

dcM6/M12+



Digital DC Drives

- Non-Regenerative Model (dcM6+)
- Regenerative Model (dcM12+)
- Heavy Duty Overload (150% / 1 Minute)
- Microprocessor-Based DC Drives
- Available to 2000 HP
- Compact Footprint
- Serial Communication (RS-485 Modbus)
- Programmable I/O
- CE Marked / UL Pending
- Two Stage Current Limit
- Encoder Feedback + PG Loss Protection
- Built-In Field Regulator with Field Loss Protection
- Field Economy and Forcing are Standard
- Phase Rotation Insensitive
- Saflink Compatible
- English Keypad, Remote-Mountable

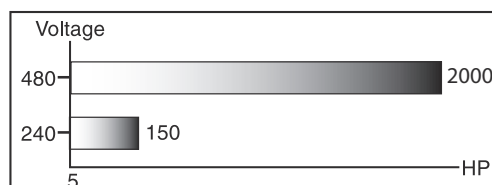


SAFLINK



SPECIFICATIONS

Item	Description
Speed Range	25:1 Armature 50:1 DC Tach 100:1 Encoder Feedback
Speed Accuracy	Armature 2% DC Tach (5PY) 1% Encoder 0.01%
Overload Capacity	150% rated output current for 1 minute
Voltage Fluctuation	+10%, -15%
Frequency Fluctuation	±15%
Analog Speed Setting	0.025% Resolution
Digital Inputs	6 Programmable 2 Fixed (Start / Enable)
Analog Inputs	3 Programmable (±10 Vdc) 1 (±10 Vdc or 4-20 mA) 1 Fixed (±10 Vdc / 4-20 mA)
Analog Outputs	2 Programmable (±10 Vdc or 4-20 mA) 2 Fixed (Armature Volts (Speed) / Armature Current ±10 Vdc)
Digital Outputs	5 Programmable Form "A" Contacts



The NEW Standard in “SYSTEMS” Drives

RATINGS

dcM12 ⁺ DIGITAL REGEN 240 VOLT							
HP	AMPS	Part Number (M12)	Fig.	Dimensions (in inches)			Weight (lbs.)
				H	W	D	
5	20	2005	1	17.6	8.6	9.8	30
7.5	29	27P5					
10	38	2010					
15	55	2015					
20	72	2020					
25	89	2025					
30	106	2030					
40	140	2040					33
50	175	2050					
60	212	2060					
75	255	2075					
100	341	2100					
125	425	2125	2	26.5	22.5	15	275
150	506	2150					
900 HP and Higher Consult Factory							

dcM6 ⁺ DIGITAL NON-REGEN 240 VOLT							
HP	AMPS	Part Number (M06)	Fig.	Dimensions (in inches)			Weight (lbs.)
				H	W	D	
5	20	2005	1	17.6	8.6	9.8	30
7.5	29	27P5					
10	38	2010					
15	55	2015					
20	72	2020					
25	89	2025					
30	106	2030					
40	140	2040					33
50	175	2050					
60	212	2060					
75	255	2075					
100	341	2100					
125	425	2125	2	26.5	22.5	15	175
150	506	2150					
900 HP and Higher Consult Factory							

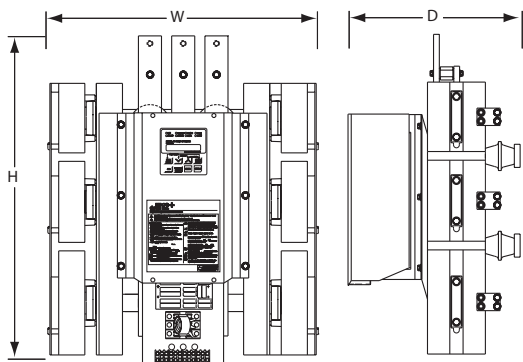
dcM12 ⁺ DIGITAL REGEN 480 VOLT							
HP	AMPS	Part Number (M12)	Fig.	Dimensions (in inches)			Weight (lbs.)
				H	W	D	
7.5	14	47P5	1	17.6	8.6	9.8	30
10	18	4010					
15	27	4015					
20	34	4020					
25	43	4025					
30	51	4030					
40	68	4040					33
50	84	4050					
60	99	4060					
75	123	4075					
100	164	4100					
125	205	4125	2	26.5	22.5	15	275
150	246	4150					
200	330	4200					
250	405	4250	2	52.3	23	15	300
300	477	4300					
400	633	4400					
500	793	4500					
600	950	4600					
700	1100	4700	2	53	25.8	16.5	350
800	1262	4800					
900 HP and Higher Consult Factory							

dcM6 ⁺ DIGITAL NON-REGEN 480 VOLT							
HP	AMPS	Part Number (M06)	Fig.	Dimensions (in inches)			Weight (lbs.)
				H	W	D	
7.5	14	47P5	1	17.6	8.6	9.8	30
10	18	4010					
15	27	4015					
20	34	4020					
25	43	4025					
30	51	4030					
40	68	4040					33
50	84	4050					
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75	123	4075					
100	164	4100					
125	205	4125	2	26.5	22.5	15	175
150	246	4150					
200	330	4200					
250	405	4250	2	30	23	15	250
300	477	4300					
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900 HP and Higher Consult Factory							

