Eaton EP-401534

Eaton S711 Soft starter, 25 A, 200 - 575 V AC, Us= 24 V DC, with control unit, Frame size 1, IP20

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PRODUCT NAME	Eaton S711 soft starter
CATALOG NUMBER	EP-401534
PRODUCT LENGTH/DEPTH	252 mm
PRODUCT HEIGHT	174 mm
PRODUCT WIDTH	128 mm
PRODUCT WEIGHT	3.6 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

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DECLARATIONS OF CONFORMITY	eaton-soft-starter-declaration-of-conformity-uk251135en.pdf

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	FS1
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	7.5 HP

POWER AT 200/208 V, 60 HZ, 3-PHASE	
ASSIGNED MOTOR POWER AT 220/230 V, 60 HZ, 3-PHASE	7.5 HP
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	15 HP
ASSIGNED MOTOR POWER IN-DELTA AT 220/230 V, 60 HZ	10 HP
ASSIGNED MOTOR POWER IN-DELTA AT 460/480 V, 60 HZ	25 HP
ASSIGNED MOTOR POWER IN-DELTA AT 575/600 V, 60 HZ	30 HP
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	112.5 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	1 x 7 mm or T20, Terminal screw, Main cables 0.6 x 3.5 mm or PH0, Terminal screws, Control circuit cables
VOLTAGE TYPE	DC
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	7.5 kW
RATED POWER THREE-PHASE MOTOR, INLINE, AT 400 V	11 kW
RATED POWER THREE-PHASE MOTOR, INSIDE DELTA, AT 230 V	11 kW
RATED POWER THREE-	18.5 kW

PHASE MOTOR, INSIDE DELTA, AT 400 V	
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	35 W
VOLTAGE RATING - MAX	575 V
APPLICATION	• 3-phase motors: Yes • Soft starting of three-phase asynchronous motors
PROTECTION	Finger and back-of-hand proof, Protection against direct contact
ASSIGNED MOTOR POWER AT 575 V_ 60 HZ_ 3-PHASE	20 HP
MOUNTING POSITION	As required
DROP-OUT VOLTAGE	0 - 16 V, DC operated
DEGREE OF PROTECTION	IP20 NEMA 1
CURRENT CONSUMPTION	2800 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: 3.5-20:340
PICK-UP VOLTAGE	19.2 - 28.8 V DC
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)	24 V DC (-20 %/+20 %)
SUPPLY FREQUENCY	50/60 Hz, fLN, Main circuit
TERMINAL CAPACITY (STRANDED)	1 x (6 - 70) mm², Main cables 1x (1 - 2.5) mm², Control

	circuit cables
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	24 VDC
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	24 VDC
RATED INSULATION VOLTAGE (UI)	600 V
RATED OPERATIONAL CURRENT (IE) AT AC-11	3 A
RATED OPERATIONAL CURRENT (IE) AT AC-53	25 A
RATED OPERATIONAL CURRENT (IE) AT AC-53, IN-DELTA	37.5 A
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	25 A
RATED OPERATIONAL POWER AT 220/230 V, 50 HZ	7.5 kW
RATED OPERATIONAL POWER AT 400 V, 50 HZ	11 kW
RATED OPERATIONAL POWER AT 500 V, 50 HZ	18.5 kW
RATED OPERATIONAL POWER IN-DELTA AT 220/230 V, 50 HZ	11 kW
RATED OPERATIONAL POWER IN-DELTA AT 400 V, 50 HZ	18.5 kW
RATED OPERATIONAL POWER IN-DELTA AT 500 V, 50 HZ	22 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 4 Nm, Main cables
SHORT-CIRCUIT PROTECTION RATING	40NHG000B or NZMH2-A50-BT, Type "1" coordination, Main conducting paths 170M3009 "Type 2" coordination, Main conducting paths

START VOLTAGE	Max. 600% FLA, Min. 100% FLA, Soft start function
STARTUP CLASS	CLASS 20 (heavy starting duty 3 x I_e for 45 s) CLASS 10 (star-delta replacement) CLASS 30 (6 x I_e for 30 s)
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (6 - 70) mm², Main cables 1x (1 - 2.5) mm², Control circuit cables
TERMINAL CAPACITY (SOLID)	1 x (6 - 70) mm², Main cables 1x (1 - 2.5) mm², Control circuit cables
TERMINAL CAPACITY (SOLID/STRANDED AWG)	1 x (10 - 2/0), Main cables 1x (28 - 12) , Control circuit cables

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