

Digital Soft-Start

9-900A, 208-575V



Introducing the newest member to Baldor's line of controls for induction motors – the Digital Soft-Start control. This new controller combines the simplicity of a 6 SCR three phase voltage regulator with the most adaptable soft starting techniques available.

Application software senses changing load conditions and adapts to increase performance. Power factor optimization eliminates motor over-fluxing and allows under-loaded or over-sized motors to operate more efficiently.

The Digital Soft-Start control features include microprocessor logic, NEMA Type 1 enclosure, and alphanumeric English language keypad display.

Benefits of Baldor Digital Soft-Start control include:

- Reduced wear on mechanical gears, chains and sprockets, and unexpected repair of broken belts and jammed gearboxes.
- Lower inventory of spare mechanical parts and operating costs.
- Increased production rates by reducing machine maintenance downtime.
- Prolonged life of electrical switchgear with lower inrush currents.
- Soft stops on pumping applications, reduce piping system stresses and “hammer” effect.
- Energy optimizing reduces motor energy losses when operating motor below maximum capacity.

BALDOR®

Digital Soft-Start

9 through 900 Amps 208-460V 50/60Hz

9 through 900 Amps 208-575V 50/60Hz



Features:

- Microprocessor control
- Voltage ramp and current limit starting
- 6 SCR three phase switching
- Keypad setup

- Motor protective functions
- NEMA Type 1 enclosure
- 40 deg C ambient temperature
- Power factor optimization
- Sizing Software-Visit Product Support on www.baldor.com

MOTOR APPLICATION HORSEPOWER @ 10 STARTS PER HOUR MAXIMUM												SOFT START CONTROL			
Standard Duty				Medium Duty				Heavy Duty				208/230/460 VOLT CATALOG NUMBER	230/460/575 VOLT CATALOG NUMBER	CONTINUOUS CURRENT OUTPUT AMPS	SIZE
400% Motor FLA @ 6 Sec. 300% Motor FLA @ 35 Sec.				400% Motor FLA @ 12 Sec. 300% Motor FLA @ 60 Sec.				400% Motor FLA @ 35 Sec. 300% Motor FLA @ 80 Sec.							
208V	230V	460V	575V	208V	230V	460V	575V	208V	230V	460V	575V				
		5	7.5			5	5					MD7-009-CB	MD8-009-CB	9	1
3	5	10	10			7.5	7.5			5	5	MD7-016-CB	MD8-016-CB	16	1
5	7.5	15	20		5	10	10			7.5	7.5	MD7-023-CB	MD8-023-CB	23	1
7.5	10	20	25	5	7.5	15	20			10	10	MD7-030-CB	MD8-030-CB	30	1
10	15	30	40	7.5	10	20	30		5	15	20	MD7-044-CB	MD8-044-CB	44	1
15	20	40	50	10	15	30	40	5	7.5	20	30	MD7-059-CB	MD8-059-CB	59	1
20	25	50	60	15	15	40	50	7.5	10	30	40	MD7-072-CB	MD8-072-CB	72	1
25	30	60	75	15	20	50	60	10	15	40	50	MD7-085-CB	MD8-085-CB	85	1
30	40	75	100	20	30	60	75	15	20	50	60	MD7-105-CB	MD8-105-CB	105	1
40	50	100	125	30	40	75	125	20	30	60	100	MD7-146-CB	MD8-146-CB	146	1
50	60	125	150	40	50	100		30	40	75		MD7-174-CB	MD8-174-CB	174	2
60	75	150	200	50	60	125	150	40	50	100	125	MD7-202-CB	MD8-202-CB	202	2
75	100	200	250	60	75	150	200	50	60	125	150	MD7-242-CB	MD8-242-CB	242	2

MOTOR APPLICATION HORSEPOWER @ 3 STARTS PER HOUR MAXIMUM												SOFT START CONTROL			
Standard Duty				Medium Duty				Heavy Duty				208/230/460 VOLT CATALOG NUMBER	230/460/575 VOLT CATALOG NUMBER	CONTINUOUS CURRENT OUTPUT AMPS	SIZE
400% Motor FLA @ 6 Sec. 300% Motor FLA @ 35 Sec.				400% Motor FLA @ 12 Sec. 300% Motor FLA @ 60 Sec.				400% Motor FLA @ 35 Sec. 300% Motor FLA @ 80 Sec.							
208V	230V	460V	575V	208V	230V	460V	575V	208V	230V	460V	575V				
100	125	250	250	75	100	200		60	75	150		MD7-300-CB	MD8-300-CB	300	2
125	150	300	300	100	125	250	250	75	100	200		MD7-370-CB	MD8-370-CB	370	2
150	200	400	400	125	150	300	300	100	125	250	300	MD7-500-CB	MD8-500-CB	500	3
200		500	500	150	200	400	400	125	150	300	400	MD7-600-CB	MD8-600-CB	600	3
		600	600	200		500	500	150	200	400	500	MD7-750-CB	MD8-750-CB	750	3
		700	700			600	600	200		-500	600	MD7-900-CB	MD8-900-CB	900	3

Typical Applications

Standard Duty

- Agitator
- Axial Blower
- Axial Fan
- Band Saw
- Centrifugal Pump
- Chiller
- Escalator
- Light Material Conveyor
- Low Inertia Fan
- Propeller Fan
- Unloaded Screw Compressor
- Small Pump

Medium Duty

- Ball Mill
- Circular Saw
- Conveyor
- Drilling Press
- Elevator
- Flour Mill
- Flywheel Press
- Grinder
- Hammer Press
- Heavy Material Conveyor
- High Inertia Fan
- Large Pump
- Mill
- Mixer
- Pelletizer
- Positive Displacement Pump
- Pulper
- Reciprocating Compressor
- Screw Feeder
- Vibrating Screen

Heavy Duty

- Centrifugal Blower
- Centrifugal Fan
- Chipper
- Disintegrator
- Loaded Centrifuge
- Loaded Mixer
- Loaded Reciprocating Compressor
- Loaded Screw Compressor
- Pulverizer
- Rock Crusher
- Separator

Custom Product Capabilities

Available in custom versions including: combination and non-combination controllers, indoor NEMA 12 enclosures with bypass contactor, outdoor enclosures — ventilated NEMA 3R and NEMA 4 with bypass. Soft starters up to 1800A and up to 575V are also available. Contact Baldor for price and delivery information.

