

**EASIER TO CONTROL  
THAN EVER BEFORE**

 **Bluetooth®**



**EATON**

*Powering Business Worldwide*

# New range

## General Performance Soft Starter S711

Like its predecessor, the S711 soft starter sets new standards for soft start technology.

S711 is not only smarter, more powerful and packed with new control and protection features, it also introduces the game-changing Bluetooth LE capability.

In combination with the S711 Connect app for iOS and Android, the Bluetooth connection can be used to download and upload parameters, forward event logs or status information and perform firmware updates.

Rated from 12A to 560A, the S711 is designed with advanced cybersecurity features and Modbus RTU onboard. It also offers the flexibility to add optional communication cards, ensuring maximum reliability and adaptability for your needs.

**This is truly a starter for the future!**





### Our innovation is fueled by your challenges

The constant demand for productivity in every aspect of your operation has driven us to create a soft starter that offers unmatched efficiency from the very beginning.

Eaton develops motor control solutions for a variety of industrial applications worldwide. Our dedicated focus on research, development, and engineering of innovative, customized solutions ensures that when you partner with Eaton, you're collaborating with a global leader.

The new S711 soft starter enhances your operation's productivity. It not only starts and stops your machinery with precision and efficiency but also helps reduce energy costs and improve operational effectiveness by providing valuable data to both operators and plant automation systems.



### Get it right from the start

Design of energy-efficient systems requires consideration of the system as a whole. Using energy-efficient components is important but selection of the correct motor control mode (fixed or variable speed) is also critical.

Approximately 80% of motor applications are most efficiently operated at a fixed speed. Using a variable speed drive (VSD) with such a system is inefficient, regardless of the efficiency of the motor you are running.



# App & Communication

In the fast-paced world of industrial operations, seamless connectivity and efficient data management are key to success. Introducing the S711 Connect, an innovative solution designed to optimize how industrial customers manage and optimize their daily workflow.

## Efficiency and reliability

The S711 Connect stands out with its robust design and advanced features, ensuring your operations run smoothly and efficiently. This intuitive and compact app is engineered to provide high-speed data transfer with minimal latency over Bluetooth Low Energy, making it an indispensable tool for modern industrial environments.

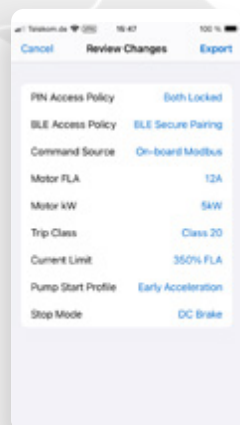


[Eaton.com/S711app](https://Eaton.com/S711app)





# Key features



## Configuration of parameters via app

The S711 Connect offers an intuitive app available on both Android and iOS platforms, allowing users to configure parameters effortlessly.



## Easy storage and backup

With the S711 Connect, storing and backing up parameters can be done easily. Whether you prefer local storage or cloud solutions, this app has you covered, ensuring your data is always secure and accessible.



## Effortless machine management

Managing different machine configurations has never been easier. The S711 Connect allows you to handle multiple setups with ease, providing flexibility and control over your operations.



## Data analysis

Efficiently read and filter data logs to gain valuable insights into your operations. This feature helps in monitoring performance and identifying areas for improvement.



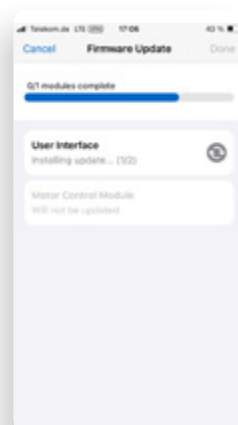
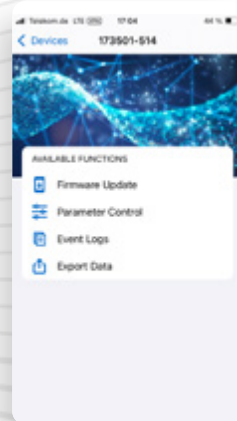
## Convenient download

Download configurations and logs as ZIP packages for easy storage or sharing with support teams. This functionality ensures that you can quickly access and distribute critical information when needed.



## Easy firmware updates

Keep your soft starter firmware up-to-date with fast and easy updates via the app. This ensures that your system is always running the latest software, enhancing performance and security.



Experience the difference with the S711 Connect app and take your operations to the next level.



The S711 Connect app is designed to boost productivity by optimizing workflow and reducing downtime. Its future-proof technology ensures that your investment remains valuable as your needs evolve.

