*i*START

Low Voltage Soft Starter

The iStart is Solcon-IGEL's most advanced soft starter, featuring built-in bypass and full three-phase control for superior motor management. Designed for a wide range of industrial applications, it offers enhanced soft-start and soft-stop characteristics to ensure smooth operation and reduced mechanical stress.

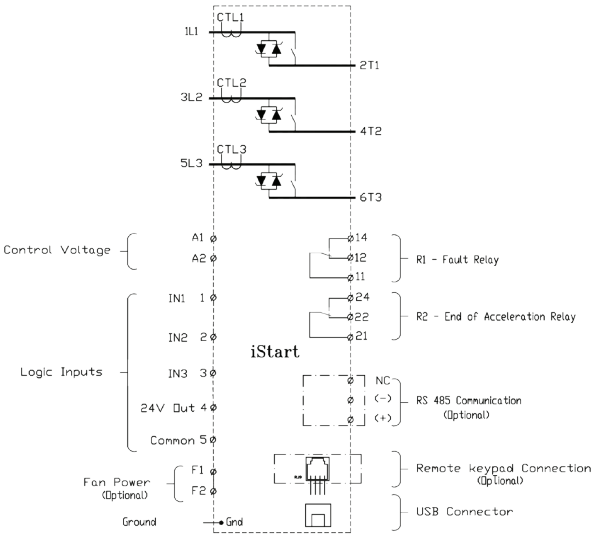
With a comprehensive motor protection package, the iStart guarantees long-term reliability, while its compact and versatile design delivers exceptional performance.

Engineered for easy commissioning and user-friendly operation, it includes precise acceleration control, a current limit on every start, and five adjustable starting curves-optimized for pumps, generators, and other torque-controlled applications.

Specifications

- Supply Voltage: 208-690V + 10%-15%
- Frequency: 45 – 65 Hz
- Control Supply: 115-230VAC +10% - 15%
- Capacity : 400%, 30s @40°
- Languages: up to 8 different optiosn
- Alternative communication options available on request

Input/Output Indication Scheme



*For illustration purposes only

Features

- Universal Interchangeable Control Module
- Multi-language user interface
- Real-time, online, 10 trip logs (including currents, voltages)
- Optimized for high efficiency motors (IE3)
- 2-phase mode - onsite phase fault operation
- Basic /Professional / Expert setup menus
- User defined metering and monitoring of 3-phase voltages, 3-phase currents and power factor
- USB interface - setup & software updates
- Option cards include analogue output including thermistor, three thermal sensors, motor insulation monitor
- Auto reset for selected faults
- 3 Thermistor inputs
- Frequency auto tracking 45-65 Hz
- Inline and inside delta connection
- 3 Current transformers
- Economical 2-phase control units available

Protection Package

- Under voltage
- Phase sequence
- Shear-pin current
- Under current
- Overload classes
- Current imbalance
- Ground fault
- Excessive number of starts
- Excessive starting time
- Soft starter over temperature
- Programmable external fault
- Phase loss
- Motor insulation tester (optional)

Soft Start / Soft Stop Functions

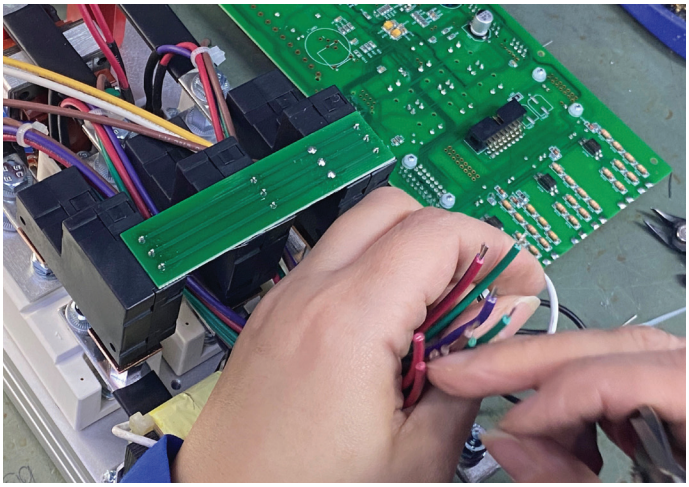
- Acceleration control
- Current limit start
- 5 adjustable curves - pumps, generators, standard & torque-controlled applications
- Soft stop
- Kick start
- Restart delay (3 sec)

Applications

- Pumps
- Mixers
- Crushers
- Conveyors
- Chillers
- Fans
- Compressors
- Power Packs
- Debarkers
- Ball Mills

Models | 17-1100 A, 208-690 V

Model	Rated Current (A)	Unit Dimensions (mm)			Weight (kg)	Internal Bypass	3-Phase Control
		H	W	D			
A	17	245	122	147	3.2	+	+
	44						
	61						
B	72	275	132	208	5.2	+	+
	85						
	95						
C	105	388	175	234	10.9	+	+
	145						
	170						
	205						
D	230	555	365	275	37	+	+
	310						
	350						
E	430	644	365	285	38	+	+
G	515	791	480	302	56	+	+
	590						
	690						
H	720	791	510	305	60	+	+
	850						
I	960	815	559	316	85	+	+
	1100						



Ordering Information

iStart	58	480	230	24	0	S
	Full load Current	Mains Voltage	Control Voltage	Control Input Voltage	Options	Front Panel

Full load Current	
Specify	Description
FLC [A]	17, 44, 61, 72, 85, 95, 105, 145, 170, 205, 230, 310, 350, 430, 515, 690, 720, 850, 960 ,1100
Mains Voltage	
Specify	Description
480	208 - 480VAC, 50/60Hz , +10% -15%
600	208 - -600 VAC, 50/60Hz , +10% -15%
690	208 - 690 VAC, 50/60Hz , +10% -15%
Control Voltage (Terminal A1 & A2)	
Specify	Description
115	115 VAC, 50/60Hz , +10% -15%
230	230 VAC, 50/60Hz , +10% -15%
Control Input Voltage (Terminals 1 - 5)	
Specify	Description
24	24 AC/DC, +10% -15%
Options	
Specify	Description
0	No options
3M	Communication RS-485 Board (MODBUS) (3)
3P	Communication Profibus (factory installed) (3)
5	Analog card - Thermistor in and Analog out (4)
6	3XRTD Thermal Sensors (2) (3)
8	Harsh environment treatment
D	Remote Keypad (3)
33	3 Inputs and 3 Outputs Bus bars (7)(8) – Standard configuration
66	6 Input/Output Bus bars on Bottom side and 6 Input/Output Bus bars on Top side (7) (8)
36	3 Input Bus bars on Top side and 6 Input/Output Bus bars on Bottom side (7) (8)
63	6 Input/Output Bus bars on Top side and 3 output Bus bars on Bottom (7)(8)
Notes:	(1) Only one option from 3M or 3P. (2) Only one option from: 5, 6. (3) You can install these options on site (Consult Factory First) (5) Factory installed option. (7) Only for sizes D to I. (8) Only one option from :33,66,36,63.
Front Panel - Standard	

Disclaimer

This data sheet is provided for informational purposes only and is subject to change without notice. **Solcon-IGEL accepts no responsibility** for errors or omissions. For the latest updates or specific guidance, please contact your authorized representative.