



Eaton EP-401526

Eaton S711 Soft starter, 210 A, 200 - 575 V AC, Us= 110-240 V AC, with control unit, Frame size 3, IP00

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| PRODUCT NAME | Eaton S711 soft starter |
| CATALOG NUMBER | EP-401526 |
| PRODUCT LENGTH/DEPTH | 385 mm |
| PRODUCT HEIGHT | 218 mm |
| PRODUCT WIDTH | 202 mm |
| PRODUCT WEIGHT | 11.8 kg |
| CERTIFICATIONS | CE RCM IEC/EN 60947-4-2 CUL UL UL Category Control No.: NMFT UL Category Control No.: NMFT7 UL File No.: E251034 UL 60947-4-2 |



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| TYPE | Soft starter for three-phase loads, with control unit and pump algorithm, DC Brake, Soft Brake, Jog, Bluetooth |
| 10.10 TEMPERATURE RISE | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| 10.11 SHORT-CIRCUIT RATING | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| 10.12 ELECTROMAGNETIC COMPATIBILITY | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| 10.13 MECHANICAL FUNCTION | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. |
| 10.2.2 CORROSION RESISTANCE | Meets the product standard's requirements. |
| 10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES | Meets the product standard's requirements. |
| 10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT | Meets the product standard's requirements. |
| 10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS | Meets the product standard's requirements. |
| 10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION | Meets the product standard's requirements. |
| 10.2.5 LIFTING | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.6 MECHANICAL IMPACT | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.7 INSCRIPTIONS | Meets the product standard's requirements. |
| 10.3 DEGREE OF | Does not apply, since the |

DECLARATIONS OF CONFORMITY

[eaton-soft-starter-declaration-of-conformity-uk251135en.pdf](#)

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| PROTECTION OF ASSEMBLIES | entire switchgear needs to be evaluated. |
| 10.4 CLEARANCES AND CREEPAGE DISTANCES | Meets the product standard's requirements. |
| 10.5 PROTECTION AGAINST ELECTRIC SHOCK | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS | Is the panel builder's responsibility. |
| 10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS | Is the panel builder's responsibility. |
| 10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH | Is the panel builder's responsibility. |
| 10.9.3 IMPULSE WITHSTAND VOLTAGE | Is the panel builder's responsibility. |
| 10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL | Is the panel builder's responsibility. |
| FITTED WITH: | Display Motor overload protection Internal bypass |
| POLLUTION DEGREE | 3 |
| CLASS | Adjustable (5,10,15,20,30) |
| CLIMATIC PROOFING | 5 to 95% Relative Humidity |
| CONNECTION TO SMARTWIRE-DT | No |
| RATED IMPULSE WITHSTAND VOLTAGE (UIMP) | 6000 V |
| FRAME SIZE | FS3 |
| ALTITUDE | Max 4000 m (Above 1000 m for detailed derating use S711 Select Software) |
| NUMBER OF INPUTS | 5 (2 fixed, 2 programmable, 1 thermistor) |
| AMBIENT OPERATING TEMPERATURE - MAX | 60 °C |
| AMBIENT OPERATING TEMPERATURE - MIN | -25 °C |
| AMBIENT STORAGE TEMPERATURE - MAX | 70 °C |
| AMBIENT STORAGE TEMPERATURE - MIN | -40 °C |
| ASSIGNED MOTOR | 60 HP |

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| POWER AT 200/208 V, 60 HZ, 3-PHASE | |
| ASSIGNED MOTOR POWER AT 220/230 V, 60 HZ, 3-PHASE | 75 HP |
| ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE | 150 HP |
| ASSIGNED MOTOR POWER IN-DELTA AT 220/230 V, 60 HZ | 100 HP |
| ASSIGNED MOTOR POWER IN-DELTA AT 460/480 V, 60 HZ | 200 HP |
| ASSIGNED MOTOR POWER IN-DELTA AT 575/600 V, 60 HZ | 300 HP |
| EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID | 945 W |
| HEAT DISSIPATION CAPACITY PDISS | 0 W |
| HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID | 0 W |
| MAINS VOLTAGE - MAX | 632.5 V |
| MAINS VOLTAGE - MIN | 170 V |
| OUTPUT VOLTAGE | 250 V AC (relay outputs) |
| NUMBER OF OUTPUTS | 3 Relay Outputs (1 fixed, 2 programmable) |
| SCREWDRIVER SIZE | 17 mm M10, Terminal screw, Main cables 0.6 x 3.5 mm or PH0, Terminal screws, Control circuit cables |
| VOLTAGE TYPE | AC |
| RATED OPERATIONAL VOLTAGE (UE) - MIN | 200 V |
| RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX | 575 V |
| RATED POWER THREE-PHASE MOTOR, INLINE, AT 230 V | 60 kW |
| RATED POWER THREE-PHASE MOTOR, INLINE, AT 400 V | 110 kW |
| RATED POWER THREE-PHASE MOTOR, INSIDE DELTA, AT 230 V | 90 kW |
| RATED POWER THREE- | 160 kW |

