

ISA-D LOW VOLTAGE SOFT STARTERS



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APPLICATIONS

Industrial applications

- | Pumps
- | Hydraulic systems
- | Fans and blowers
- | Compressors
- | Conveyors

1000 V for mining applications

- | Pumps
- | Blowers
- | Conveyors

Marine and Offshore

- | Complete line 8–3500A, 220–1000V
- | Heavy duty, fully rated design
- | Robust construction
- | Generator ready – auto frequency tracking, enables motor starting at 45–65Hz
- | User friendly operation
- | Unique protection for corrosive environments

ADVANTAGES AT A GLANCE

- | Superior starting and stopping characteristics
- | Comprehensive motor protection package
- | Easy commissioning
- | Complete line 8–3500A, 220–1000V
- | Heavy duty design
- | Robust construction
- | Standard ambient temperature: 50°C
- | Unique optional features including:
 - Motor insulation tester
 - RS 485 Modbus/Profibus
 - Thermistor input/analogue output



DISPLAYS (LED'S)

- | LCD – 2 lines of 16 characters each
- | Selectable languages – English, German, French and Spanish
- | 8 LEDs for quick indication status
- | Two display modes for basic and advanced applications
- | Friendly operation with default parameters
- | Statistic data including: total run time, total number of starts, total number of trips, last start-current, last start time, last trip, current at trip

RELAY OUTPUT

- 3 programmable change-over contacts:
 - | Operation with adjustable on- and off delay
 - | End of acceleration– with adjustable time delay
 - | Fault, programmable as fail save connection
 - | Motor-isolation alarm

MOTOR AN STARTER PROTECTION

- | Too many starts
- | Shear Pin (start, run, jam)
- | Electronic overload with selectable curves
- | Under current
- | Phase loss and phase sequence
- | Under, over and no voltage
- | Load loss (motor not connected)
- | Starter over-temperature
- | External fault (input programmable)
- | SCR's protection by varistor

STARTING AND STOPPING

- | Soft start and soft stop
- | Current limit
- | Pump control program
- | Torque and Current Control for optimized starting and stopping process
- | Dual adjustments – two starting and stopping characteristics
- | Pulse start
- | Slow speed with electronic reversing
- | Linear acceleration (encoder feedback)
- | Energy save for improved power factor

OPTIONS

- | RS 485 Communication
- | Analogue output
- | Thermistor input
- | Motor insulation test
- | Preparation for bypass – to maintain protection when bypass is closed
- | Special anti-corrosive treatment – special coating for harsh environments
- | Illuminated LCD
- | Special encoder feedback
- | Remote display

KW at 400V	Starter Type (A)	Dimensions (mm)			Weight (kg)
		W	H	D	
4	ISA-D 8	153	310	170	4,5
7,5	ISA-D 17	153	310	170	4,5
15	ISA-D 31	153	310	217	6,0
22	ISA-D 44	153	310	217	7,5
30	ISA-D 58	153	310	217	7,5
37	ISA-D 72	153	310	217	7,5
45	ISA-D 85	274	385	238	14,5
55	ISA-D 105	274	385	238	14,5
75	ISA-D 145	274	385	238	14,5
90	ISA-D 170	274	385	238	14,5
110	ISA-D 210	380	455	292	32
160	ISA-D 310	380	455	292	32
200	ISA-D 390	380	455	292	32
250	ISA-D 460	380	555	292	39
315	ISA-D 580	470	655	302	48
450	ISA-D 820	470	710	302	54
525	ISA-D 950	623	660	290	65
630	ISA-D 1100	723	1100	361	170
800	ISA-D 1400	723	1100	361	170
950	ISA-D 1800	723	1100	361	170
1250	ISA-D 2150	750	1300	392	240
1350	ISA-D 2400	900	1300	410	350
1750	ISA-D 2700	900	1300	410	350
1850	ISA-D 3000	900	1300	410	350
2000	ISA-D 3500	900	1300	410	350

¹⁾ marine approval case by case