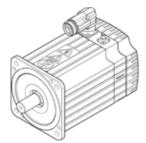
## Servomotor EMMS-AS-190-M-HS-AMB-S1 Part number: 1584949 Product to be discontinued

Without gear unit.



## **Data sheet**

Ambient temperature   10 40 °C     Storage temperature   20 60 °C     Relative air humidity   0 90 %     Conforms to standard   IEC 60034     Insulation protection class   F     Rating class according to EN 60034-1   S1     Temperature monitoring   PTC resistor     Protection class   IP65     Electrical connector system   Plug     Materials note   Conforms to RoHS     Corrosion resistance classification CRC   2 - Moderate corrosion stress     PWIS conformity   VDMA2A36A-B2-L     Authorization   RCM Mark     c UL us - Recognized (01)   c UL us - Recognized (01)     CE symbol (see declaration of conformity)   according to EU tow voltage guideline     In accordance with EU RoHS directive   In accordance with EU RoHS directive     UKCA marking (see declaration of conformity)   To UK instructions for EMC     To UK instructions for EMC   To UK instructions for EMC     Type of winding switch   Start inside     Number of pole pairs   6     Standstill torque   22.63 Nm     Peak torque   12.04 Nm     Norminal motor power   6.880 W <	Feature	Value
Relative air humidity   0 - 90 %     Conforms to standard   IEC 60034     Insulation protection class   F     Rating class according to EN 60034-1   S1     Temperature monitoring   PTC resistor     Protection class   IP65     Electrical connector system   Plug     Materials note   Conforms to RoHS     Corrosion resistance classification CRC   2 - Moderate corrosion stress     Orrosion resistance classification of conformity   VDMA24364-82-1     Authorization   RCM Mark     c UL us - Recognized (OL)   Ccording to EU-EWV guideline     according to EU low voltage guideline   in accordance with EU RoHS directive     UKCA marking (see declaration of conformity)   To UK instructions for EMC     To UK koHS instructions for EMC   To UK koHS instructions     Nominal operating voltage DC   565 V     Nominal voltage DC   565 V     Nominal torque   22.65 Nm     Nominal torque   22.00 1/min     Max. speed   4,060 1/min     Nominal notor gover   6,880 W     Nominal motor current   1.42.4 A     Peak torque   20.0 Nm     Nomin	Ambient temperature	-10 40 °C
Conforms to standard   IEC 60034     Insulation protection class   F     Rating class according to EN 60034-1   S1     Temperature monitoring   PTC resistor     Protection class   IP65     Electrical connector system   Plug     Materials note   Conforms to RoHS     Corrosion resistance classification CRC   2 - Moderate corrosion stress     PWIS conformity   VDMA24364-82-1     Authorization   RCM Mark     c UL us - Recognized (OL)   ccording to EU lew outgae guideline     in according to EU lew outgae guideline   in according to EU lew outgae guideline     in according to EU lew outgae guideline   in according to EU lew outgae guideline     UKCA marking (see declaration of conformity)   To UK instructions for electrical equipment     To UK Kinstructions for EMC   To UK instructions     Nominal operating voltage DC   565 V     Nominal voltage DC   565 V     Nominal rotgue   22.63 Mm     Peak torque   120 Nm     Nominal rotgue   22.63 Mm     Peak torque   120 Nm     Nominal motor gower   6,880 W     Nominal motor gower   6,880 W	Storage temperature	-20 60 °C