The app is tailored for industrial customers, including managers, IT professionals, and engineers who seek a reliable and efficient solution to enhance their network infrastructure. This is the perfect choice for those looking to streamline their operations and achieve greater efficiency.

Choosing the S711 soft starter means investing in the future of your business. With its advanced features and smart design, this device offers a reliable and efficient solution that meets the demands of modern industrial environments.

# Communication and configuration

## Integrated Modbus RTU

The Eaton S711 soft starter with onboard Modbus RTU simplifies motor control with its easy integration and cost-effective pluggable terminals for connection. It eliminates the need for switches or hubs, by using terminals as daisy-chain, reducing overall system costs.

Modbus RTU ensures real-time data transparency, allowing for efficient monitoring and control.



## Optional Ethernet cards

S711 soft starter features a modular design that supports optional Ethernet-based communication modules, including PROFINET, EtherNet/IP, and Modbus TCP.

These modules can be changed tool-less, allowing for quick and easy upgrades or replacements. All option cards are equipped with dual-port Ethernet connection.

This flexibility ensures seamless integration with various industrial networks, enhancing connectivity and communication.



## User-friendly, detachable interface

The detachable HMI is easy to set up featuring a compact design. Equipped with a full graphic display, it simplifies configuration and operation and intuitively indicates the device's status, parameters and fault codes. Moreover, it is possible to set the menu to 8 different languages.

The HMI is IP65 rated, even though no special tools or mounting frames are required. It can be mounted directly on the device, or remotely on a cabinet for greater flexibility and convenience.



# Smart features

## High efficiency capable

The use of high efficiency motors offers the opportunity to maximize efficiency and save on operating costs, however there can be issues associated with starting these type of motors, including:



- Higher inrush and starting currents that stress electrical supply circuits.
- Spiky pullout torque curves can make smooth control more difficult.

We have developed the S711 soft starter to be an ideal partner for running all motors. Our innovative adaptive acceleration technology auto-tunes for the connected motor (IE2, IE3 & IE4) and gives you precise control over the acceleration and deceleration of your motor without any of the downsides.

**99.5%**  
Efficiency

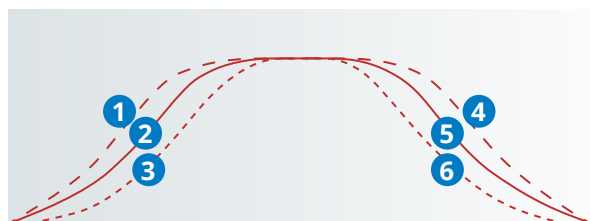
Internal bypass makes the S711 efficient when running

**80%**  
Reduction in  
wasted energy

Compared to misapplied drive in fixed speed application

**0%**  
Harmonics

S711 produces no harmonics.  
Eliminating losses resulting from harmonics.



- 1 Early acceleration
- 2 Constant acceleration
- 3 Late acceleration

- 4 Early deceleration
- 5 Constant deceleration
- 6 Late deceleration

## Unique pump control profiles

Intelligent pump control profiles are designed for ideal control of different types of pump systems, ensuring optimal performance and protection. These profiles adjust the motor's operation to match the specific requirements of various pump applications.

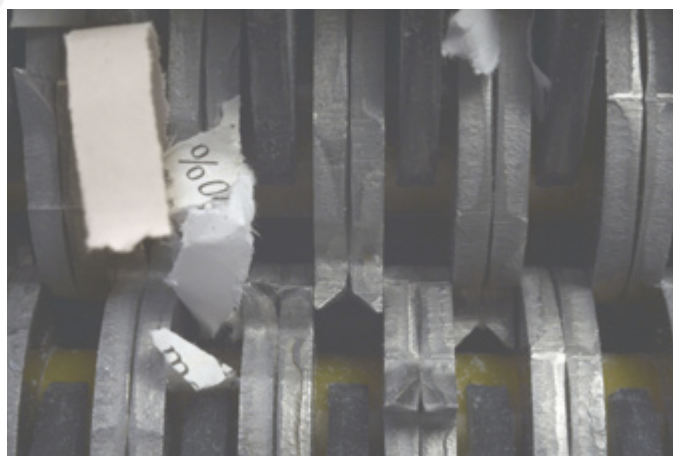
This results in smoother operation, reduced mechanical stress, and extended equipment life.

## Forward and reverse jog

With the S711, forward and reverse jogging functionality is enabled, providing precise control for positioning and maintenance tasks.



