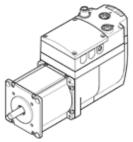
Integrated Drive EMCA-EC-67-M-1TM-CO Part number: 8034241 Product to be discontinued

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



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 |
| Rotor position sensor | Absolute multi-turn encoder |
| Rotary position encoder measuring principle | Magnetic |
| Protective function | l ² t monitoring |
| | Temperature monitoring |
| | Current monitoring |
| | Voltage failure detection |
| | Drag error monitoring |
| | Software end-position detection |
| Safety function | Safe torgue off (STO) |
| Safety Integrity Level (SIL) | Safe torgue off (STO)/SIL 2 |
| Performance level (PL) | Safe torque off (STO)/category 3, performance level d |
| Display | LED |
| Max. speed | 3,300 1/min |
| Nominal rotary speed | 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 | 150 W |
| Nominal voltage DC | 24 V |
| Nominal current | 6.9 A |
| Parameters configuring interface | Ethernet |
| Protocol | CANopen |
| 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 | 200 W |
| Peak current | 10.3 A |
| Permissible voltage fluctuation | +/- 20 % |
| Authorization | RCM Mark |
| | c UL us - Recognized (OL) |
| KC mark | KC-EMV |

FESTO

FESTO

| Feature | Value |
|--|--|
| Certificate issuing department | TÜV 01/205/5514.00/16 |
| | UL E331130 |
| | 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 symbol (see declaration of conformity) | according to EU-EMV guideline |
| | according to EU machines guideline |
| | 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 |
| 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 | 0.301 kgcm2 |
| Nominal torque | 0.45 Nm |
| Peak torque | 0.91 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 | 2,285 g |
| Number of 24 V DC digital logic outputs | 2 |
| Number of digital logic inputs | 2 |
| Communications profile | CiA402 |
| | 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 | Conforms to RoHS |