

Drive Selection Guide



Maximum Full Load Motor Current NEMA Class 150 Service	
400 Amps	493
150 Amps	495
100 Amps	497
55 Amps	499
36 Amps	501
18 Amps	503

Three Phase Voltage	
208 to 230	2
440 to 480	4
575 to 600	6

Tachometer Rating	
50 Volts per 1000 RPM	0
100 Volts per 1000 RPM	1

Modifications

LV Relay (LV)	Tach Loss LV Relay Assy. (TSLA)	Test Meter. Assy. (TMA)	Ref. Relay & Sel. Sw.	System Configuration	
X				Master	0
	X			Master	1
X		X		Master	2
	X	X		Master	3
X			X	Master Ref. Relay	4*
	X		X	Master Ref. Relay	5*
X		X	X	Master Ref. Relay	6*
	X	X	X	Master Ref. Relay	7*
X				Slave	8^
X		X		Slave	9^

* Items 4, 5, 6, 7 to be ordered with item 0, 1, 2 or 3

^ Items 8 or 9 to be ordered with item 0, 1, 2 or 3

Example:

Type 4922C.b 100 Amp Drive, 460 Volts, 100V Tachometer With LV
 and TMA Test Meter Assembly
 P/N 83497-412



Tachometer/Overspeed Switch: 100VDC/1000 R.P.M.			
Enclosure Type:	600 R.P.M.	720 R.P.M.	900 R.P.M.
Indoor/Drip-Proof	5410-48551-601	5410-48551-602	5410-48551-603
NEMA 3R	5410-48878-203	5410-48878-202	5410-48878-201
NEMA 3R (Stainless Steel)	5410-48878-104	5410-48878-102	5410-48878-101
NEMA 4	5410-48894-401	5410-48894-402	5410-48894-403
Enclosure Type:	1200 R.P.M.	1800 R.P.M.	List * E64
Indoor/Drip-Proof	5410-48551-604	5410-48551-605	\$2,130
NEMA 3R	5410-48878-204	5410-48878-205	\$4,260
NEMA 3R (Stainless Steel)	5410-48878-103	5410-48878-105	\$6,380
NEMA 4	5410-48894-404	5410-48894-405	\$7,450

* Add \$100 for space heater.

Primary Impedance Resistors: (3 Leg)				Secondary Slip Resistors:			Resistor
HP	Open	Screens	V.W.P.	Open	Screens	V.W.P.	Type No.
5	\$265	\$375	\$430	\$292	\$402	\$457	3003, SSR
7.5	\$292	\$402	\$457	\$319	\$429	\$484	3003, SSR
10	\$292	\$402	\$457	\$373	\$483	\$538	3003, SSR
15	\$355	\$465	\$520	\$638	\$775	\$830	3003, SSR
20	\$355	\$465	\$520	\$674	\$811	\$866	3003, SSR
25	\$373	\$483	\$538	\$783	\$920	\$975	3003, SSR
30	\$482	\$592	\$647	\$1,036	\$1,173	\$1,228	3003, SSR
40	\$536	\$646	\$701	\$1,228	\$1,365	\$1,420	3003, SSR
50	\$843	\$980	\$1,736	\$1,445	\$1,610	\$1,664	3003, SSR
60	\$843	\$980	\$1,736	\$1,770	\$1,935	\$1,989	3003, SSR
75	\$3,200	\$3,400	\$3,700	\$6,242	\$6,720	\$7,200	3004, K1
90	\$3,200	\$3,400	\$3,700	\$6,240	\$6,720	\$7,200	3004, K1
100	\$3,200	\$3,400	\$3,700	\$6,240	\$6,720	\$7,200	3004, K1
125	\$3,200	\$3,400	\$3,700	\$9,360	\$10,080	\$10,800	3004, K1
150	\$3,200	\$3,400	\$3,700	\$9,360	\$10,080	\$10,800	3004, K1
200	\$3,200	\$3,400	\$3,700	\$9,360	\$10,080	\$10,800	3004, K1
250	\$3,200	\$3,400	\$3,700	\$12,480	\$13,440	\$14,400	3004, K1

Resistor Pricing Based On Standard NEMA Motor Data
 Primary Resistor = 3.5% E/I 125% I
 Secondary Resistor = 12.5% E/I 125% I
 Resistors 75 HP & Up are Rack Mounted and Interwired.



