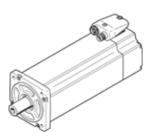
## servo motor EMME-AS-80-M-HS-AMB Part number: 2093203 Product to be discontinued

**FESTO** 





## **Data sheet**

Ambient temperature   1040 °C   Relative air humidity   0.90 %   Rolative air humidity   0.90 %	Feature	Value
Relative air humidity  Conforms to standard  IEC 60034  Insulation protection class  F Rating class according to EN 60034-1  S1 P121  Electrical connector system  Plug Materials note  Conforms to RoHS  Corrosion resistance classification CRC  O - No corrosion stress  PWIS conformity  Authorisation  CE mark (see declaration of conformity)  UKCA marking (see declaration of conformity)  UKC	Ambient temperature	-10 40 °C
Conforms to standard  IEC 60034  F Rating class according to EN 60034-1  S1 Protection class  Reting class according to EN 60034-1  Frotection class  Reting class according to EN 60034-1  S1 Protection class  Materials note  Corrosion resistance classification CRC  O - No corrosion stress  OFWIS conformity  Authorisation  CE mark (see declaration of conformity)  To EU directive for EMC  To EU directive low-voltage devices in accordance with EU 8015 Girective  UKCA marking (see declaration of conformity)  To UK instructions for electrical equipment To UK instructions for EMC To UK Robris Instructions  Nominal operating voltage DC  S65 V  Type of winding switch  Star inside  Number of pole pairs  S1 Standstill torque  3.5 Mm  Nominal torque  3.2 Nm  Peak torque  14 Nm  Nominal torque  3.2 Nm  Nominal torque  3.2 Nm  Nominal torque  3.3 Nm  Nominal motor power  Anominal motor power  Continuous open-circuit current  2.2 A  Nominal motor current  8.8 A  Motor constant, phase-to-phase  Phase-phase winding inductance  Permissible axial shaft load  Permissible axial shaft load  Rotary position encoder measuring principle  Capacitive  LEC 60034  Pill g  Permissible axial shaft load  Absolute multi-turn encoder  Absolute mul	Storage temperature	-20 70 °C
Insulation protection class Rating class according to EN 60034-1 Factor class IP21 Electrical connector system Plug Materials note Corrosion resistance classification CRC O-No corrosion stress PWIS conformity VDMA24364 zone III Authorisation RCM Mark c UL us - Recognized (OL) CE mark (see declaration of conformity) UKCA marking (see declaration of conformity)  UKCA marking (see declaration of conformity)  UKCA marking (see declaration of conformity)  To UK instructions for electrical equipment To UK instructions for electrical equipment To UK instructions for relectrical equipment To UK instructions for relectrical equipment To UK instructions for relectrical equipment To UK instructions for electrical equipment Sofs V Nominal operating voltage DC Sofs V Nominal voltage DC Sofs V So	Relative air humidity	0 - 90 %
Rating class according to EN 60034-1 Protection class Protection class Protection class Plug Materials note Conforms to ROHS Corrosion resistance classification CRC O - No corrosion stress PWIS conformity Authorisation RCM Mark CUL us - Recognized (OL) CE mark (see declaration of conformity) to EU directive for EMC to EU directive for EMC to EU directive low-voltage devices in accordance with EU ROHS directive UKCA marking (see declaration of conformity) To UK instructions for electrical equipment To UK instructions for EMC To UK RoHS instructions Nominal operating voltage DC S65 V Type of winding switch Standsrill torque 3.5 Mm Nominal torque 3.2 Nm Nominal torque 3.2 Nm Nominal torque 3.2 Nm Nominal torque 3.3 Nm Nominal torque 3.4 Nm Nominal torque 3.5 Nm Nominal torque 3.7 Nm Nominal torque 3.8 Nm Nominal motor opwer 4.097 1/min Nominal motor opwer 4.090 W Continuous open-circuit current 2.2 A Nominal motor current 8.8 A Motor constant 1.524 Nm/A Voltage constant, phase-to-phase 97.5 mVmin Phase-phase winding resistance 9 Ohm Phase-phase winding inductance 2.2 R mH Overall mass moment of inertia at power take-off Product weight Permissible axial shaft load Rotary position encoder interface Notary position e	Conforms to standard	IEC 60034
