

SIRIUS 3RW Soft Starters

General data

Selection aid for soft starters



Application	SIRIUS 3RW30 Standard applications	SIRIUS 3RW40 Standard applications	SIRIUS 3RW44 High-Feature applications
Normal starting (CLASS 10)			
Pumps	●	●	●
Pumps with special pump ramp-down (to prevent water hammer)			●
Heat pumps	●	●	●
Hydraulic pumps	○	●	●
Presses	○	●	●
Conveyor belts	○	●	●
Roller conveyors	○	●	●
Screw conveyors	○	●	●
Escalators		●	●
Piston compressors		●	●
Screw compressors		●	●
Small fans ¹⁾		●	●
Centrifugal blowers		●	●
Bow thrusters		●	●
Heavy starting (CLASS 20)			
Stirrers		○	●
Extruders		○	●
Lathes		○	●
Milling machines		○	●
Very heavy starting (CLASS 30)			
Large fans ²⁾			●
Circular saws/bandsaws			●
Centrifuges			●
Mills			●
Breakers			●

● Recommended soft starter

○ Possible soft starter

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

²⁾ The mass inertia of the fan is ≥10 times the mass inertia of the motor.

Boundary conditions

Type	Maximum starting time	Current loading	Starts per hour
	s	%	1/h
Normal starting (CLASS 10)			
• 3RW30	3	300	20
• 3RW40/44	10	300	5
Heavy starting (CLASS 20)			
• 3RW402., 3RW403., 3RW404.	20	300	5
• 3RW405., 3RW407., 3RW44	40	350	1
Very heavy starting (CLASS 30)			
• 3RW44	60	350	1

The motor ratings listed in the Selection and Ordering Data are rough guide values. The soft starter should always be designed on the basis of the required rated operational current of the motor. 3RW soft starters are designed for easy starting conditions. In case of additional requirements, it may be necessary to choose a larger device. In some cases, however, the safety margins taken into account in the selection also permit the listed units to be used in boundary conditions which are slightly more demanding. Detailed technical information for a configuration which is tailored exactly to the application see "Manuals":
<http://support.automation.siemens.com/WW/view/en/38752095>
<http://support.automation.siemens.com/WW/view/en/21772518>

For the configuration of soft starters for motors with high starting current conditions (typically $I/I_e \geq 8$), we recommend consulting our Siemens Technical Assistance
 Tel.: +49 911 895-5900
 E-mail: technical-assistance@siemens.com

Motor rating data in kW and hp are based on IEC 60947-4-1.