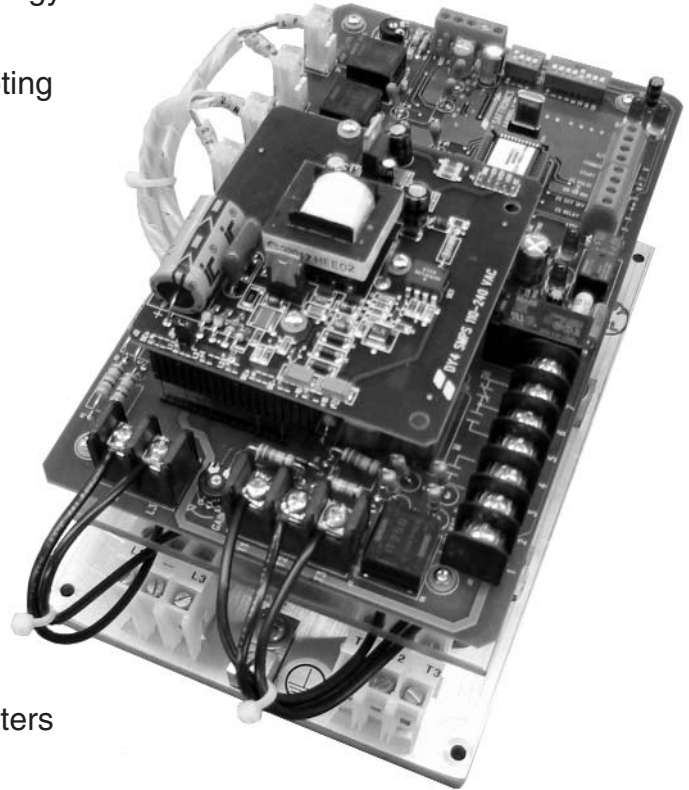


DY4 Plus

Solid State AC Induction Motor Brakes

- 7 models cover entire voltage and horsepower range
- Common control board on all 7 models
- Switchmode power supply for stable control power
- Digital control utilizing surface mount technology for compact reliability
- LED diagnostics for set-up and trouble-shooting
 - Control Power ON
 - Motor ON
 - Brake ON
 - Zero speed pulse
- Electronic zero speed sensing requires no additional equipment
- Selectable override of zero speed detect for timed braking
- Digital back-up timer for accurately repeatable braking time
- Closed loop current feedback for accurate repeatability of braking current
- Simple interconnection with most motor starters
- Generously sized SCR's with minimum 1600 V PIV rating
- Full-wave control
 - This is a unique Safronics feature that provides up to 30% more braking torque, for the same amount of AC current, than most conventional electronic braking packages which use a circuit consisting of a single SCR & free wheeling diode.



(For additional information see Technical Description P/N 027-3033)

Eliminate machine coasting hazards and control vibration
Meet ANSI safety codes

Solid State AC Induction Motor Brakes

DRIVES FOR EVERY INDUSTRY

DY4 Plus units can be applied to any starter, including Safronics AS6 Series Solid-State Starters. Installation is simple and fast. Only four power wires are needed, plus five interconnecting leads to the existing starter.

ADJUSTMENTS

- Braking Current: 33-200% Brake Rating
- Backup Timer: 1-255 seconds via DIP switch
- Zero speed hold time: 0-7.5 seconds (delays release of brake after zero speed is sensed) via DIP switch

PROTECTION FEATURES

- Large MOV surge suppressors protect each SCR
- R-C Snubber networks prevent false triggering

DIMENSIONS

SIZE	DIMENSIONS	CHASSIS	NEMA 12
15	H x W x D In.	9.5 x 6.25 x 5.25	16 x 14 x 12
	H x W x D mm	241 x 159 x 133	406 x 356 x 254
	Lbs. kg	7 Lbs. 2.3 kg	32 Lbs. 14.5 kg
40	H x W x D In.	10 x 7.5 x 6	16 x 14 x 10
	H x W x D mm	254 x 190 x 152	406 x 356 x 254
	Lbs. kg	8 Lbs. 3.6 kg	33 Lbs. 15.0 kg
125	H x W x D In.	13 x 7.5 x 7	24 x 20 x 12
	H x W x D mm	330 x 190 x 178	609 x 508 x 305
	Lbs. kg	17 Lbs. 7.7 kg	72 Lbs. 32.7 kg
180	H x W x D In.	15.25 x 14 x 10	30 x 24 x 16
	H x W x D mm	387 x 356 x 254	762 x 609 x 406
	Lbs. kg	35 Lbs. 15.9 kg	115 Lbs. 52.2 kg
480	H x W x D In.	20 x 17 x 12.5	36 x 30 x 16
	H x W x D mm	508 x 432 x 317	914 x 762 x 406
	Lbs. kg	54 Lbs. 24.5 kg	175 Lbs. 80 kg

SPECIFICATIONS

Power ranges	3-700 HP (2.2 - 500 kW)
Line Voltage	200-600 VAC
Line Frequency	45-65 Hz
Ambient Temperature	10-40°C (operating)
Control Voltage	120 VAC 45-65 Hz (50VA)
Overload Capacity	200% for 60 seconds
"Brake ON" Relay	Form C contact rated 5A 220 VAC
Zero Speed Output	Open Collector 24 VDC 50 mA
Zero Speed Pulse	Open Collector 24 VDC 50 mA

HORSEPOWER RATINGS (GENERAL PURPOSE)

MODEL	HP RATING				
	208 V	230 V	380 / 415 V	460 V	575 V
DY4 - 15 PLUS	3	5	7.5	10	15
DY4 - 40 PLUS	10	15	25	30	40
DY4 - 75 PLUS	20	25	50	50	75
DY4 - 125 PLUS	40	50	75	100	125
DY4 - 180 PLUS	60	75	125	150	200
DY4 - 480 PLUS	150	200	350	400	500
DY4 - 720 PLUS	250	300	500	600	700

