

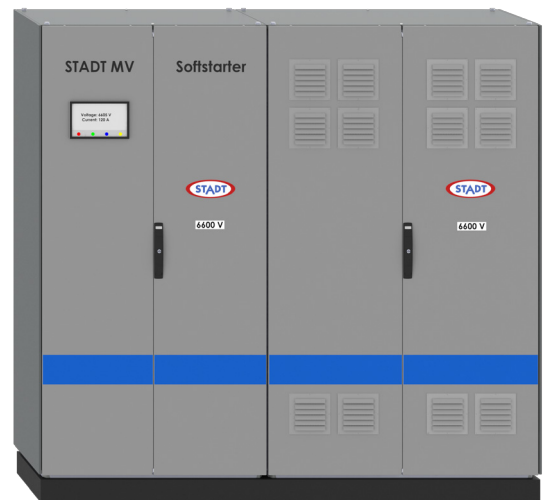
STADT MV-DN Sofstarter

For medium voltage AC motors



Digital controlled starter for electric motors.
Suitable for smooth start of thrusters, fans, pumps and compressors.

Power range	: Up to 50 MW
Voltage	: 1000 V, 2300 V, 3300 V, 4160 V, 6600 V, 7200 V, 10 kV, 11 kV, 13 kV, 15 kV
Overload ratings	: 500 % - 60 Seconds, 600 % - 30 Seconds
Input frequency	: 45-65 Hz
Current ramp	: Adjustable
Current limiting	: Adjustable
Control type	: Voltage / Current
Control software	: For standard AC motors For synchronous motors
Protection	: IP32
Ambient conditions	: 0 - 50 ° C 5 - 95 % relative humidity 0 - 1000 m above sea level
Cooling	: Air
Mounting	: Floor
Control	: Local / system interface



Technical features

Fully rated Vacuum Bypass contactor for increased thermal capacity
6 fully programmable relays (including fail-safe operation)
RS232 with windows interface
RS485 with Modbus RTU interface
Motor fuses with blown fuse indicators
Visible grounding bar for safe operation

STADT AS

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Options

Ship classified
Vibration dampers
IP54 enclosure
Multi-motor-start
Special customer requests

STADT MV-DN Sofstarter

Datasheet 2012



This advanced, micro-processor controlled through fiber optic links, Medium Voltage soft starter is designed for use with standard asynchronous and synchronous motors.

The MV-DN is a highly sophisticated digital soft starter which ensures smooth, stepless acceleration and deceleration, eliminating current and mechanical shocks to the motor and load.



Advantages at a Glance:

- User friendly setup and operation
- Range 2300 – 15000 V, up to 50 MW
- Sophisticated motor protection package
- Fibre optic voltage measurement system
- Unique starting & stopping characteristics
- Wide 45–65Hz Auto-tracking frequency range
- Heavy duty design at 50°C ambient temperature
- Advanced Electronic Potential Transformer utilizing
- Unique synchronous motor starting module available
- Complete isolation between MV and LV compartments
- Each starter is Partial Discharge tested according to EN50178/625.1
- Communication options including: MODBUS, MODBUS TCP, PROFIBUS, and more