Lift Bridge Drives Type 4922C.b

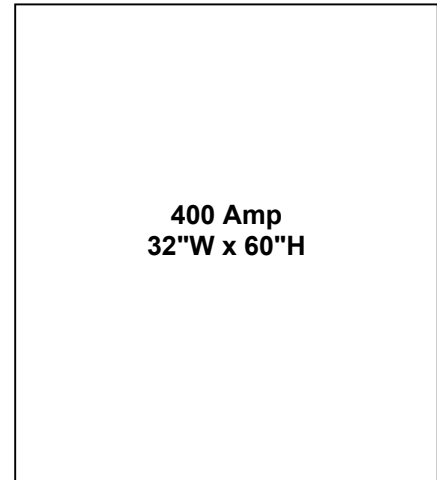
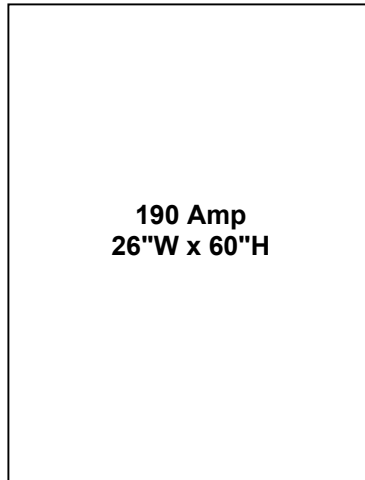
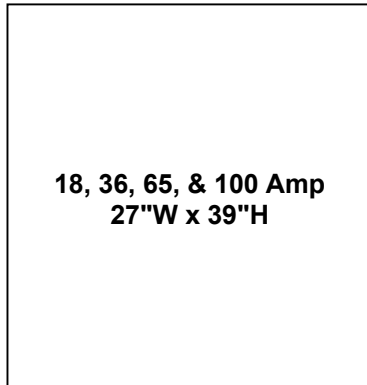
18 Amp Drives		36 Amp Drives		65 Amp Drives	
Part No.	List E51	Part No.	List E51	Part No.	List E51
83503-**0	\$8,170	83501-**0	\$8,560	83499-**0	\$9,510
83503-**1	\$9,470	83501-**1	\$9,860	83499-**1	\$10,810
83503-**2	\$9,970	83501-**2	\$10,360	83499-**2	\$11,310
83503-**3	\$11,270	83501-**3	\$11,660	83499-**3	\$12,610
83503-**4	\$8,970	83501-**4	\$9,360	83499-**4	\$10,310
83503-**5	\$10,270	83501-**5	\$10,660	83499-**5	\$11,610
83503-**6	\$10,770	83501-**6	\$11,160	83499-**6	\$12,110
83503-**7	\$12,070	83501-**7	\$12,460	83499-**7	\$13,410
83503-**8	\$7,450	83501-**8	\$7,840	83499-**8	\$8,790
83503-**9	\$9,250	83501-**9	\$9,640	83499-**9	\$10,590
100 Amp Drives		190 Amp Drives		400 Amp Drives	
Part No.	List E51	Part No.	List E51	Part No.	List E51
83497-**0	\$10,060	83495-**0	\$16,560	83493-**0	\$19,700
83497-**1	\$11,360	83495-**1	\$17,860	83493-**1	\$21,000
83497-**2	\$11,860	83495-**2	\$18,360	83493-**2	\$21,500
83497-**3	\$13,160	83495-**3	\$19,660	83493-**3	\$22,800
83497-**4	\$10,860	83495-**4	\$17,360	83493-**4	\$20,500
83497-**5	\$12,160	83495-**5	\$18,660	83493-**5	\$21,800
83497-**6	\$12,660	83495-**6	\$19,160	83493-**6	\$22,300
83497-**7	\$13,960	83495-**7	\$20,460	83493-**7	\$23,600
83497-**8	\$9,340	83495-**8	\$15,840	83493-**8	\$18,980
83497-**9	\$11,140	83495-**9	\$17,640	83493-**9	\$20,780
Spares:					
Master Module:	4922C.b P/N 49229-107 (50V/1000 RPM Tach.)			\$8,760	List E64
	4922C.b P/N 49229-108 (100V/1000 RPM Tach.)			\$8,760	List E64
Slave Module:	4922C.b P/N 49229-109			\$7,650	List E64
Tach Loss Module:	5410 P/N 49232-101 (50V/1000 RPM Tach.)			\$2,080	List E64
	5410 P/N 49232-102 (100V/1000 RPM Tach.)			\$2,080	List E64
Control Relay:	P/N 31658-088			\$44	List E49
Snubber Module: (18-100 Amp SCR's only)					
240 & 480VAC	P/N 48873-101			\$470	List E69
575VAC	P/N 48873-102			\$470	List E69
Snubber Board: (190-400 Amp.)					
190 Amp	P/N 48554-001			\$710	List E69
400 Amp	P/N 48554-011			\$510	List E69
TPM Modules:					
18 Amp	P/N 47283-023			\$83	List E69
36 Amp	P/N 47283-008			\$150	List E69
65 Amp	P/N 47283-012			\$230	List E69
100 Amp	P/N 47289-027			\$377	List E69
190 Amp	P/N 48543-001			\$3,188	List E64
400 Amp	P/N 48544-001			\$4,260	List E64



Description	Qty.
Standard Components	
Type 4922C.b Variable Speed Control Assembly	1
Type 5410 Thyristor Control Modules	5
LV Relay	1
Control Relays	7 or 8
Synchronizing Transformer	1
Control Circuit Transformation	1
Control Circuit Fuses	2
Reduced Speed Trim Potentiometer Options	1
Tach Loss LV Relay Assembly (TSLA)	1
Test Meter Assembly (TMA)	1
Master/Slave Relay and Selector Switch (M/S)	1

Specification	Rating
Input Power:	208V to 600V, 3 phase, 60Hz.
Max Motor Full Load Current Range:	18, 36, 65, 100, 190, 400 Amps
Speed Range:	Typical 10 to 1
Speed Regulation:	Better than 1%
Control Configuration	Static Reversing
Temperature Range	-40° C to +55° C

Approximate Dimensions (Open Panel)



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