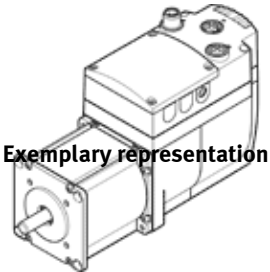


Integrated Drive EMCA-EC-67-

Part number: 1509036
Product to be discontinued

FESTO

Type to be discontinued. Available until 2026. See Support Portal for alternative products.



Exemplary representation

Data sheet

Overall data sheet – Individual values depend upon your configuration.

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
Rotor position sensor	Absolute single turn encoder Absolute multi-turn encoder
Rotary position encoder measuring principle	Magnetic
Protective function	I ² t monitoring Temperature monitoring Current monitoring Voltage failure detection Drag error monitoring Software end-position detection
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	3,300 ... 3,500 1/min
Nominal rotary speed	3,100 ... 3,150 1/min
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
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 ... 150 W
Nominal voltage DC	24 V
Parameters configuring interface	Ethernet
SFF Safe Failure Fraction	> 90 %
Max. number of positioning sets	64
Rotor position encoder resolution	12 Bit
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

Feature	Value
	German Technical Control Board (TÜV) Rheinland UK Ltd. 01/205U/5514.00/22 German Technical Control Board (TÜV) Rheinland 01/205/5514.01/21
CE mark (see declaration of conformity)	to EU directive for EMC to EU directive for machinery in accordance with EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK instructions for machines To UK RoHS instructions
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
Corrosion resistance classification CRC	1 - Low corrosion stress
PWIS conformity	VDMA24364 zone III
Storage temperature	-25 ... 70 °C
Relative air humidity	0 - 95 % non-condensing
Protection class	IP54 IP65
Ambient temperature	0 ... 50 °C
Note on ambient temperature	Power must be reduced by 1.75% per °C at ambient temperatures above 20 °C
Brake holding torque	0 ... 1 Nm
Nominal torque	0.37 ... 0.45 Nm
Probability of Failure per Hour in [1/h].	1E-09
PFD (Probability of Failure on Demand)	1.86E-05
Proof test interval	20 a
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	Conforms to RoHS