

STADT DN SOFTSTARTER

Digital softstarter

Up to 4000 A, 200 - 1200 V



POWER TECHNOLOGY

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Heavy duty, full featured digital softstarter, incorporating superior startstop characteristics to provide solutions for the most demanding applications. Comprehensive motor protection package guarantees long term reliability, while the robust design ensures excellent performance in harsh environments.

Incorporating pump control program & slow-speed with electronic reversing. Including various marine and industrial standards. Ideal for severe and heavy duty marine and offshore applications.



Advantages at a glance

- Complete line 8 - 4000 A, 200 - 1200 V
- Heavy duty, fully rated design
- Robust construction
- Superior starting & stopping
- Comprehensive motor protection
- User friendly
- Line or inside delta connection
- Ambient temperature: 50°C
- **Options:**
 - Motor insulation tester
 - RS-485 Modbus, Profibus, TCP
 - Thermistor in / Analogue out
 - Tachometer input
 - Medium voltage to 15 kV
 - Marine class approvals

Motor & starter protection

- Too many starts
- Long start time (Stall)
- Shear-pin (Start+Run+Jam)
- Electronic overload
- Under current with delays
- Phase loss & sequence
- Under, over & no voltage
- Load loss
- Shorted SCR
- Starter over-temperature

Starting & stopping

- Soft start & soft stop
- Current Limit
- Unique Pump Control software
- Torque and Current Control
- Dual Adjustments
- Slow speed with reversing
- Pulse start
- Linear Acceleration (option)
- Energy Save for improved PF

Displays LCD & LEDs

- LCD-2 lines x 16 characters
- Selectable languages:
English, German, French & Spanish (Russian optional)
- Two display modes
(basic & advanced)
- Friendly operation
- Statistical Data
- Eight LEDs for status indication

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STADT DN SOFTSTARTER

380 - 400 - 440 V - Data sheet 2012



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- Power range** : Up to 2500 kW
- Voltage supply** : 380 - 440 V + 10% - 15%
- Frequency in** : 45 - 65 Hz
- Functions** :
 - LCD Display
 - Advanced motor protection
 - Communication RS 485 with MODBUS
 - Relay output for control of external bypass contactor
- Housing** : IP00
- Ambient temp** : 50 °C max

| 380 - 400 - 440 V | | | | | | | |
|-------------------|-------------------------------|-----------------|-----------------|--------|--------|--------|-----------|
| STADT Article nr. | Product name | AMP (nom) 40 °C | AMP (nom) 50 °C | B (mm) | H (mm) | D (mm) | Weight KG |
| 101658 | STADT DN 8-400-230-230-9-S | 17 | 8 | 153 | 310 | 170 | 4,5 |
| 101988 | STADT DN 17-400-230-230-9-S | 31 | 17 | 153 | 310 | 170 | 4,5 |
| 101989 | STADT DN 31-400-230-230-9-S | 44 | 31 | 153 | 310 | 217 | 6,8 |
| 101990 | STADT DN 44-400-230-230-9-S | 58 | 44 | 153 | 310 | 217 | 7,5 |
| 101991 | STADT DN 58-400-230-230-9-S | 72 | 58 | 153 | 310 | 217 | 7,5 |
| 101992 | STADT DN 72-400-230-230-9-S | 85 | 72 | 153 | 310 | 217 | 7,5 |
| 101993 | STADT DN 85-400-230-230-9-S | 105 | 85 | 274 | 370 | 279 | 15 |
| 101994 | STADT DN 105-400-230-230-9-S | 145 | 105 | 274 | 370 | 279 | 15 |
| 101995 | STADT DN 145-400-230-230-9-S | 170 | 145 | 274 | 370 | 279 | 15 |
| 101996 | STADT DN 170-400-230-230-9-S | 210 | 170 | 274 | 370 | 279 | 15 |
| 101997 | STADT DN 210-400-230-230-9-S | 310 | 210 | 380 | 455 | 292 | 31 |
| 101998 | STADT DN 310-400-230-230-9-S | 390 | 310 | 380 | 455 | 292 | 31 |
| 101999 | STADT DN 390-400-230-230-9-S | 460 | 390 | 380 | 455 | 292 | 31 |
| 102000 | STADT DN 460-400-230-230-9-S | 580 | 460 | 470 | 640 | 301 | 65 |
| 102001 | STADT DN 580-400-230-230-9-S | 650 | 580 | 470 | 640 | 301 | 65 |
| 102004 | STADT DN 650-400-230-230-9-S | 820 | 650 | 470 | 640 | 301 | 65 |
| 102005 | STADT DN 820-400-230-230-9-S | 950 | 820 | 623 | 660 | 290 | 65 |
| 102006 | STADT DN 950-400-230-230-9-S | 1100 | 950 | 623 | 660 | 290 | 65 |
| 102008 | STADT DN 1100-400-230-230-9-S | 1400 | 1100 | 723 | 1100 | 370 | 170 |
| 102009 | STADT DN 1400-400-230-230-9-S | 1800 | 1400 | 723 | 1100 | 370 | 170 |
| 102010 | STADT DN 1800-400-230-230-9-S | 2150 | 1800 | 723 | 1100 | 370 | 170 |
| 102011 | STADT DN 2150-400-230-230-9-S | 2400 | 2150 | 750 | 1300 | 392 | 235 |
| 102012 | STADT DN 2400-400-230-230-9-S | 2700 | 2400 | 900 | 1300 | 410 | 350 |
| 102013 | STADT DN 2700-400-230-230-9-S | 3000 | 2700 | 900 | 1300 | 410 | 350 |
| 102014 | STADT DN 3000-400-230-230-9-S | 3500 | 3000 | 900 | 1300 | 410 | 350 |
| 102021 | STADT DN 3500-400-230-230-9-S | 4000 | 3500 | 900 | 1300 | 410 | 350 |