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POWER TECHNOLOGY

System Voltage	Starter Current	Motor kW	Motor HP	IP 00 (Chassis Version)			IP 31 - 67				IP 31 with L+BP contactors
				Dimensions (mm) & Weight			Dimensions (mm) & Weight				
				W	H	D	(Kg)	W	H	D	
2300	60	200	260	660	550	470	90	900	2300	1000	500
	110	360	480	660	550	470	90	900	2300	1000	500
	200	660	880	660	550	470	90	900	2300	1000	500
	320	1.060	1.420	660	550	470	130	900	2300	1000	530
	400	1.330	1.770	660	800	490	160	900	2300	1000	570
	600	2.000	2.700	660	800	490	200	900	2300	1000	650
	800	2.660	3.600	900	1120	620	350	1100	2300	1100	1050
1000	3.330	4.500	900	1120	620	450	1100	2300	1100	1100	
3300	60	280	380	660	900	470	140	900	2300	1000	550
	110	520	700	660	900	470	140	900	2300	1000	550
	200	950	1.300	660	900	470	140	900	2300	1000	550
	320	1.530	2.050	660	900	470	140	900	2300	1000	550
	400	1.910	2.600	660	1000	470	200	900	2300	1000	650
	600	2.850	3.900	660	1000	470	250	900	2300	1000	650
	800	3.820	5.200	900	1120	620	400	1100	2300	1100	900
1000	4.780	6.500	900	1120	620	400	1100	2300	1100	1100	
4160	60	360	490	660	900	470	140	900	2300	1000	550
	110	660	880	660	900	470	140	900	2300	1000	550
	200	1.200	1.600	660	900	470	140	900	2300	1000	550
	320	1.930	2.570	660	900	470	150	900	2300	1000	560
	400	2.410	3.210	660	1000	470	180	900	2300	1000	620
	600	3.610	4.900	660	1000	470	195	900	2300	1000	650
	800	4.820	6.500	900	1120	620	450	1100	2300	1100	1050
1000	6.030	8.200	900	1120	620	500	1100	2300	1100	1100	
6600	70	670	900	900	1030	570	250	1100	2300	1100	850
	140	1.340	1.800	900	1030	570	250	1100	2300	1100	850
	250	2.390	3.200	900	1030	570	250	1100	2300	1100	850
	300	2.870	3.900	900	1120	580	300	1100	2300	1100	900
	400	3.820	5.200	900	1120	580	300	1100	2300	1100	900
	500	4.780	6.500	900	1120	620	300	1100	2300	1100	900
	700	6.740	9.100	1200	1200	713	450	1400	2300	1200	1150
	800	7.650	10.400	1200	1200	713	550	1400	2300	1200	1250
	1000	9.570	13.000	1200	1200	713	650	1400	2300	1200	1350
1200	11.500	15.600	1200	1200	713	650	1400	2300	1400	1350	
10.000	70	1.020	1.360	1136	1370	640	785	2600	2300	1200	2100
	140	2.040	2.720	1136	1370	640	785	2600	2300	1200	2100
	250	3.650	4.900	1136	1370	640	785	2600	2300	1200	2100
	300	4.300	5.900	1136	1370	640	810	2600	2300	1200	2100
	400	5.800	7.900	1136	1370	640	850	2600	2300	1200	2100
	700	10.150	13.800	1500	1700	750	1200	3500	2400	1400	2500
	800	11.600	15.800	1500	1700	750	1200	3500	2400	1400	2500
	1000	14.500	19.700	1500	1700	750	1500	3500	2400	1400	2800
1200	17.400	23.700	1500	1700	750	1500	3500	2400	1400	2800	
11.000	70	1.100	1.500	1136	1370	640	800	2600	2300	1200	2100
	140	2.200	3.000	1136	1370	640	800	2600	2300	1200	2100
	250	4.000	5.400	1136	1370	640	800	2600	2300	1200	2100
	300	4.800	6.500	1136	1370	640	830	2600	2300	1200	2100
	400	6.400	8.650	1136	1700	640	870	2600	2300	1200	2100
	700	11.200	15.200	1500	1700	750	900	3500	2400	1400	2700
	800	12.800	17.300	1500	1700	750	950	3500	2400	1400	2700
	1000	16.000	21.700	1500	1700	750	1000	3500	2400	1400	2800
1200	19.200	26.000	1500	1700	750	1000	3500	2400	1400	2800	
13.800	70	1.400	1.900	1136	1700	640	900	3000	2400	1200	2800
	140	2.800	3.800	1136	1700	640	900	3000	2400	1200	2800
	250	5.000	6.800	1136	1700	640	900	3000	2400	1200	2800
	300	6.000	8.150	1136	1700	640	950	3000	2400	1200	2800
	400	8.000	10.900	1136	1700	640	1000	3000	2400	1200	2800
	700	14.000	19.000	3000	1400	750	1150	4200	2400	1400	2900
	800	16.000	21.800	3000	1400	750	1150	4200	2400	1400	2900
	1000	20.000	27.200	3000	1400	750	1400	4200	2400	1400	3100
1200	24.000	32.700	3000	1400	750	1500	4200	2400	1400	3100	
15.000	70	1.500	2.000	1136	1900	640	950	3000	2500	1200	3150
	140	3.000	4.100	1136	1900	640	950	3000	2500	1200	3150
	250	5.400	7.400	1136	1900	640	950	3000	2500	1200	3150
	300	6.500	8.800	1136	1900	640	1000	3000	2500	1200	3200
	400	8.700	11.800	1136	1900	640	1050	3000	2500	1200	3250
	700	15.200	20.700	3000	1500	750	1300	4200	2500	1400	4100
	800	17.400	23.700	3000	1500	750	1300	4200	2500	1400	4100
	1000	21.800	29.600	3000	1500	750	1700	4200	2500	1400	4200
1200	26.150	35.500	3000	1500	750	1700	4200	2500	1400	4200	

■ Larger models on special request