Conforms to standard   IEC 60034     Insulation protection class   F     Rating class according to EN 60034-1   S1     Temperature monitoring   PTC resistor     Protection class   IP65     Electrical connector system   Plug     Materials note   Conforms to R0HS     Corrosion resistance classification CRC   2 - Moderate corrosion stress     PWIS conformity   VDMA24364-82-1     Authorization   RCM Mark     c UL us - Recognized (OL)   ccording to EU lew voltage guideline     in according to EU lew voltage guideline   in according to EU lew voltage guideline     in according to EU lew voltage guideline   in according to EU lew voltage guideline     uthorization   C UK instructions for electrical equipment     To UK instructions for EMC   To UK instructions     Vominal operating voltage DC   565 V     Nominal voltage DC   565 V     Nominal voltage DC   565 V     Number of pole pairs   6     Standstill torque   32,63 Mn     Peak torque   120 Nm     Nominal notary speed   4,060 1/min     Nominal noter curent   4,280 W	Relative air humidity	0 - 90 %
Rating class according to EN 60034-1 \$1   Temperature monitoring PTC resistor   Protection class IP65   Electrical connector system Plug   Materials note Conforms to ROHS   Corrosion resistance classification CRC 2 - Moderate corrosion stress   PWIS conformity VDMA24364-82-1   Authorization RCM Mark   c UL us - Recognized (OL) CE symbol (see declaration of conformity)   according to EU-EMV guideline according to EU-EMV guideline   in accordance with EU ROHS directive in accordance with EU ROHS directive   UKCA marking (see declaration of conformity) To UK instructions for electrical equipment   To UK RoHS Instructions To UK RoHS Instructions   Nominal operating voltage DC 565 V   Type of winding switch Star inside   Number of pole pairs 6   Standstill torque 22.63 Nm   Peak torque 120 Nm   Nominal notary speed 4,060 1/min   Max. speed 4,060 1/min   Nominal motor power 6,880 W   Nominal motor current 14.24 A   Peak current 88.2 A   Motor constant 1.589 Nm/A   Voltage constant, phase-to-phase 98.60 Mmin   Phase-phase winding inductance		IEC 60034
Temperature monitoring     PTC resistor       Protection class     IP65       Electrical conector system     Plug       Materials note     Conforms to RoHS       Corrosion resistance classification CRC     2 - Moderate corrosion stress       PWIS conformity     VDMA24364-82-L       Authorization     RCM Mark       c UL us - Recognized (OL)     according to EU-EMV guideline       according to EU-IMV guideline     according to EU low voltage guideline       in accordance with EU RoHS directive     UKCA marking (see declaration of conformity)       To UK instructions for electrical equipment     To UK instructions for electrical equipment       Nominal operating voltage DC     565 V       Nominal voltage DC     565 V       Standstill torque     38.77 Nm       Nominal torque     2.63 Nm       Peak torque     120 Nm       Nominal motor current     14.24 A       Peak current     88.2 A       Motor constant     1.589 Nm/A       Voltage constant, phase-to-phase     98.6 mVmin       Phase-phase winding resistance     0.26 S Ohm       Phase-phase winding resistance     0.26 S Ohm  <	Insulation protection class	F
Temperature monitoring   PTC resistor     Protection class   IP65     Electrical connector system   Plug     Materials note   Conforms to RoH5     Corrosion resistance classification CRC   2 - Moderate corrosion stress     PWIS conformity   VDMA2436-82-L     Authorization   RCM Mark     c UL us - Recognized (OL)   c     CE symbol (see declaration of conformity)   according to EU-EMV guideline     according to EU low voltage guideline   in accordance with EU RoHS directive     UKCA marking (see declaration of conformity)   To UK instructions for EMC     To UK instructions for EMC   To UK RoHS instructions     Nominal operating voltage DC   565 V     Nominal voltage DC   565 V     Standstill torque   38.77 Nm     Nominal torque   2.63 Nm     Peak torque   120 Nm     Nominal motor current   14.24 A     Peak current   88.2 A     Motor constant   1.589 Nmin     Voltage constant, phase-to-phase   98.66 m/min     Phase-phase winding resistance   0.265 Ohm     Phase-phase winding resistance   3260 g     Product weight<	Rating class according to EN 60034-1	S1