Protection class	Insulation protection class	F
Protection class	Rating class according to EN 60034-1	S1
Materials note Corrosion resistance classification CRC O - No corrosion stress  WiSconformity Authorisation RCM Mark c UL us - Recognized (OL) CE mark (see declaration of conformity) to EU directive for EMC to EU directive low-voltage devices in accordance with EU RoHS directive UKCA marking (see declaration of conformity) To UK instructions for electrical equipment To UK instructions for EMC To UK RoHS instructions Nominal operating voltage DC 565 V Nominal rotage DC 565 V Standsill torque 3.2 Nm Peak torque 14 Nm Nominal rotage 14 Nm Nominal rotage Seed 4,097 1/min Nominal motor power 1,000 W Continuous open-circuit current 2.2 A Nominal motor current 2.1 A Peak current 8.8 A Motor constant 1,524 Nm/A Peak current Motor constant 1,524 Nm/A Peak phase winding resistance 9 Ohm Phase-phase winding inductance 2.2 Nem2 Product weight Product weight Permissible axial shaft load 360 N Rotor position encoder measuring principle Capacitive HiPERACE® Kotary position encoder measuring principle Capacitive		IP21
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Authorisation RCM Mark c UL us - Recognized (OL) CE mark (see declaration of conformity) to EU directive for EMC to EU directive low-voltage devices in accordance with EU RoHS directive UKCA marking (see declaration of conformity) To UK instructions for electrical equipment To UK instructions for electrical equipment To UK instructions for EMC TO UK RoHS instructions Nominal operating voltage DC 565 V Nominal torque 3.5 Nm Number of pole pairs 3 Standstill torque 3.5 Nm Nominal torque 3.2 Nm Peak torque 14 Nm Nominal torque 3.2 Nm Nominal torque 4.097 1/min Max. speed 4.097 1/min Nominal motor power 1,000 W Continuous open-circuit current 2.1 A Nominal motor current 2.1 A Peak current 8.8 A Notor constant 1.524 Nm/A Voltage constant, phase-to-phase 97.5 mVmin Phase-phase winding resistance 9 0 Nm Phase-phase winding resistance 22.8 mH Overall mass moment of inertia at power take-off 2.2 kgcm2 Permissible axial shaft load 360 N Rotor position encoder measuring principle Capacitive	PWIS conformity	VDMA24364 zone III
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UKCA marking (see declaration of conformity)  UKCA marking (see declaration of conformity)  To UK instructions for electrical equipment To UK not instructions for EMC To UK ROHS instructions  Nominal operating voltage DC  565 V  Nominal voltage DC  565 V  Type of winding switch  Number of pole pairs  3  Standstill torque  3.5 Nm  Nominal torque  3.2 Nm  Peak torque  14 Nm  Nominal rotary speed  4,097 1/min  Nominal motor power  1,000 W  Continuous open-circuit current  2.2 A  Nominal motor current  2.1 A  Peak current  8.8 A  Motor constant  Notro constant, phase-to-phase Phase-phase winding resistance  Phase-phase winding inductance  Overall mass moment of inertia at power take-off  Product weight  Permissible radial shaft load  Rotary position encoder measuring principle  Capacitive		c UL us - Recognized (OL)
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in accordance with EU ROHS directive  UKCA marking (see declaration of conformity)  To UK instructions for electrical equipment To UK instructions for electrical equipment To UK instructions for EMC To UK ROHS instructions  Nominal operating voltage DC 565 V  Nominal voltage DC 565 V  Star inside  Number of pole pairs 3  Standstill torque 3.5 Nm  Nominal torque 3.2. Nm  Peak torque 14 Nm  Nominal tortary speed 3,000 1/min  Max. speed 4,097 1/min  Nominal motor power 1,000 W  Continuous open-circuit current 2.2 A  Nominal motor current 2.1 A  Peak current 8.8 A  Motor constant 1.524 Nm/A  Voltage constant, phase-to-phase 97.5 mVmin  Phase-phase winding resistance 9 Ohm Phase-phase winding inductance 22.8 mH  Overall mass moment of inertia at power take-off Product weight 4,350 g  Permissible axial shaft load 72 N  Potatry position encoder interface Rotary position encoder measuring principle Capacitive	,	to EU directive low-voltage devices
