## Eaton EP-401527

Eaton S711 Soft starter, 250 A, 200 - 575 V AC, Us= 110-240 V AC, with control unit, Frame size 3, IP00

PRODUCT NAME	Eaton S711 soft starter
CATALOG NUMBER	EP-401527
PRODUCT LENGTH/DEPTH	385 mm
PRODUCT HEIGHT	218 mm
PRODUCT WIDTH	202 mm
PRODUCT WEIGHT	11.8 kg
CERTIFICATIONS	CE



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

	standard's requirements.
10.3 DEGREE OF PROTECTION OF ASSEMBLIES	Does not apply, since the 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	ls the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	ls the panel builder's responsibility.
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	ls the panel builder's responsibility.
10.9.3 IMPULSE WITHSTAND VOLTAGE	ls the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	ls the panel builder's responsibility.
FITTED WITH:	Display Motor overload protection Internal bypass
POLLUTION DEGREE	3
CLASS	Adjustable
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)
ALTITUDE  AMBIENT OPERATING TEMPERATURE - MAX	m for detailed derating
AMBIENT OPERATING	m for detailed derating use S711 Select Software)
AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING	m for detailed derating use S711 Select Software)
AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING TEMPERATURE - MIN AMBIENT STORAGE	m for detailed derating use S711 Select Software)  60 °C  -25 °C

TEMPERATURE - MIN	
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	75 HP
ASSIGNED MOTOR POWER AT 220/230 V, 60 HZ, 3-PHASE	100 HP
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	200 HP
ASSIGNED MOTOR POWER IN-DELTA AT 220/230 V, 60 HZ	125 HP
ASSIGNED MOTOR POWER IN-DELTA AT 460/480 V, 60 HZ	250 HP
ASSIGNED MOTOR POWER IN-DELTA AT 575/600 V, 60 HZ	350 HP
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	1125 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)
VOLTAGE TYPE	AC
RATED OPERATIONAL VOLTAGE (UE) - MIN	200 V
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	575 V
VOLTAGE (UE) AT AC -	
VOLTAGE (UE) AT AC - MAX RATED POWER THREE- PHASE MOTOR, INLINE,	
VOLTAGE (UE) AT AC - MAX  RATED POWER THREE- PHASE MOTOR, INLINE, AT 230 V  RATED POWER THREE- PHASE MOTOR, INLINE,	75 kW

PHASE MOTOR, INSIDE DELTA, AT 400 V	
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	120 W
VOLTAGE RATING - MAX	575 V
APPLICATION	<ul> <li>3-phase motors: Yes</li> <li>Soft starting of three-phase asynchronous motors</li> </ul>
PROTECTION	Optional terminal cover for Finger and back-of- hand proof, Protection against direct contact
MOUNTING POSITION	As required
DROP-OUT VOLTAGE	0 - 90 V, AC operated
DEGREE OF PROTECTION	IP00 NEMA Other
FUNCTIONS	Single direction Torque control DC-Brake Soft-Brake Forward & reverse jog
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) mm², Main cables 1x (1 - 2.5) mm², Control circuit cables
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	240 V
RATED CONTROL SUPPLY	110 V

VOLTAGE (US) AT AC, 50 HZ - MIN	
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	250 A
RATED OPERATIONAL CURRENT (IE) AT AC-53, IN-DELTA	375 A
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	250 A
RATED OPERATIONAL POWER AT 220/230 V, 50 HZ	75 kW
RATED OPERATIONAL POWER AT 400 V, 50 HZ	90 kW
RATED OPERATIONAL POWER AT 500 V, 50 HZ	185 kW
RATED OPERATIONAL POWER IN-DELTA AT 220/230 V, 50 HZ	110 kW
RATED OPERATIONAL POWER IN-DELTA AT 400 V, 50 HZ	185 kW
RATED OPERATIONAL POWER IN-DELTA AT 500 V, 50 HZ	250 kW
RATED OPERATIONAL VOLTAGE (UE) - MAX	575 V
RAMP/RUN-UP TIME	180 s
SHOCK RESISTANCE	15 g, Mechanical
TIGHTENING TORQUE	0.5 Nm, Screw terminals, Control circuit cables 40 Nm, Main cables
START VOLTAGE	Max. 600% FLA, Min. 100% FLA, Soft start function
STARTUP CLASS	CLASS 20 (heavy starting duty 3 x I <sub>e</sub> for 45 s) CLASS 10 (star-delta replacement)

	CLASS 30 (6 x l <sub>e</sub> for 30 s)
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (95 - 240) mm², Main cables 1x (1 - 2.5) mm², Control circuit cables
TERMINAL CAPACITY (SOLID)	1 x (95 - 240) mm², Main cables 1x (1 - 2.5) mm², Control circuit cables
TERMINAL CAPACITY (SOLID/STRANDED AWG)	1 x (3/0 - 500), Main cables  1x (28 - 12) , Control circuit cables

## **PROJECT NAME:**

**PROJECT NUMBER:** 

**PREPARED BY:** 



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