This feature allows for small, controlled movements of the motor, facilitating accurate positioning and adjustments. It is an essential tool for maintenance and setup operations, ensuring precise and efficient control.



# Ready for different applications

The S711 soft starter is designed for modern industrial operations, offering unmatched efficiency and reliability. It manages three-phase inductive loads with enhanced control.

In transportation and conveyor systems, it ensures a silent and smooth motor start, reducing mechanical stress and noise.

For pump systems, the S711 reduces the load on the entire system and prevents water hammer, maintaining the integrity of the pump and piping.

In harsh environments like chemical and tank facilities, it provides contactless switching of pumps, ensuring reliable operation and minimizing maintenance.

For fan drive applications, the S711's soft starting reduces wear on V belts, extending their lifespan and improving system reliability.

Integrating the S711 into your operations leads to greater efficiency, reduced energy costs, and enhanced operational effectiveness.



**Eaton's commitment to innovation and quality makes the S711 a dependable choice for various industrial applications.**



**Pumping,  
Compressors**







## Conveyors, Fans



## Extruders, Mills, Silos

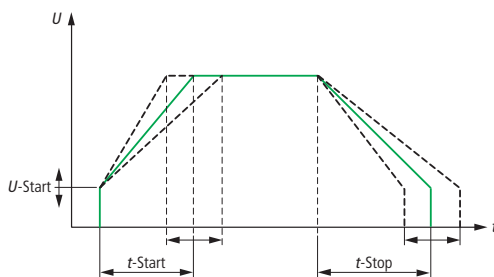
## Mixers, Stirers



# Soft starting for any application

Soft starting is the modern alternative to star-delta starters. Electronic soft starters meet customer requirements for smooth torque increases and targeted current reduction during the startup phase. During the start-up phase, they control the power supply of a three-phase motor in such a way that it adapts to the load behavior of the machine. As a result, the mechanical equipment is accelerated gently, which has positive effects on the operating characteristics and work processes while avoiding any negative impact.

With the DS7 up to 200A and the S811+ up to 1000A, we offer two additional, separate soft starter series. The DS7 is the ideal choice for standard applications, while the S811+ series offers maximum functionality.



Soft starters enable the drive to be optimally adapted to the application in question, and stop functions and the starting voltage can also be configured.



3-phase controlled	Heavy Duty	High Performance	<b>S811</b> <b>37A – 1000A</b> In-Line (In-Delta) $\sqrt{3}$		
	Smallest Soft Starter on the market				
	200-690V AC				
3-phase controlled	General Duty	General Performance	<b>NEW</b> <b>S711</b> <b>12A – 560A</b> In-Line (In-Delta) $\sqrt{3}$		
	Bluetooth LE (on board) & RTU (on board)				
	200-600V AC				
2-phase controlled	Light Duty	Compact Performance	<b>DS7</b> <b>4A – 200A</b> In-Line		
	xStart System Integration				
	200-480V AC				
Typical applications for soft starter			<div>  Pumps                      Fans                      Compressors                      Conveyor                      Crusher                 </div>		



### DS7 soft starter – soft start, strong torque

The DS7 replaces the mechanical contactor and also adds a soft start function. Our patented technology ensures exceptionally smooth motor run-ups at higher torques than alternative solutions are able to deliver. Extended maintenance intervals and reduced operating costs are welcome side effects of this technology. The compact DS7 soft starter has been conceived for standard applications such as pumps, fans and small conveyor belts.



Find out more: [Eaton.com/ds7](https://Eaton.com/ds7)

### S811+ soft starter – a powerful yet compact device

Thanks to the combination of three-phase control, internal bypass and comprehensive monitoring and protection features, the S811+ ensures smooth starts and safe continuous operation of three-phase motors, even in applications with high load torques. The devices can be connected by means of both in-line and delta connections.


Using a digital operating and display unit, the soft starters of the S811+ series can be adapted to both simple and more demanding applications. Consisting of only five frame sizes with rated currents from 37A to 1000A and mains voltages from 200V to 690V, the S811+ is one of the world's smallest, most compact soft starters.





