



RAD ELECTRIC Int.
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ISA-SL

LOW VOLTAGE SOFT STARTERS
17–1100 A, 208–690 V

IGEL ELECTRIC

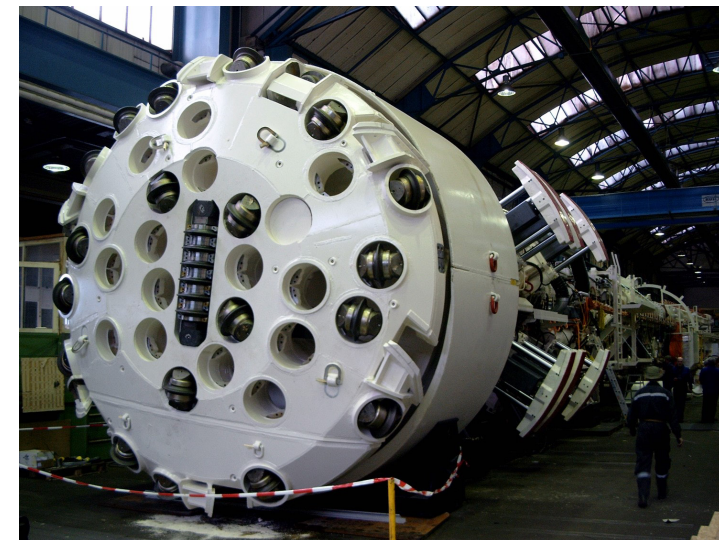
Your Total Soft Starter Solution – Easy To Commission, Simple To Operate

ADVANCED FEATURES

- Progressive communication options
- Multi-language user interface - default in English (LCD supports Spanish & German)
- Online 99 event & trip log (including Current & Voltage) with time stamp
- Universal interchangeable control panel
- Enhanced measurement system, 3-phase
- 3-phase to 2-phase on-site quick fix operation
- Optimized for high efficiency motors (IE3)
- Plug & play fan option
- Three Set-up menu levels:
 - Quick start
 - Professional
 - Expert
- Enhanced data display
- Auto reset for selected faults
- Three external thermal inputs (available by using an option card)
- Frequency autotracking 45 – 65 Hz
- Inline & inside delta connection
- USB interface for software update & programming
- iSetting software for updates & programming
- Universal control voltage 110-220 V AC/DC (sizes A, B, C)
- Busbar configuration options - Size D – I
- Remote display IP44 option

COMPREHENSIVE MOTOR PROTECTION PACKAGE

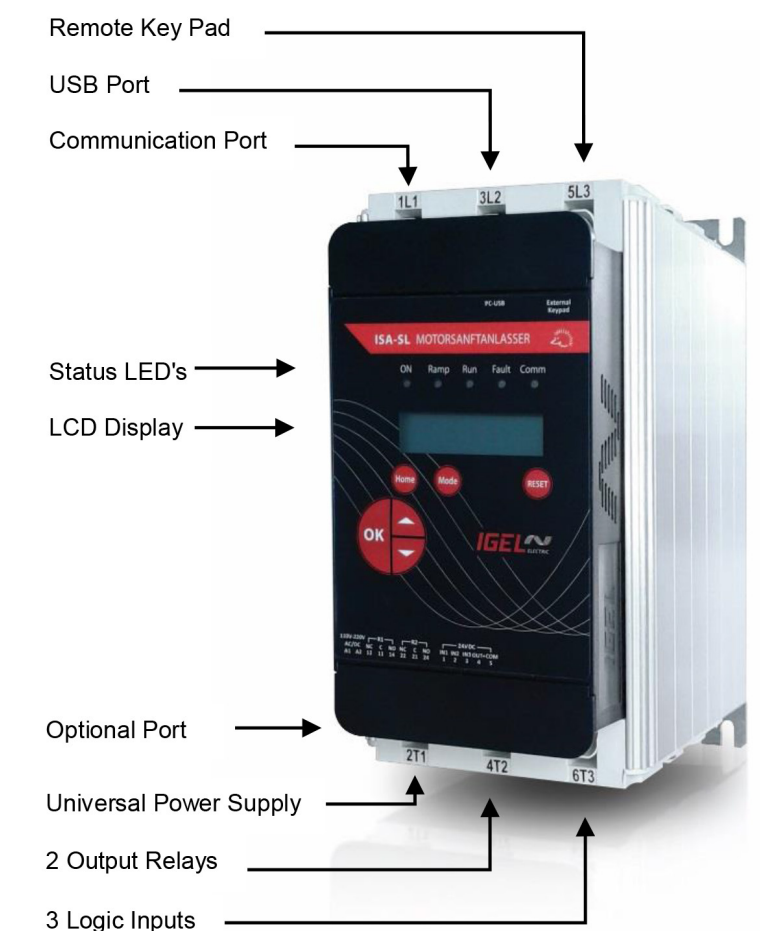
- Under & Over Voltage
- Under & Over Current
- Phase Sequence
- Internal Shear Pin Protection
- Current Inverse Time Protection
- Overload classes
- Ground Fault
- Motor Insulation
- Welded Contactor
- Current Imbalance
- Programmable external fault
- Excessive number of starts
- Excessive starting time
- Soft Starter over temperature
- Motor over temperature
- Phase Loss