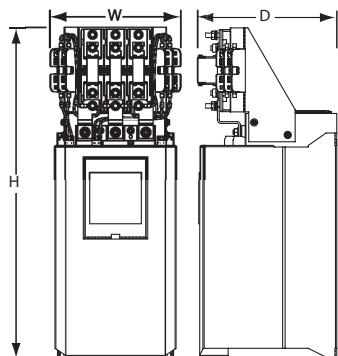
For Chassis dimensions without Fuse Kit subtract 5.6" from height and 0.5" from width.

- NOTES: (1) For Panel, Nema 12 and higher HP information, please contact us.
 (2) Weights are approximate (depending on options), shipping weight may be higher.

CHASSIS > 350
(FIG. 2)



Chassis with Fuse Kit
(FIG. 1)



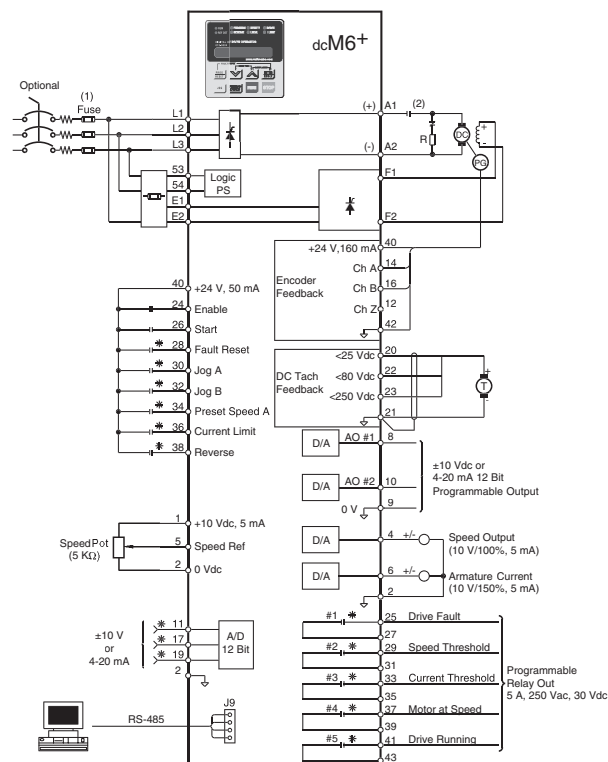
The dcM6⁺ & dcM12⁺ DC Drives are the *state-of-the-art* successors to our popular “M” family of DC Drives. We have redesigned the packaging and upgraded the control section to produce a world-class, “system” type DC Drive.

From simple retrofit applications to complex systems, our dcM⁺ series product family is ready and capable. Our system integration customers requested advanced features like a built-in field regulator, digital encoder feedback, and serial communications capability. Our distributors requested shorter lead times and an English language keypad for easier programming. The dcM⁺ series has it all.

The dcM6⁺ & dcM12⁺ products are available through 3000A. Our new compact packaging (350 A and below) allows multiple configurations to fit your specific needs. For the panel builder, we offer the chassis configuration. If you prefer, you can order a panel with the chassis mounted on a compact panel, complete with optional circuit breaker, blower motor starter, etc.. This factory wired and tested kit is ready to add to your enclosure for a quick, reliable drive solution. You can also order a complete drive package with the kit mounted in a compact, ventilated NEMA 12 package. Our large chassis inventory combined with our RAPIDPAK program ensures quick delivery of any popular configuration.

The dcM6⁺ & dcM12⁺ products are backed by our world class, 24/7 tech support. A technician is only a phone call away. We even offer bilingual customer service and tech support for our Spanish speaking customers. Visit our website for the latest offerings from Safronics.

TERMINAL LAYOUT



- * Programmable I/O. Factory default shown.
 (1) Input Fuses provided on ≥ 350 A.
 (2) DB Contactors standard on Rapidpak up to 100 HP (240Vac), 200 HP (480 Vac).
 See options for chassis, Panel and NEMA 12 units.

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