Find out more: [Eaton.com/s811](https://Eaton.com/s811)










# Ordering information

	Rated operational current of the device (AC-53)	Assigned motor rating At 400 V, 50Hz	At 460 V, 60 Hz	Part no.	Catalog no.	Part no.	Catalog no.
	I <sub>e</sub> A	P kW	P HP				
	<b>Frame Size 1</b>						
	IP 20						
	12	5.5	7.5	S711-34012AC	EP-401515	S711-34012DC	EP-401532
	17	7.5	10	S711-34017AC	EP-401516	S711-34017DC	EP-401533
	25	11	15	S711-34025AC	EP-401517	S711-34025DC	EP-401534
	32	15	20	S711-34032AC	EP-401518	S711-34032DC	EP-401535
	47	22	30	S711-34047AC	EP-401519	S711-34047DC	EP-401536

	<b>Frame Size 2</b>						
	IP 20						
	62	30	40	S711-34062AC	EP-401520	S711-34062DC	EP-401537
	75	37	50	S711-34075AC	EP-401521	S711-34075DC	EP-401538
	88	45	60	S711-34088AC	EP-401522	S711-34088DC	EP-401539
	115	55	75	S711-34115AC	EP-401523	S711-34115DC	EP-401540

	<b>Frame Size 3</b>						
	IP 00						
	140	75	100	S711-34140AC	EP-401524	S711-34140DC	EP-401541
	170	90	125	S711-34170AC	EP-401525	S711-34170DC	EP-401542
	210	110	150	S711-34210AC	EP-401526	S711-34210DC	EP-401543
	250	132	150	S711-34250AC	EP-401527	S711-34250DC	EP-401544

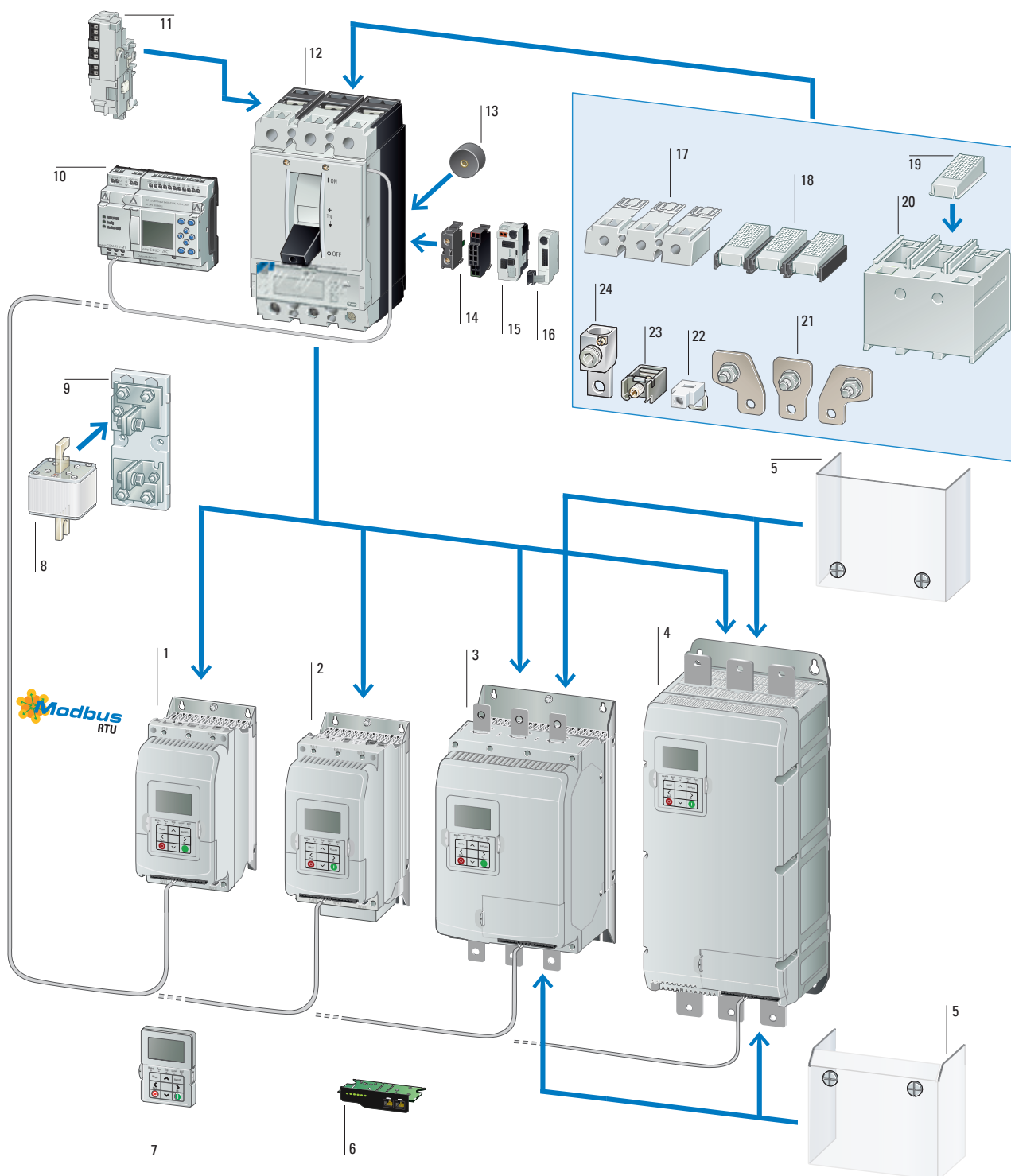
	<b>Frame Size 4</b>						
	IP 00						
	320	185	200	S711-34320AC	EP-401528	S711-34320DC	EP-401545
	410	220	300	S711-34410AC	EP-401529	S711-34410DC	EP-401546
	480	250	350	S711-34480AC	EP-401530	S711-34480DC	EP-401547
	560	315	450	S711-34560AC	EP-401531	S711-34560DC	EP-401548