Electrical connector system   Plug     Materials note   Conforms to RoHS     Corrosion resistance classification CRC   2 - Moderate corrosion stress     PWIS conformity   VDMA24364-B2-L     Authorization   RCM Mark     c UL us - Recognized (OL)   c     CE symbol (see declaration of conformity)   according to EU-EWV guideline     according to EU low voltage guideline   in accordance with EU RoHS directive     UKCA marking (see declaration of conformity)   To UK instructions for EMC     To UK instructions for EMC   To UK instructions     Nominal operating voltage DC   565 V     Nominal voltage DC   565 V     Nominal voltage DC   565 V     Number of pole pairs   6     Standstill torque   38.77 Nm     Nominal torque   22.63 Nm     Peak torque   120 Nm     Nominal motor power   6,880 W     Nominal motor current   14.24 A     Peak current   88.2 A     Motor constant   1.589 Nm/A     Voltage constant, phase-to-phase   98.6 MVmin     Phase-phase winding inductance   3.38 mH     Overall mass moment of inertia at power t		PTC resistor
Materials note     Conforms to RoHS       Corrosion resistance classification CRC     2 - Moderate corrosion stress       PWIS conformity     VDMA24364-B2-L       Authorization     RCM Mark       c UL us - Recognized (OL)     c UL us - Recognized (OL)       CE symbol (see declaration of conformity)     according to EU low voltage guideline       in according to EU low voltage guideline     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 RoHS instructions       To UK RoHS instructions     For UK RoHS       Nominal operating voltage DC     565 V       Nominal voltage DC     565 V       Number of pole pairs     6       Standstill torque     38.77 Nm       Nominal torque     22.63 Nm       Peak torque     100 Nm       Nominal motor power     6.880 W       Nominal motor power     6.880 W       Nominal motor power     6.880 W       Nominal motor current     14.24 A       Peak current     88.2 A       Motor constant     1.589 Nm/A <t< td=""><td>Protection class</td><td>IP65</td></t<>	Protection class	IP65
Materials note   Conforms to RoHS     Corrosion resistance classification CRC   2 - Moderate corrosion stress     PWIS conformity   VDMA24364-B2-L     Authorization   RCM Mark     c UL us - Recognized (OL)   c according to EU-EMV guideline     according to EU low voltage guideline   in accordance with EU RoHS directive     UKCA marking (see declaration of conformity)   To UK instructions for electrical equipment     To UK control of conformity)   To UK instructions for electrical equipment     To UK RoHS instructions   To UK RoHS instructions     Nominal operating voltage DC   565 V     Nominal voltage DC   565 V     Nominal voltage DC   565 V     Number of pole pairs   6     Standstill torque   38.77 Nm     Nominal torque   22.63 Nm     Peak torque   100 Nm     Nominal motor power   6.880 W     Nominal motor power   6.880 W     Nominal motor power   6.880 W     Nominal motor power   0.265 Ohm     Pase-phase winding resistance   0.265 Ohm     Phase-phase winding resistance   0.265 Ohm     Phase-phase winding inductance   3.38 mH </td <td>Electrical connector system</td> <td>Plug</td>	Electrical connector system	Plug
PWIS conformity     VDMA24364-B2-L       Authorization     RCM Mark       c UL us - Recognized (OL)       CE symbol (see declaration of conformity)     according to EU-EMV guideline       according to EU low voltage guideline     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 more electrical equipment     To UK instructions       Nominal operating voltage DC     565 V       Nominal voltage DC     565 V       Type of winding switch     Star inside       Number of pole pairs     6       Standstill torque     38.77 Nm       Nominal rodruge     2.63 Nm       Peak torque     120 Nm       Nominal motor power     6,880 W       Nominal motor power     6,880 W       Nominal motor current     14.24 A       Peak current     88.2 A       Motor constant     1.589 Nm/A       Voltage constant, phase-to-phase     98.6 mVmin       Phase-phase winding inductance     3.38 mH       Overall mass moment of inertia at		-
