



Range 8–3500A and 200–1000V

APPLICATIONS ISA-D AND ISA-DS

Industrial applications

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

1000 V for mining applications

- | Pumps
- | Blowers
- | Conveyors



ISA-D

Digital soft starters
in heavy duty design



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

MOTOR AND STARTER PROTECTION

- | Compare to ISA-DS (p. 13)!

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 (tacho feedback)
- | Energy save for improved power factor

OPTIONS

- | RS 485 Communication (details p. 7)
- | Analogue output (details p. 10)
- | 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 tacho feedback
- | Remote display

RELAY OUTPUT

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

| 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 | 6,8 |
| 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 | 279 | 15 |
| 55 | ISA-D 105 | 274 | 385 | 279 | 15 |
| 75 | ISA-D 145 | 274 | 385 | 279 | 15 |
| 90 | ISA-D 170 | 274 | 385 | 279 | 15 |
| 110 | ISA-D 210 | 590 | 500 | 292 | 31 |
| 160 | ISA-D 310 | 590 | 500 | 292 | 31 |
| 200 | ISA-D 390 | 590 | 500 | 292 | 31 |
| 250 | ISA-D 460 | 623 | 660 | 290 | 65 |
| 315 | ISA-D 580 | 623 | 660 | 290 | 65 |
| 450 | ISA-D 820 | 623 | 660 | 290 | 65 |
| 525 | ISA-D 950 | 623 | 660 | 290 | 65 |
| 630 | ISA-D 1100 | 723 | 1100 | 370 | 170 |
| 800 | ISA-D 1400 | 723 | 1100 | 370 | 170 |
| 950 | ISA-D 1800 | 723 | 1100 | 370 | 170 |
| 1250 | ISA-D 2150 | 750 | 1300 | 392 | 235 |
| 1350 | ISA-D 2400 | 900 | 1300 | 360 | 350 |
| 1750 | ISA-D 2700 | 900 | 1300 | 360 | 350 |
| 1850 | ISA-D 3000 | 900 | 1300 | 360 | 350 |
| 2000 | ISA-D 3500 | 900 | 1300 | 360 | 350 |

¹⁾ case by case