- Optional 100 V control voltage

STADT DN SOFTSTARTER

690 V - Data sheet 2012



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- Power range** : 4000 kW
- Voltage supply** : 660 - 690 V + 10% - 15%
- Frequency in** : 45 - 65 Hz
- Functions** :
 - LCD Display
 - Advanced motor protection
 - Communication RS 485 with MODBUS
 - Relay output for control of external bypass contactor
- Housing** : IP00
- Ambient temp** : 50 °C max

| 500 - 660 - 690 V | | | | | | | |
|-------------------|-------------------------------|-----------------|-----------------|--------|--------|--------|-----------|
| STADT Article nr. | Product name | AMP (nom) 40 °C | AMP (nom) 50 °C | B (mm) | H (mm) | D (mm) | Weight KG |
| 101941 | STADT DN 8-690-230-230-9-S | 17 | 8 | 153 | 310 | 170 | 4,5 |
| 101942 | STADT DN 17-690-230-230-9-S | 31 | 17 | 153 | 310 | 170 | 4,5 |
| 101943 | STADT DN 31-690-230-230-9-S | 44 | 31 | 153 | 310 | 217 | 6,8 |
| 101944 | STADT DN 44-690-230-230-9-S | 58 | 44 | 153 | 310 | 217 | 7,5 |
| 101945 | STADT DN 58-690-230-230-9-S | 72 | 58 | 153 | 310 | 217 | 7,5 |
| 101946 | STADT DN 72-690-230-230-9-S | 85 | 72 | 153 | 310 | 217 | 7,5 |
| 101947 | STADT DN 85-690-230-230-9-S | 105 | 85 | 274 | 370 | 279 | 15 |
| 101948 | STADT DN 105-690-230-230-9-S | 145 | 105 | 274 | 370 | 279 | 15 |
| 101949 | STADT DN 145-690-230-230-9-S | 170 | 145 | 274 | 370 | 279 | 15 |
| 101950 | STADT DN 170-690-230-230-9-S | 210 | 170 | 274 | 370 | 279 | 15 |
| 101951 | STADT DN 210-690-230-230-9-S | 310 | 210 | 380 | 455 | 292 | 31 |
| 101952 | STADT DN 310-690-230-230-9-S | 390 | 310 | 380 | 455 | 292 | 31 |
| 101953 | STADT DN 390-690-230-230-9-S | 460 | 390 | 380 | 455 | 292 | 31 |
| 101954 | STADT DN 460-690-230-230-9-S | 580 | 460 | 470 | 640 | 301 | 65 |
| 101955 | STADT DN 580-690-230-230-9-S | 650 | 580 | 470 | 640 | 301 | 65 |
| 101956 | STADT DN 650-690-230-230-9-S | 820 | 650 | 470 | 640 | 301 | 65 |
| 101957 | STADT DN 820-690-230-230-9-S | 950 | 820 | 623 | 660 | 290 | 65 |
| 101958 | STADT DN 950-690-230-230-9-S | 1100 | 950 | 623 | 660 | 290 | 65 |
| 101959 | STADT DN 1100-690-230-230-9-S | 1400 | 1100 | 723 | 1100 | 370 | 170 |
| 101960 | STADT DN 1400-690-230-230-9-S | 1800 | 1400 | 723 | 1100 | 370 | 170 |