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| PHASE MOTOR, INSIDE DELTA, AT 400 V | |
| STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS | 120 W |
| VOLTAGE RATING - MAX | 575 V |
| APPLICATION | <ul style="list-style-type: none"> • 3-phase motors: Yes • Soft starting of three-phase asynchronous motors |
| PROTECTION | Optional terminal cover for Finger and back-of-hand proof, Protection against direct contact |
| ASSIGNED MOTOR POWER AT 575 V_ 60 HZ_ 3-PHASE | 200 HP |
| MOUNTING POSITION | As required |
| DROP-OUT VOLTAGE | 0 - 90 V, AC operated |
| DEGREE OF PROTECTION | IP00 NEMA Other |
| CURRENT CONSUMPTION | 600 mA, Control circuit, Digital inputs |
| FUNCTIONS | Single direction Torque control DC-Brake Soft-Brake Forward & reverse jog |
| DELAY TIME | 0 - 180 s, Soft start function, Ramp times; 0 - 240 s, Soft stop function, Stop times |
| OVERLOAD CYCLE | AC-53b: 3.5-20:580 |
| PICK-UP VOLTAGE | 93.5 - 264.0 V AC |
| RADIO INTERFERENCE CLASS | Class A (IEC 60947-4-2) |
| FAULT MEMORY | 1000 Faults |
| INTERFACES | Modbus RTU (built-in) Bluetooth (built-in) |
| KICKSTART | 600% (Kickstart current) Max. 2000 ms (Kickstart Duration) |
| RATED CONTROL VOLTAGE (UC) | 110 - 240 V AC (-15%/+10%) |
| SUPPLY FREQUENCY | 50/60 Hz, fLN, Main circuit |
| TERMINAL CAPACITY (STRANDED) | 1 x (95 - 240) mm ² , Main cables |

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| | 1x (1 - 2.5) mm ² , Control circuit cables |
| RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX | 240 V |
| RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN | 110 V |
| RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX | 240 V |
| RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN | 110 V |
| RATED INSULATION VOLTAGE (UI) | 600 V |
| RATED OPERATIONAL CURRENT (IE) AT AC-11 | 3 A |
| RATED OPERATIONAL CURRENT (IE) AT AC-53 | 210 A |
| RATED OPERATIONAL CURRENT (IE) AT AC-53, IN-DELTA | 315 A |
| RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) | 210 A |
| RATED OPERATIONAL POWER AT 220/230 V, 50 HZ | 60 kW |
| RATED OPERATIONAL POWER AT 400 V, 50 HZ | 110 kW |
| RATED OPERATIONAL POWER AT 500 V, 50 HZ | 150 kW |
| RATED OPERATIONAL POWER IN-DELTA AT 220/230 V, 50 HZ | 90 kW |
| RATED OPERATIONAL POWER IN-DELTA AT 400 V, 50 HZ | 160 kW |
| RATED OPERATIONAL POWER IN-DELTA AT 500 V, 50 HZ | 220 kW |
| RATED OPERATIONAL VOLTAGE (UE) - MAX | 575 V |
| RAMP/RUN-UP TIME | 180 s |
| SHOCK RESISTANCE | 15 g, Mechanical |
| SUITABLE FOR | Branch circuits, not as BCPD, (UL/cUL) |
| TIGHTENING TORQUE | 0.5 Nm, Screw terminals, Control circuit cables 40 Nm, Main cables |

