## Eaton EP-401519

Eaton S711 Soft starter, 47 A, 200 - 575 V AC, Us= 110-240 V AC, with control unit, Frame size 1, IP20

PRODUCT NAME	Eaton S711 soft starter
CATALOG NUMBER	EP-401519
PRODUCT LENGTH/DEPTH	252 mm
PRODUCT HEIGHT	174 mm
PRODUCT WIDTH	128 mm
PRODUCT WEIGHT	3.6 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 OF RESISTANCE TO ULTRA-VIOLET (UV) RADIATION  TOS NOT A STABILITY OF ENTIRE BY INTERNAL ELECT. EFFECTS  10.2.5 LIFTING  Temporation will provide head dissipation data for the devices. Standard's requirements.  To Poes not apply, since the entire switchgear needs to be evaluated.  10.2.6 MECHANICAL IMPACT  III SHORT-CIRCUIT II ston will provide head dissipation data for the devices.  Is the panel builder's responsibility. The specifications for the switchgear meds to be evaluated.	ТҮРЕ	phase loads, with control unit and pump algorithm, DC Brake, Soft Brake, Jog,
10.11 SHORT-CIRCUIT RATING  responsibility. The specifications for the switchgear must be observed.  10.12 ELECTROMAGNETIC COMPATIBILITY  10.13 MECHANICAL FUNCTION  10.2.2 CORROSION Meets the product standard's requirements.  10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES  10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT  10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS  10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION  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.	10.10 TEMPERATURE RISE	responsible for the temperature rise calculation. Eaton will provide heat dissipation
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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	Is 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	<u> </u>
SMARTWIRE-DT	No
SMARTWIRE-DT  RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	No 6000 V
RATED IMPULSE WITHSTAND VOLTAGE	
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V
RATED IMPULSE WITHSTAND VOLTAGE (UIMP) FRAME SIZE	6000 V  FS1  Max 4000 m (Above 1000 m for detailed derating
RATED IMPULSE WITHSTAND VOLTAGE (UIMP) FRAME SIZE  ALTITUDE  AMBIENT OPERATING	FS1  Max 4000 m (Above 1000 m for detailed derating use S711 Select Software)
RATED IMPULSE WITHSTAND VOLTAGE (UIMP) FRAME SIZE  ALTITUDE  AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING	6000 V  FS1  Max 4000 m (Above 1000 m for detailed derating use S711 Select Software)  60 °C
RATED IMPULSE WITHSTAND VOLTAGE (UIMP) FRAME SIZE  ALTITUDE  AMBIENT OPERATING TEMPERATURE - MAX  AMBIENT OPERATING TEMPERATURE - MIN  AMBIENT STORAGE	6000 V  FS1  Max 4000 m (Above 1000 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	10 HP
ASSIGNED MOTOR POWER AT 220/230 V, 60 HZ, 3-PHASE	15 HP
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	30 HP
ASSIGNED MOTOR POWER IN-DELTA AT 220/230 V, 60 HZ	25 HP
ASSIGNED MOTOR POWER IN-DELTA AT 460/480 V, 60 HZ	50 HP
ASSIGNED MOTOR POWER IN-DELTA AT 575/600 V, 60 HZ	60 HP
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	211.5 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)
VOLTAGE TYPE	AC
RATED OPERATIONAL VOLTAGE (UE) - MIN	200 V
RATED OPERATIONAL VOLTAGE (UE) AT AC -	575 V
MAX	
RATED POWER THREE- PHASE MOTOR, INLINE, AT 230 V	15 kW
RATED POWER THREE- PHASE MOTOR, INLINE, AT 230 V RATED POWER THREE-	15 kW 22 kW
RATED POWER THREE- PHASE MOTOR, INLINE, AT 230 V RATED POWER THREE- PHASE MOTOR, INLINE, AT 400 V RATED POWER THREE-	

PHASE MOTOR, INSIDE DELTA, AT 400 V	
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	35 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	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	IP20 NEMA 1
FUNCTIONS	Single direction Torque control DC-Brake Soft-Brake Forward & reverse jog
OVERLOAD CYCLE	AC-53b: 3.5-20:340
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 (6 - 70) mm <sup>2</sup> , Main cables 1x (1 - 2.5) mm <sup>2</sup> , Control circuit cables
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	240 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50	110 V

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	47 A
RATED OPERATIONAL CURRENT (IE) AT AC-53, IN-DELTA	70.5 A
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	47 A
RATED OPERATIONAL POWER AT 220/230 V, 50 HZ	15 kW
RATED OPERATIONAL POWER AT 400 V, 50 HZ	22 kW
RATED OPERATIONAL POWER AT 500 V, 50 HZ	30 kW
RATED OPERATIONAL POWER IN-DELTA AT 220/230 V, 50 HZ	22 kW
RATED OPERATIONAL POWER IN-DELTA AT 400 V, 50 HZ	37 kW
RATED OPERATIONAL POWER IN-DELTA AT 500 V, 50 HZ	45 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 4 Nm, Main cables
START VOLTAGE	Max. 600% FLA, Min. 100% FLA, Soft start function
STARTUP CLASS	CLASS 20 (heavy starting duty $3 \times I_e$ for $45 \text{ s}$ ) CLASS 10 (star-delta replacement) CLASS 30 ( $6 \times I_e$ for $30 \text{ s}$ )

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

## **PROJECT NAME:**

**PROJECT NUMBER:** 

**PREPARED BY:** 



Eaton House 30 Pembroke Road Dublin 4, Eaton.com

information.





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