PWIS conformity     VDMA24364-B2-L       Authorization     RCM Mark       c UL us - Recognized (OL)       CE symbol (see declaration of conformity)     according to EU-EMV guideline       according to EU low voltage guideline     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 more electrical equipment     To UK instructions       Nominal operating voltage DC     565 V       Nominal voltage DC     565 V       Type of winding switch     Star inside       Number of pole pairs     6       Standstill torque     38.77 Nm       Nominal rodruge     2.63 Nm       Peak torque     120 Nm       Nominal motor power     6,880 W       Nominal motor power     6,880 W       Nominal motor current     14.24 A       Peak current     88.2 A       Motor constant     1.589 Nm/A       Voltage constant, phase-to-phase     98.6 mVmin       Phase-phase winding inductance     3.38 mH       Overall mass moment of inertia at	Corrosion resistance classification CRC	2 - Moderate corrosion stress
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CE symbol (see declaration of conformity)   according to EU-EMV guideline     according to EU low voltage guideline   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     Nominal operating voltage DC   565 V     Nominal voltage DC   565 V     Number of pole pairs   6     Standstill torque   38.77 Nm     Nominal torque   22.63 Nm     Peak torque   120 Nm     Nominal motor power   6,880 W     Nominal motor power   6,880 W     Nominal motor current   14.24 A     Peak constant, phase-to-phase   98.6 mVmin     Phase-phase winding inductance   3.38 mH     Overall mass moment of inertia at power take-off   80.6 kgcm2     Product weight   27,960 g     Permissible axial shaft load   1,080 N     Rotor position sensor   Absolute multi-turn encoder	Authorization	RCM Mark
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Type of winding switchStar insideNumber of pole pairs6Standstill torque38.77 NmNominal torque22.63 NmPeak torque120 NmNominal rotary speed2,900 1/minMax. speed4,060 1/minNominal motor power6,880 WNominal motor current14.24 APeak current88.2 AMotor constant1.589 Nm/AVoltage constant, phase-to-phase98.6 mVminPhase-phase winding resistance0.265 OhmPhase-phase winding inductance3.38 mHOverall mass moment of inertia at power take-off80.6 kgcm2Product weight27,960 gPermissible axial shaft load1,080 NRotor position sensorAbsolute multi-turn encoder		565 V
Number of pole pairs6Standstill torque38.77 NmNominal torque22.63 NmPeak torque120 NmNominal rotary speed2,900 1/minMax. speed4,060 1/minNominal motor power6,880 WNominal motor current14.24 APeak current88.2 AMotor constant1.589 Nm/AVoltage constant, phase-to-phase98.6 mVminPhase-phase winding resistance0.265 0hmPhase-phase winding inductance3.38 mHOverall mass moment of inertia at power take-off80.6 kgcm2Product weight27,960 gPermissible axial shaft load1,080 NRotor position sensorAbsolute multi-turn encoder		Star inside
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Peak torque120 NmNominal rotary speed2,900 1/minMax. speed4,060 1/minNominal motor power6,880 WNominal motor current14.24 APeak current88.2 AMotor constant1.589 Nm/AVoltage constant, phase-to-phase98.6 mVminPhase-phase winding resistance0.265 OhmPhase-phase winding inductance3.38 mHOverall mass moment of inertia at power take-off80.6 kgcm2Product weight27,960 gPermissible axial shaft load1,080 NRotor position sensorAbsolute multi-turn encoder		38.77 Nm