<b>Accessories</b>					
     				<b>Part no.</b>	<b>Article no.</b>
	Profinet communication card			S711-NET-PROFINET-2	EP-401549
	Ethernet communication card			S711-NET-ETHERNET-2	EP-401550
	Modbus TCP communication card			S711-NET-MODBUSTCP-2	EP-401551
	Replacement keypad with display			S711-KEY-LCD	EP-401552
	Frame size 3 terminal cover			S711-XHB-FS3	EP-401629
	Frame size 4 terminal cover			S711-XHB-FS4	EP-401630

Global approvals\*:



\*More approvals available soon.

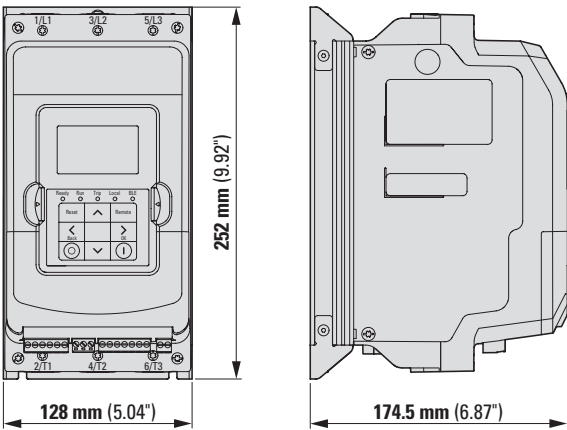



- 1 S711 Frame size 1 up to 47A
- 2 S711 Frame size 2 up to 115A
- 3 S711 Frame size 3 up to 320A
- 4 S711 Frame size 4 up to 560A
- 5 Terminal shroud
- 6 Communication modules, Expansion modules
- 7 External keypad
- 8 Superfast semiconductor fuses
- 9 Fuse bases for superfast semiconductor fuses
- 10 Control relay easyE4
- 11 Voltage release/early-make auxiliary contact
- 12 Circuit-breaker NZM

- 13 Spacer
- 14 Standard auxiliary contacts, Trip-indicating auxiliary switches
- 15 BSM Interface module
- 16 Interface communication module for Modbus RTU
- 17 Terminal cover for terminals
- 18 IP2X protection against contact with a finger
- 19 IP2X protection against contact with a finger
- 20 Terminal cover for cable lugs
- 21 Connection width extension
- 22 Control circuit terminal
- 23 Frame clamps
- 24 Tunnel terminals for Al and Cu cable

