs
Max. negative test pulse with logic 1	600 µs
Nominal motor power	120 W
Nominal voltage DC	24 V
Nominal current	6.9 A
Parameters configuring interface	Ethernet

Feature	Value
Protocol	PROFINET
SFF Safe Failure Fraction	> 90 %
Absolute encoder operating time	With external battery: 6 months Without external battery: 3 - 7 days
Max. number of positioning sets	64
Rotor position encoder resolution	12 Bit
Peak motor power	158 W
Peak current	10.2 A
Permissible voltage fluctuation	+/- 20 %
Authorisation	RCM Mark c UL us - Recognized (OL)
KC mark	KC-EMV
Certificate issuing department	TÜV 01/205/5514.00/16 UL E331130
CE mark (see declaration of conformity)	to EU directive for EMC to EU directive for machinery
Vibration resistance	Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27
Storage temperature	-25 ... 70 °C
Media redundancy	MRP
Relative air humidity	0 - 95 % non-condensing
Protection class	IP54
Ambient temperature	0 ... 50 °C
Note on ambient temperature	Power must be reduced by 1.75% per °C at ambient temperatures above 20 °C
Mass moment of inertia of rotor	0.175 kgcm <sup>2</sup>
Nominal torque	0.37 Nm
Peak torque	0.85 Nm
Permissible axial shaft load	60 N
Permissible radial shaft load	100 N
Probability of Failure per Hour in [1/h].	1E-09
PFD (Probability of Failure on Demand)	1.86E-05
Proof test interval	20 a
Product weight	1,925 g
Number of 24 V DC digital logic outputs	2
Number of digital logic inputs	2
Communications profile	FHPP
Specification, logic input	Based on IEC 61131-2
Logic input working range	24 V
Logic input characteristics	galvanically connected to logic potential
Ethernet, supported protocols	TCP/IP
Input circuit logic	PNP (positive-switching)
Switching logic, outputs	PNP (positive-switching)
Mounting type	Tightened with through hole
Materials note	Contains PWIS substances Conforms to RoHS