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Type of winding switch Number of pole pairs 3 Standstill torque 3.5 Nm Nominal torque 3.5 Nm Peak torque 14 Nm Nominal rotary speed 3,000 1/min Max. speed 4,097 1/min Nominal motor power 1,000 W Continuous open-circuit current 2.2 A Nominal motor current 2.1 A Peak current 8.8 A Motor constant 1.524 Nm/A Voltage constant, phase-to-phase Phase-phase winding resistance Phase-phase winding inductance 2.2 8 mH Overall mass moment of inertia at power take-off Permissible axial shaft load Permissible radial shaft load Rotary position encoder measuring principle Rotary position encoder measuring principle  Star inside 3.5 Xm Star inside 3.5 Nm 3		
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Motor constant  1.524 Nm/A  Voltage constant, phase-to-phase 97.5 mVmin  Phase-phase winding resistance 9 0 hm  Phase-phase winding inductance 22.8 mH  Overall mass moment of inertia at power take-off 2.2 kgcm2  Product weight 4,350 g  Permissible axial shaft load 72 N  Permissible radial shaft load 360 N  Rotor position sensor Absolute multi-turn encoder  Rotary position encoder interface Rotary position encoder measuring principle Capacitive		
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Phase-phase winding inductance       22.8 mH         Overall mass moment of inertia at power take-off       2.2 kgcm2         Product weight       4,350 g         Permissible axial shaft load       72 N         Permissible radial shaft load       360 N         Rotor position sensor       Absolute multi-turn encoder         Rotary position encoder interface       HIPERFACE®         Rotary position encoder measuring principle       Capacitive	9 1	
Overall mass moment of inertia at power take-off  Product weight  4,350 g  Permissible axial shaft load  72 N  Permissible radial shaft load  360 N  Rotor position sensor  Rotary position encoder interface  Rotary position encoder measuring principle  Capacitive		2 - 1111
Product weight 4,350 g  Permissible axial shaft load 72 N  Permissible radial shaft load 360 N  Rotor position sensor Absolute multi-turn encoder  Rotary position encoder interface HIPERFACE®  Rotary position encoder measuring principle Capacitive	·	
Permissible axial shaft load 72 N  Permissible radial shaft load 360 N  Rotor position sensor Absolute multi-turn encoder  Rotary position encoder interface HIPERFACE®  Rotary position encoder measuring principle Capacitive		
Permissible radial shaft load  Rotor position sensor  Rotary position encoder interface  Rotary position encoder measuring principle  Capacitive		· ·
Rotor position sensor Rotary position encoder interface Rotary position encoder measuring principle Capacitive		
Rotary position encoder interface HIPERFACE®  Rotary position encoder measuring principle Capacitive		2 - 2 - 2
Rotary position encoder measuring principle Capacitive	'	
NORTH DUDING FOLGOER, DINDONGAL COMBONIAL DELIGIOS DEL TEVORIDOR (10)	Rotor position encoder, sinusoidal/cosinusoidal periods per revolution	16



Feature	Value
Rotor position encoder, typical resolution	12 Bit
Rotor position encoder, typical angular accuracy	20 arcmin
Brake holding torque	4.5 Nm
Operating voltage DC for brake	24 V
Power consumption, brake	12 W
Mass moment of inertia of brake	0.222 kgcm2
Switching cycles, holding brake	5 million idle actuations (without work of friction!)
MTTF, subcomponent	797 years, holding brake
MTTFd, subcomponent	271 years, rotary position encoder
Energy efficiency	ENEFF (CN) / Class 2