DATASHEET - S811+R10P3S



Powering Business Worldwide

Part no.	S811+R10P3S
	168981
EL Number	4137465
(Norway)	

General specifications

General specifications	
Product name	Eaton S811 Soft starter
Part no.	S811+R10P3S
EAN	4015081654772
Product Length/Depth	168.6 millimetre
Product height	201.2 millimetre
Product width	111.3 millimetre
Product weight	4.8 kilogram
Certifications	UL File No.: E202571 C-Tick CSA CSA-C22.2 No. 14 CSA File No.: LR 353 CSA Class No.: 3211-06, 2411-01 UL UL Category Control No.: NMFT GB14048 CCC UL 508 IEC/EN 60947-4-2 CE CSA22.2-14-1995 UL CSA
Product Tradename	S811
Product Type	Soft starter
Product Sub Type	None
Catalog Notes	External solution required (reversing contactor) Regulator supply: External supply voltage
Features & Functions	
Fault memory	10 Faults
Fitted with:	Internal bypass Motor overload protection Display Internal bypass contacts
Functions	Suppression of closing transients Overload monitoring Potential isolation between power and control sections Current limitation Soft start function Suppression of DC components for motors Single direction Min. ramp time 1 s - fast switching (semiconductor contactor) Underload monitoring
Interfaces	Modbus RTU (built-in)
General information	
Class	Adjustable
Connection to SmartWire-DT	No
Degree of protection	IP20 NEMA Other
Frame size	R
Mains voltage - min	200 V
Mains voltage - max	600 V
Mounting position	
Mounting position	As required
Nounung position Overvoltage category	As required
Overvoltage category	

Rated insulation voltage (Ui)	660 V
Shock resistance	15 g, Mechanical
Startup class	CLASS 10 (star-delta replacement) CLASS 30 (6 x l# for 30 s) CLASS 20 (heavy starting duty 3 x l# for 45 s)
Suitable for	Branch circuits, not as BCPD, (UL/CSA)
Туре	Soft starter for three-phase loads, with control unit and pump algorithm
Voltage type	DC
limatic environmental conditions	
Altitude	Above 2000 m with 0.5 % derating per 100 m Max. 2000 m
Ambient operating temperature - min	-30 °C
Ambient operating temperature - max	50 °C
Ambient storage temperature - min	-50 °C
Ambient storage temperature - max	70 °C
Climatic proofing	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-3
lain conducting paths	
Overload cycle	AC-53a: 4.0 - 32: 99 - 3
Rated operational current (Ie) at AC-53	105 A
Rated operational current (Ie) at AC-53, in-delta	182 A
Rated operational voltage (Ue) - min	200 V
Rated operational voltage (Ue) - max	600 V
Short-circuit protection rating	NZMN2-S125, Type "1" coordination, Main conducting paths
Supply frequency	50/60 Hz, fLN, Main circuit
Voltage rating - max	600 V
Notor rating	
Assigned motor power at 200/208 V, 60 Hz, 3-phase	30 HP
Assigned motor power at 220/230 V, 60 Hz, 3-phase	40 HP
Assigned motor power at 460/480 V, 60 Hz, 3-phase	75 HP
Assigned motor power at 600 V, 60 Hz, 3-phase	100 HP
Assigned motor power in-delta at 220/230 V, 60 Hz	60 HP
Assigned motor power in-delta at 460/480 V, 60 Hz	150 HP
Assigned motor power in-delta at 575/600 V, 60 Hz	150 HP
Rated operational power at 220/230 V, 50 Hz	30 kW
Rated operational power at 400 V, 50 Hz	55 kW
Rated operational power at 500 V, 50 Hz	55 kW
Rated operational power in-delta at 220/230 V, 50 Hz	55 kW
Rated operational power in-delta at 400 V, 50 Hz	90 kW
Rated operational power in-delta at 500 V, 50 Hz	110 kW
erminal capacities	
Terminal capacity (flexible with ferrule)	1 x (2.5 - 95) mm², Main cables 1 x (2.5 - 4) mm², Control circuit cables 2 x (1 - 2.5) mm², Control circuit cables
Terminal capacity (solid)	1 x (2.5 - 4) mm ² , Control circuit cables 2 x (1 - 2.5) mm ² , Control circuit cables 1 x (2.5 - 95) mm ² , Main cables
Terminal capacity (solid/stranded AWG)	1 x (14 - 4/0), Main cables 1 x (14 - 12), Control circuit cables 2 x (14 - 12), Control circuit cables
Terminal capacity (stranded)	1 x (2.5 - 4) mm ² , Control circuit cables 2 x (1 - 2.5) mm ² , Control circuit cables 1 x (2.5 - 95) mm ² , Main cables
Screwdriver size	4 mm Hexagon socket-head screw, Terminal screw, Main cables 0.6 x 3.5 mm, Terminal screws, Control circuit cables
Tightening torque	0.4 Nm, Screw terminals, Control circuit cables 11.3 Nm
ontrol circuit	
Current consumption	10 A/150 ms, Control circuit, Regulator supply at peak performance (close bypass at 24 V DC 150 mA, Control circuit, Digital inputs, External 24 V 1000 mA, Control circuit, Regulator supply

Noise of the second s		100 mA, Control circuit, Digital inputs, External 24 V (no-load)
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	10.11 Short-circuit rating	
	10.12 Electromagnetic compatibility	

The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / Soft starter (EC000640)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Load breakout, motor breakout / Semiconductor motor controller or soft starter (ecl@ss13-27-37-09-07 [AC0300016])				
Rated operation current le at 40 °C Tu	А	105		
Rated operating voltage Ue	V	200 - 600		
Rated power three-phase motor, inline, at 230 V	kW	30		
Rated power three-phase motor, inline, at 400 V	kW	55		
Rated power three-phase motor, inside delta, at 230 V	kW	55		
Rated power three-phase motor, inside delta, at 400 V	kW	90		
Function		Single direction		
Internal bypass		Yes		
With display		Yes		
Torque control		No		
Rated surrounding temperature without derating	°C	50		
Rated control supply voltage AC 50 Hz	V	0 - 0		
Rated control supply voltage AC 60 Hz	V	0 - 0		
Rated control supply voltage DC	V	24 - 24		
Voltage type for actuating		DC		
Integrated motor overload protection		Yes		
Release class		Adjustable		
Degree of protection (IP)		IP20		
Degree of protection (NEMA)		Other		