COMPLETE SOFT AND SOFT STOP FUNCTIONS

- Acceleration control
- Current limit start
- Adjustments for 4 different motors
- Pump curves
- Torque control
- Soft stop
- Pulse start
- Restart delay

UNIVERSAL INTERCHANGEABLE CONTROL MODULE Single Control Module for Entire Line



APPLICATIONS

- Pumps
- Compressors
- Conveyors & monorails
- Mixers
- Fans & centrifuges
- Hydraulic pumps
- Operates with weak power sources



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Low Voltage Soft Starter Portfolio

Product	Description	Rated Current and Voltage Range	Bypass	Controlled Phases
ISA-SL	Digital	17-1100 A, 208-690 V	Internal	2 or 3-Phase
ISA-D	Digital, Heavy Duty	8-3000 A, 220-1200 V	External	3-Phase
ISA-A	Analog	8-170 A, 220-600 V	Internal above 31 A	3-Phase
ISA-A2P	Analog	8-58 A, 220-600 V	Internal	2-Phase

Available Frame Sizes 17-1100 A, 208-690 V, 2 or 3-phase control with internal bypass

	Rated Current (A)	Motor kW @ 400V	Dimensions (mm)			Weight (kg)	Internal Bypass	2 or 3-Phase Control
			W	H	D			
A	17	7.5	122	245	147	3.2	+	+
	31	15						
	44	22						
B	58	30	132	275	208	5.2	+	+
	72	37						
	85	45						
C	105	55	175	388	234	10.9	+	+
	145	75						
	170	90						
D	230	110	375	644	275	37	+	+
	310	160						
	350	200						
E	430	250	375	644	285	38	+	+
F	515	290	480	691	300	47	+	+
G	590	330	480	791	300	56	+	+
	690	400						
H	720	415	510	791	305	60	+	+
	850	500						
I	960	560	559	815	316	85	+	+
	1100	630						

How To Order ISA-SL (Example):

31A	480V	230V	24V	3P
Rated Current	Mains Voltage	Control Voltage	Control Input Voltage	Options
	A - C: 208 - 600	A - C: 95V - 230V	24V DC	2P - 2 Phase control 6 - 3 x RTD thermal sensors
	D - I: 208 - 600 Or 208 - 690	D - I: 115V or 230V		3M - Modbus 8 - Conformal coating
				3P - Profibus F115 - Fan unit 115VAC (A-C)
				3D - Devicenet F230 - Fan unit 230VAC (A-C)
				D - Remote key pad RU - Russian Language LCD
				4 - Insulation Protection ROC - Chinese Language LCD
				5 - Analog output

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IGEL® Electric GmbH

- A high-tech enterprise for best-in-class power electronics technology
- Leading technology through continuous field studies, development and testing
- Comprehensive portfolio of soft starters: low voltage and medium voltage units for general purpose as well as for demanding applications
- Engineering of industrial electronic motor control equipment

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