

# SI-DN

## Low Voltage Soft Starter

The starting solution for motors in the most demanding conditions

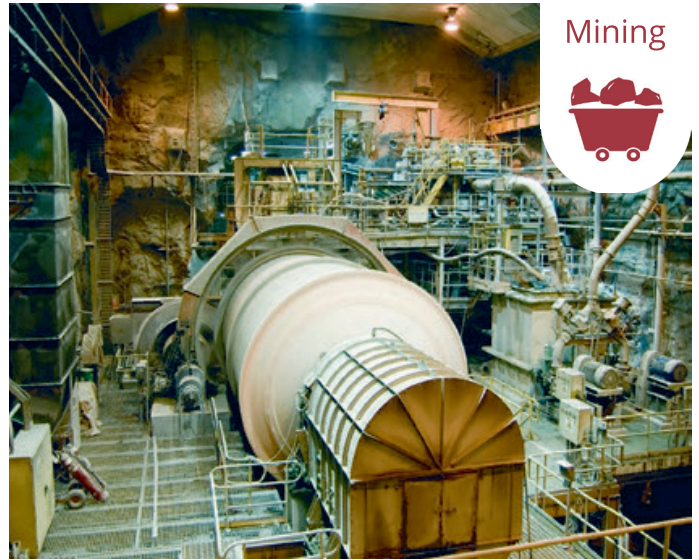




Water



- » Pumps
- » Water Pumps
- » Sewage Pumps



Mining



- » Pumps
- » Conveyors
- » Compressors
- » Fans
- » Ball Mills
- » .....And More



Process



- » Pumps
- » Conveyors
- » Compressors
- » Hydr' Power Packs
- » Mixers
- » .....And More



Marine



- » Pumps
- » Chillers
- » Thrusters
- » Propulsion Motors



Oil & Gas



- » Pumps
- » Compressors
- » Fans



HVAC



- » Pumps
- » Fans
- » Chillers

# SI-DN

**Rated operational current: 17 to 3,300 A**

**Main voltage: 220V – 1,200V**

The **SI-DN** is a heavy duty, advanced, reliable Soft Starter designed to operate under severe conditions to start the most demanding applications, such as those in Marine and Mining installations.

Offering a Soft, stepless acceleration & deceleration with advanced features such as pump control, slow speed, electronic reverse, the SI-DN includes a built-in enhanced motor protection package that makes it one of the best and most popular soft starters in the industry.

Solcon-IGEL's **SI-DN** soft starter has a superior global reputation making it the starting solution of choice even under the most demanding conditions.



Robust construction  
for Marine and Mining  
applications



Up to 60°C  
ambient temperature



Comprehensive  
protection package



Operation without  
bypass contactor  
up to 820A



Automatic triggering  
of firing angle  
(marine, offshore &  
generator operation)



User friendly  
configuration &  
operation

# START YOUR MOTOR SOFTLY

## Advanced Features

---

- » Robust construction
- » Advanced start / stop characteristics
- » User friendly set up and operation
- » Line / Inside delta connection - up to 690V
- » Ambient operating temperature: up to 60°C
- » Motor insulation tester
- » Varied communication options
- » Thermistor input
- » Analog output
- » 45-65Hz Auto-tracking frequency range
- » Can be operated without bypass contactor at 50°C up to 820A
- » Designed to meet Marine Industry standards: up to 3300A

## Soft Start / Soft Stop Functions

---

- » Soft start and soft stop
- » Soft, stepless acceleration & deceleration
- » Current limiting
- » Torque & current control
- » Pump control program
- » Dual adjustment - characteristics
- » Slow speed with electronic reverse Pulse start

## Comprehensive Protection Package

---

- » Too many starts & start inhibit time
- » Long start time (Stall protection)
- » Shear pin (jam) with adjustable delay
- » Electronic overload with selectable curves
- » Under current
- » Phase loss
- » Phase sequence & Under/Over frequency
- » Under/Over voltage
- » Load loss (motor not connected)
- » External fault
- » Shorted SCR
- » Starter over temperature protection
- » Motor insulation test (option)
- » Motor thermistor (option)
- » When using "Preparation for Bypass" all protection remains active

## Options

---

- » DeviceNet
- » Modbus
- » Profibus
- » Insulation test
- » Analog output
- » Conformal coating
- » Preparation for bypass contactor
- » Remote display
- » Marine approval
- » UL standard (A-C)
- » Light duty Models

# Models | 17-3300A, 220-690V

Model	Rated Current (A)	Motor kW @400V	Unit Dimensions (mm)			Weight (kg)
			H	W	D	
A	17	7.5	310	153	170	4.5
	31	15				6.0
	44	22				7.5
	58	30				
	72	37				
B	85	45	385	274	238	14.5
	105	55				
	145	75				
	170	90				
C	210*	110	455	380	292	32
	310*	160				
	390*	200				
D	460*	250	455	380	292	39
	580	315	640	470	302	48
	820	450	710	470	302	65
	950	560	660	623	290	83.5
E	1,100	630	1,100	723	370	170
	1,400	800	1,300	750	392	240
	1,800	950				
F	2,150	1,250				
G	2,400	1,400	1,300	900	410	350
	2,700	1,575				
	3,300	1,750				

\* Dimensions differ with Marine approvals.



