

SIRIUS 3RW Soft Starters

3RW44 for High Feature Applications

3RW44

More information

Application examples for normal starting (CLASS 10)

Normal starting CLASS 10 (up to 20 s with 350% $I_{n \text{ motor}}$, one start per hour)

You can select a power rating of the soft starter that is just as high as the power rating of the motor used

Application		Conveyor belts	Roller conveyors	Compressors	Small fans ¹⁾	Pumps	Hydraulic pumps
Startup parameters							
• Voltage ramp and current limiting							
- Start voltage	%	70	60	50	30	30	30
- Starting time	s	10	10	10	10	10	10
- Current limit value		deactivated	deactivated	$4 \times I_M$	$4 \times I_M$	deactivated	deactivated
• Torque ramp							
- Start torque		60	50	40	20	10	10
- Final torque		150	150	150	150	150	150
- Starting time		10	10	10	10	10	10
• Breakaway pulse		Deactivated (0 ms)	Deactivated (0 ms)	Deactivated (0 ms)	Deactivated (0 ms)	Deactivated (0 ms)	Deactivated (0 ms)
Stopping mode							
		Soft stop	Soft stop	Coasting down	Coasting down	Pump stop	Coasting down

Application examples for heavy starting (CLASS 20)

Heavy starting CLASS 20 (up to 40 s with 350% $I_{n \text{ motor}}$, one start per hour)

The performance class of the soft starter must be one class higher than that of the motor used

Application		Agitators	Centrifuges	Milling machines
Startup parameters				
• Voltage ramp and current limiting				
- Start voltage	%	30	30	30
- Starting time	s	30	30	30
- Current limit value		$4 \times I_M$	$4 \times I_M$	$4 \times I_M$
• Torque ramp				
- Start torque		30	30	30
- Final torque		150	150	150
- Starting time		30	30	30
• Breakaway pulse		Deactivated (0 ms)	Deactivated (0 ms)	Deactivated (0 ms)
Stopping mode				
		Coasting down	Coasting down	Coasting down or DC braking

Application examples for very heavy starting (CLASS 30)

Very heavy starting CLASS 30 (up to 60 s with 350% $I_{n \text{ motor}}$, one start per hour)

The performance class of the soft starter must be two classes higher than that of the motor used

Application		Large fans ²⁾	Mills	Crushers	Circular saws/band saws
Startup parameters					
• Voltage ramp and current limiting					
- Start voltage	%	30	50	50	30
- Starting time	s	60	60	60	60
- Current limit value		$4 \times I_M$	$4 \times I_M$	$4 \times I_M$	$4 \times I_M$
• Torque ramp					
- Start torque		20	50	50	20
- Final torque		150	150	150	150
- Starting time		60	60	60	60
• Breakaway pulse		Deactivated (0 ms)	80%, 300 ms	80%, 300 ms	Deactivated (0 ms)
Stopping mode					
		Coasting down	Coasting down	Coasting down	Coasting down

¹⁾ The mass inertia of the fan is $<10 \times$ the mass inertia of the motor.

²⁾ The mass inertia of the fan is $\geq 10 \times$ the mass inertia of the motor.

Note:

The set values and device dimensions in these tables are examples only. They are merely provided for information purposes and are not binding. The actual settings depend on the application and must be optimized when the equipment is commissioned.

If applicable, the soft starter dimensioning should be checked using the Win-Soft Starter program or by Technical Assistance.