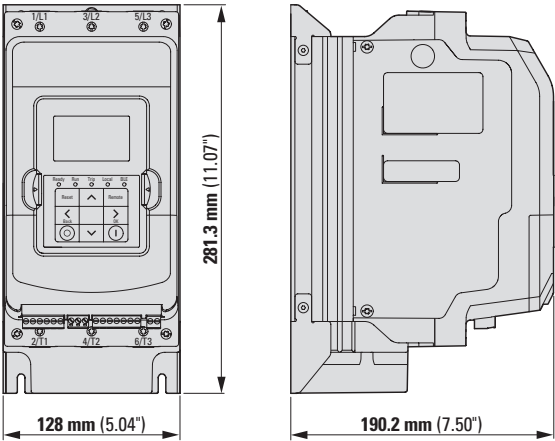
# Dimensions


Frame size 1



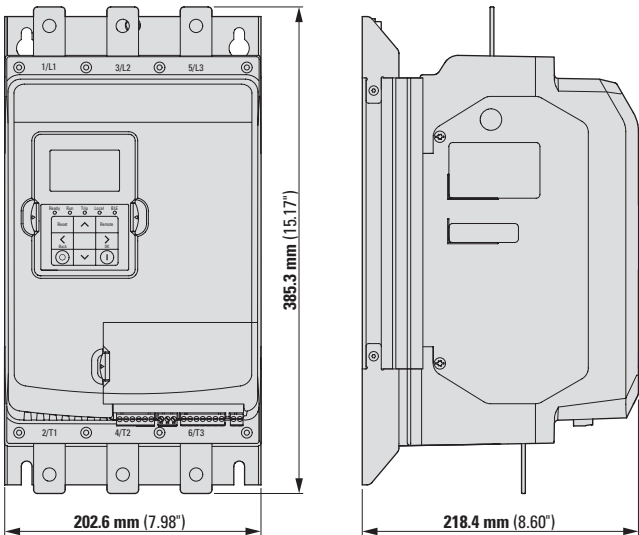
 IP 20  
**3.6 kg**  
(7.94 lbs)

Frame size 2



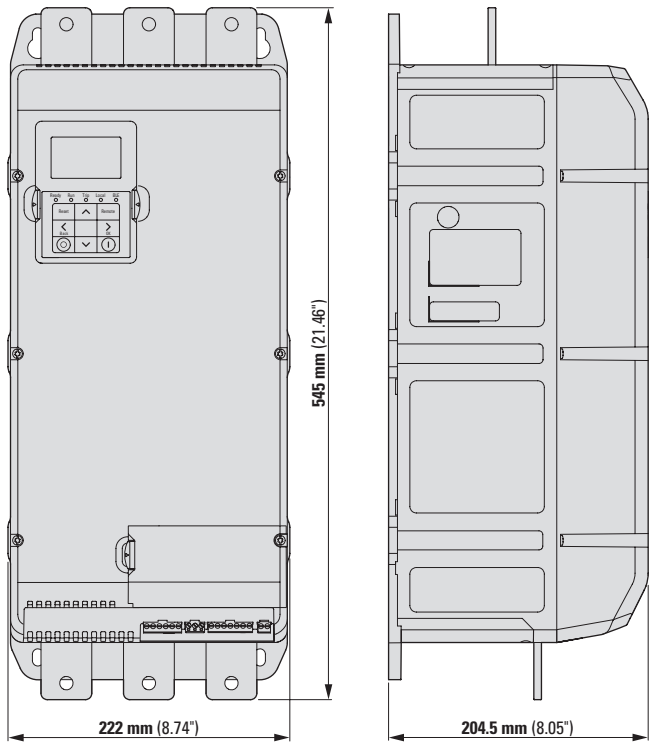
 IP 20  
**5.1 kg**  
(11.25 lbs)

Frame size 3



 IP 00  
**11.8 kg**  
(26.02 lbs)

Frame size 4



 IP 00  
**20.1 kg**  
(44.32 lbs)



# Eaton.com

## All information at a glance

On our product web site you will find all data sheets for each S711 model including CAD data, manuals, instruction leaflets and much more. **Just scan the QR code on your S711 device to easily access the information.**



### Download your catalog now

In the product range catalog „Efficient drive technology for starting, controlling and regulating motors“ each of Eaton's variable frequency drives, variable speed starter, soft starters as well as electronic drive system is available with all technical data, dimensions and weight information. In addition, there is also the applicable software, additional tools and all accessory products included.



### Selection made easy, with the S711 Select tool

S711 Select is dedicated PC software designed to simplify the process of choosing the perfect soft starter for your application. Just enter your application parameters, and S711 Select will recommend the ideal model tailored to your needs. The tool calculates the maximum Full Load Amps (FLA) for your selected model, ensuring optimal performance and compatibility. With S711 Select, complex calculations become effortless, making it easy and accurate to find the right solution for your application.





We make what matters work. \*

\* At Eaton, we believe that power is a fundamental part of just about everything people do. Technology, transportation, energy and infrastructure—these are things the world relies on every day. That's why Eaton is dedicated to helping our customers find new ways to manage electrical, hydraulic and mechanical power more efficiently, safely and sustainably. To improve people's lives, the communities where we live and work, and the planet our future generations depend upon. Because that's what really matters. And we're here to make sure it works.

[See more at Eaton.com/whatmatters](https://www.eaton.com/whatmatters)

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