Peak torque120 NmNominal rotary speed2,900 1/minMax. speed4,060 1/minNominal motor power6,880 WNominal motor current14.24 APeak current88.2 AMotor constant1.589 Nm/AVoltage constant, phase-to-phase98.6 mVminPhase-phase winding resistance0.265 OhmPhase-phase winding inductance3.38 mHOverall mass moment of inertia at power take-off80.6 kgcm2Product weight27,960 gPermissible axial shaft load1,080 NRotor position sensorAbsolute multi-turn encoder	Nominal torque	22.63 Nm
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Nominal motor power6,880 WNominal motor current14.24 APeak current88.2 AMotor constant1.589 Nm/AVoltage constant, phase-to-phase98.6 mVminPhase-phase winding resistance0.265 OhmPhase-phase winding inductance3.38 mHOverall mass moment of inertia at power take-off80.6 kgcm2Product weight27,960 gPermissible axial shaft load1,080 NRotor position sensorAbsolute multi-turn encoder		4,060 1/min
Peak current88.2 AMotor constant1.589 Nm/AVoltage constant, phase-to-phase98.6 mVminPhase-phase winding resistance0.265 OhmPhase-phase winding inductance3.38 mHOverall mass moment of inertia at power take-off80.6 kgcm2Product weight27,960 gPermissible axial shaft load250 NPermissible radial shaft load1,080 NRotor position sensorAbsolute multi-turn encoder		
Motor constant1.589 Nm/AVoltage constant, phase-to-phase98.6 mVminPhase-phase winding resistance0.265 OhmPhase-phase winding inductance3.38 mHOverall mass moment of inertia at power take-off80.6 kgcm2Product weight27,960 gPermissible axial shaft load250 NPermissible radial shaft load1,080 NRotor position sensorAbsolute multi-turn encoder		14.24 A
Voltage constant, phase-to-phase98.6 mVminPhase-phase winding resistance0.265 OhmPhase-phase winding inductance3.38 mHOverall mass moment of inertia at power take-off80.6 kgcm2Product weight27,960 gPermissible axial shaft load250 NPermissible radial shaft load1,080 NRotor position sensorAbsolute multi-turn encoder	Peak current	88.2 A
Phase-phase winding resistance0.265 OhmPhase-phase winding inductance3.38 mHOverall mass moment of inertia at power take-off80.6 kgcm2Product weight27,960 gPermissible axial shaft load250 NPermissible radial shaft load1,080 NRotor position sensorAbsolute multi-turn encoder	Motor constant	1.589 Nm/A
Phase-phase winding resistance0.265 OhmPhase-phase winding inductance3.38 mHOverall mass moment of inertia at power take-off80.6 kgcm2Product weight27,960 gPermissible axial shaft load250 NPermissible radial shaft load1,080 NRotor position sensorAbsolute multi-turn encoder	Voltage constant, phase-to-phase	98.6 mVmin
Phase-phase winding inductance3.38 mHOverall mass moment of inertia at power take-off80.6 kgcm2Product weight27,960 gPermissible axial shaft load250 NPermissible radial shaft load1,080 NRotor position sensorAbsolute multi-turn encoder		0.265 Ohm
Overall mass moment of inertia at power take-off80.6 kgcm2Product weight27,960 gPermissible axial shaft load250 NPermissible radial shaft load1,080 NRotor position sensorAbsolute multi-turn encoder		
Product weight27,960 gPermissible axial shaft load250 NPermissible radial shaft load1,080 NRotor position sensorAbsolute multi-turn encoder		80.6 kgcm2
Permissible axial shaft load 250 N   Permissible radial shaft load 1,080 N   Rotor position sensor Absolute multi-turn encoder		
Permissible radial shaft load 1,080 N   Rotor position sensor Absolute multi-turn encoder		
Rotor position sensor Absolute multi-turn encoder	Permissible radial shaft load	
J		· · ·
Rotary position encoder measuring principle Inductive		
Rotor position encoder resolution 19 Bit		

**FESTO** 

## FESTO

Feature	Value
Brake holding torque	30 Nm
Operating voltage DC for brake	24 V
Power consumption, brake	17 W
Mass moment of inertia of brake	3.8 kgcm2
Switching cycles, holding brake	5 million idle actuations (without work of friction!)
MTTF, subcomponent	76 years, rotary position encoder
	4469 years, holding brake
MTTFd, subcomponent	152 years, rotary position encoder
Energy efficiency	ENEFF (CN) / Class 2