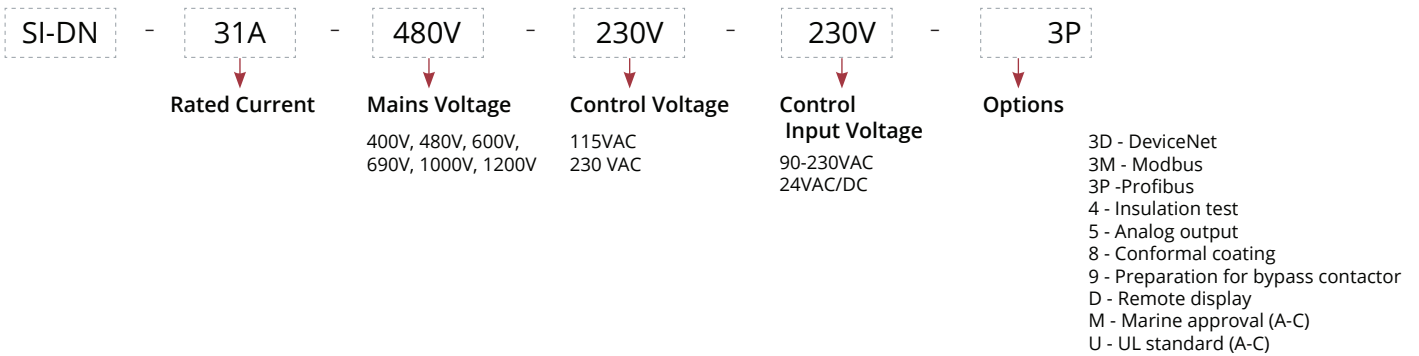
# Low Voltage Soft Starter

## Models | 105-820A, 1,000-1,200V

Model	Rated Current (A)	Unit Dimensions (mm)			Weight (kg)
		H	W	D	
H	105	400	325	300	20
I	170	500	592	345	55
	210				
	310				
	390				60
	460				
J	580	650	650	400	85
	820				

## How To Order

### Example



Please consult Solcon-IGEL representative for further details.

# Global Presence

With a network of more than 100 partners worldwide, the Solcon-IGEL brand is well represented across the globe.

As a global leader in solid state motor soft starters and control systems for applications that run across the scope of the industrial landscape we are constantly expanding our portfolio of products and services using the expertise and market knowledge that we have acquired over the years.

Solcon-IGEL's experience guarantees that our Low Voltage Soft-Starters are the right choice for any application.

Together with our partners we assure safety, efficiency and reliability.



## More Service

Experienced team of engineers ready for any situation



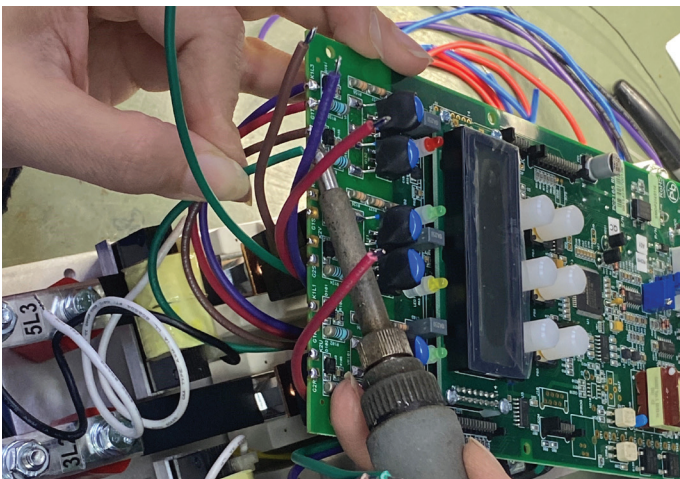
## More Local

Our partners are in your neighbourhood for onsite needs



## More Innovation

Holistic solutions for technology of the future



# Meeting your needs across industries



[contact@solconigel.com](mailto:contact@solconigel.com)



[www.solconigel.com](http://www.solconigel.com)