| 101961 | STADT DN 1800-690-230-230-9-S | 2150 | 1800 | 723 | 1100 | 370 | 170 |
| 101962 | STADT DN 2150-690-230-230-9-S | 2400 | 2150 | 750 | 1300 | 392 | 235 |
| 101963 | STADT DN 2400-690-230-230-9-S | 2700 | 2400 | 900 | 1300 | 410 | 350 |
| 101964 | STADT DN 2700-690-230-230-9-S | 3000 | 2700 | 900 | 1300 | 410 | 350 |
| 101965 | STADT DN 3000-690-230-230-9-S | 3500 | 3000 | 900 | 1300 | 410 | 350 |
| 102015 | STADT DN 3500-690-230-230-9-S | 4000 | 3500 | 900 | 1300 | 410 | 350 |

- Optional 100 V control voltage

STADT DN SOFTSTARTER

1000 V and 1200 V - Data sheet 2012



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- Power range** : Up to 600 kW
- Voltage supply** : 1000 or 1200 V + 10% - 15%
- Frequency in:** : 45 - 65 Hz
- Functions** :
 - LCD Display
 - Advanced motor protection
 - Communication RS 485 with MODBUS
 - Relay output for control of external bypass contactor
- Housing** : IP00
- Ambient temp** : 50 °C max

1000 V

| STADT Article nr. | Product name | AMP (nom) 50 °C | B (mm) | H (mm) | D (mm) | Weight KG |
|-------------------|-------------------------------|-----------------|--------|--------|--------|-----------|
| 101460 | STADT DN 105-1000-230-230-9-S | 105 | 325 | 425 | 300 | 17 |
| 101846 | STADT DN 170-1000-230-230-9-S | 170 | 325 | 425 | 300 | 17 |
| 101847 | STADT DN 210-1000-230-230-9-S | 210 | 592 | 500 | 345 | 33 |
| 101848 | STADT DN 310-1000-230-230-9-S | 310 | 592 | 500 | 345 | 33 |
| 101968 | STADT DN 390-1000-230-230-9-S | 390 | 592 | 500 | 345 | 33 |
| 101969 | STADT DN 460-1000-230-230-9-S | 460 | - | - | - | 67 |

- Optional 100 V control voltage

1200 V

| STADT Article nr. | Product name | AMP (nom) 50 °C | B (mm) | H (mm) | D (mm) | Weight KG |
|-------------------|-------------------------------|-----------------|--------|--------|--------|-----------|
| 102016 | STADT DN 170-1200-230-230-9-S | 170 | 325 | 425 | 300 | 17 |
| 102017 | STADT DN 210-1200-230-230-9-S | 210 | 592 | 500 | 345 | 33 |
| 102018 | STADT DN 310-1200-230-230-9-S | 310 | 592 | 500 | 345 | 33 |
| 102019 | STADT DN 390-1200-230-230-9-S | 390 | 592 | 500 | 345 | 33 |
| 102020 | STADT DN 460-1200-230-230-9-S | 460 | - | - | - | 67 |

- Optional 100 V control voltage