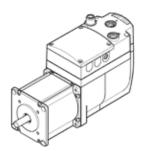
Integrated Drive EMCA-EC-67-M-1TE-EC Part number: 8069730 Product to be discontinued

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
Configuration support	ESI file
Minimum cycle time	2 ms
Rotor position sensor	Absolute single turn encoder
Rotary position encoder measuring principle	Magnetic
Protective function	I ² t monitoring
Trotective function	Temperature monitoring
	Current monitoring
	Voltage failure detection
	Drag error monitoring
	Software end-position detection
Topologies	Star
Topologies	Ring
	Line
Additional functions	
Additional functions	CoE (CSP only)
	Distributed clocks
	Emergency Message
C-f-t, fti	Variable PDO mapping Safe torque off (STO)
Safety function	Safe torque off (STO)/SIL 2
Safety Integrity Level (SIL)	
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
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
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	7.2 A
Parameters configuring interface	Ethernet
Protocol	EtherCAT
SFF Safe Failure Fraction	> 90 %



Feature	Value
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	
Authorization	RCM Mark
	c UL us - Recognized (OL)
KC mark	KC-EMV
Certificate issuing department	TÜV 01/205/5514.00/16
	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
	in accordance with EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC
<i>"</i>	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
PWIS conformity	VDMA24364 zone III
Storage temperature	-25 70 °C
Media redundancy	Ring redundancy
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	2,260 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
0 7F-	with through hole
Materials note	Conforms to RoHS
Materials note	Conforms to RoHS