

SIZING AN SR35 SOFT STARTER

Table of Contents												
Appendix C: Sizing an SR35 Soft Starter.	 			 					 , .		C	-1
SR35 Soft Starter Selection Steps	 			 					 		C	



SR35 SOFT STARTER SELECTION STEPS

	SR35			
		Standard Duty	Medium Duty	Heavy Duty
		Agitator	Compressor - Centrifugal	Crusher
		Compressor - Rotary Vane	Compressor - Reciprocating	Shredder
		Compressor - Unloaded	Compressor - Rotary Screw	Wood Chipper
		Bow Thruster - Zero Pitch	Ball Mill	Fan - High Inertia or >85A
		Fan - Low Inertia or <85A	Bow Thruster - Loaded	-
		Feeder - Screw	Conveyor - Loaded	-
		Lathe Machines	Grinder	-
		Mixer - Unloaded	Hammer Mill	-
		Molding Machine	Mills - Flour etc.	-
Step 1 - Select the application from the	Typical Applications	Plastic and Textile Machines	-	
list and follow that column down.		Pump - Submersible; Centrifugal	Pelletizers	-
		Pump - Submersible; Rotodynamic	Press, Flywheel	-
		Saw - Band	Positive Displacement Pump; Reciprocating	-
		Transformers	Positive Displacement Pump; Rotary	-
		Voltage Regulators	Pump Jack	-
		-		
		-	Roots Blower	-
		-	Saw - Circular	-
		-	Screen - Vibrating	-
		-	Tumblers	-

								SR35											
									ip Class	Trip Class 10	Trip Class 20	Trip Class 30							
Step 2 - Confirm the rated starting capability of the soft starter against the							Ra	3x Motor Current - 23s 3.5x Motor Current - 17s	4x Motor Current - 19s	4x Motor Current - 29s									
application.								Мах	Starts p	er Hour	5 starts/hour	5 starts/hour	5 starts/hour						
					Max St	arts per	Hour w	40 starts/hour	40 starts/hour	40 starts/hour									
Step 3 - Consider the operating							ŀ	leight A	Above Se	ea Level	motor Amps/kW by 1	eight is 1000m, for ever % up to 2000m. otor at 1500m, make m							
environment and make the model selection on a higher amp rating.							0	perating	Standard operating temperature is 40degC, for every 1°C above, increase motor Amps/kW by 2%, up to 60°C. Example: For a 20A motor at 50°C make model selection based on 24A (20% higher).										
							Inc	reased :	Starts p	er Hour	Fit optional fan to increase maximum up to 40 starts per hour.								
					Motor	Rating			Select Model	Select Model									
	l _e A	230V	400V	500V	FLA A	200V	208V	Hp 220- 240V	440- 480V	550- 600V	5 starts/hour @ 40°C	5 starts/hour @ 40°C	5 starts/hour @ 40°C						
	17	4	7.5	7.5	17	3	5	5	10	15	SR35-017	SR35-022	SR35-027						
	22	5.5	11	11	22	5	5	7.5	15	20	SR35-022	SR35-027	SR35-034						
	29	7.5	15	15	27	7.5	7.5	7.5	20	25	SR35-027	SR35-034	SR35-041						
	35	7.5	18.5	22	34	10	10	10	25	30	SR35-034	SR35-041	SR35-052						
Step 4 - Select your	41	11	22	22	41	10	10	10	30	40	SR35-041	SR35-052	SR35-065						
motor Voltage and	55	15	30	37	52	15	15	15	40	50	SR35-052	SR35-065	SR35-077						
Horsepower/kW and	66	18.5	37	45	65	20	20	20	50	60	SR35-065	SR35-077	SR35-100						
select model.	00	22	45	55	77	20	25	25	60	75	SR35-077	SR35-100	SR35-125						
select model.	80	22											1						
select model.	106	30	55	75	100	30	30	30	75	100	SR35-100	SR35-125	SR35-156						
select model.			55 75	75 90	100 125	30 40	30 40	30 40	75 100	100 125	SR35-100 SR35-125	SR35-125 SR35-156	SR35-156 SR35-192						
select model.	106	30											<u> </u>						
select model.	106 132	30 37	75	90	125	40	40	40	100	125	SR35-125	SR35-156	SR35-192						
select model.	106 132 160	30 37 45	75 90	90 110	125 156	40 50	40 50	40	100 125	125 150	SR35-125 SR35-156	SR35-156 SR35-192	SR35-192 SR35-242*						
select model.	106 132 160 195	30 37 45 55	75 90 110	90 110 132	125 156 192	40 50 60	40 50 60	40 60 60	100 125 150	125 150 200	SR35-125 SR35-156 SR35-192	SR35-156 SR35-192 SR35-242*	SR35-192 SR35-242* SR35-302*						

Page C-3 Stellar® SR35 Series Soft Starter User Manual – 1st Ed, Rev D – 12/15/2023