

Large Packaged AC Drive Solutions

Total package solutions.

50 - 500hp

460V (575V optional¹)

Known worldwide for packaged drive systems, Emerson Control Techniques offers a wide variety of enclosure, power and control option configurations to meet even the most demanding application requirements. Built with the quality and reliability you'd expect from an industry-leading global

supplier, these engineered solutions are fully tested and backed by complete engineering documentation and drawings as well as robust after-sale support programs. The result is a single-source solution with single-source accountability.



Key Features:

- Choice of AC drives²:
 - Unidrive SP – high-performance universal AC/ Servo drive offering advanced motor control and flexible system integration
 - Commander SK – economical, easy-to-use general-purpose drive for standard applications such as fans, pumps and conveyors
- A cost competitive, pre-engineered “AC In – AC Out” solution
- Industry-standard filtered and ventilated enclosures³
- Simple ordering, installation and configuration
- Available options include...
 - Circuit breaker disconnect
 - Line / load reactors
 - Door-mounted operator controls
 - Door-mounted keypad

When you need a high-horsepower Positive Pressure Blown and Filtered AC drive system, Emerson Control Techniques has the solution. Robust Commander SK or Unidrive SP drive technology gives users the power, performance and the ultimate in flexibility for all AC applications from 50hp to 500hp. For custom-built and/or higher-horsepower configurations, please consult your local Control Techniques sales representative.

Control Techniques' packaged systems group combines state-of-the-art technology with over 30 years' experience in providing complete solutions for thousands of applications.

¹Consult factory for product details on 575VAC, regen and drives above 500hp

²Refer to Control Techniques Unidrive SP Panel Mount brochure (BRO-USP-1107) and Commander SK brochure (BRO-CSK-1107) for details on the base drive product functionality

³True NEMA 12 filtering option available – consult factory



UL 508A Available on Request

Large Packaged AC Drives

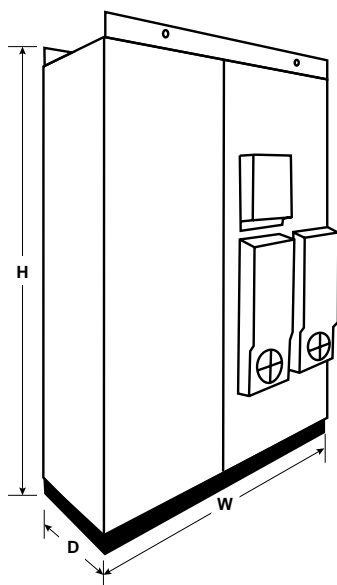
Ratings, Dimensions and Order Information

Ratings

Normal Duty (460V*)							Heavy Duty (460V*)						
Order No.				Max. Cont. Current (A)	Motor Power (HP)	Typical Output (KW)	Order No.				Max. Cont. Current (A)	Motor Power (HP)	Typical Output (KW)
Unidrive SP	M/N	Commander SK	M/N				Unidrive SP	M/N	Commander SK	M/N			
LSPSP-x40050N	SP4401	LPSK-x40050N	SK4401	68	50	37	LSPSP-X40050H	SP4401	LPSK-x40050H	SK4401	60	50	37
LSPSP-x40060N	SP4402	LPSK-x40060N	SK4402	83	60	45	LSPSP-X40060H	SP4402	LPSK-x40060H	SK4402	74	60	45
LSPSP-x40075N	SP4403	LPSK-x40075N	SK4403	104	75	56	LSPSP-X40075H	SP4403	LPSK-x40075H	SK4403	96	75	56
LSPSP-x40100N	SP5401	LPSK-x40100N	SK5401	138	100	75	LSPSP-x40100H	SP5401	LPSK-x40100H	SK5401	124	100	75
LSPSP-x40125N	SP5402	LPSK-x40125N	SK5402	168	125	93	LSPSP-x40125H	SP5402	LPSK-x40125H	SK5402	156	125	93
LSPSP-x40150N	SP6401	LPSK-x40150N	SK6401	205	150	112	LSPSP-x40150H	SP6402	LPSK-x40150H	SK6402	210	150	112
LSPSP-x40200N	SP6402	LPSK-x40200N	SK6402	236	200	149	LSPSP-x40200H	SPMD14x3	-	-	246	200	149
LSPSP-x40250N	SPMD14x3	-	-	290	250	187	LSPSP-x40250H	SPMD14x4	-	-	290	250	187
LSPSP-x40300N	2 - SPMA14x1	-	-	389	300	224	LSPSP-x40300H	2 - SPMA14x1	-	-	342	300	224
LSPSP-x40350N	2 - SPMA14x2	-	-	448	350	261	LSPSP-x40350H	2 - SPMA14x2	-	-	399	350	261
LSPSP-x40400N	2 - SPMD14x2	-	-	467	400	298	LSPSP-x40400H	2 - SPMD14x3	-	-	467	400	298
LSPSP-x40450N	2 - SPMD14x3	-	-	551	450	336	LSPSP-x40450H	2 - SPMD14x4	-	-	551	450	336
LSPSP-x40500N	2 - SPMD14x4	-	-	636	500	373	LSPSP-x40500H	3 - SPMA14x2	-	-	598	500	373

Dimensions

460V	Duty Cycle	Height in (mm)	Width in (mm)	Depth in (mm)
50 - 75hp	Normal	60	38	16
50 - 75hp	Heavy	(1524)	(965.2)	(406.4)
100-125hp	Normal	78.75	23.6	23.6
100-125hp	Heavy	(2000.25)	(599.44)	(599.44)
150-250hp	Normal	78.75	31.5	27.5
150-250hp	Heavy	(2000.25)	(800.1)	(698.5)
300-500hp	Normal	78.75	55.1	27.5
300-450hp	Heavy	(2000.25)	(1399.54)	(698.5)
500hp	Heavy	78.75	63	27.5
		(2000.25)	(1600.2)	(698.5)



Note: Depth dimensions for the cabinets in the table include through-panel heatsinks and blowers on the back of the cabinet. Through-panel mounting available for 150hp and above.

Order Code

Sample Code:	LP	XX	-	X	X	XXXX	X	X	X	-	X	X
Position Number:	1-2	3-4	5	6	7	8-11	12	13	14	15	16	17

1 - 2. Product
Large Packaged Drive

3 - 4. Drive Model
SK = Commander SK (1)
SP = Unidrive SP

6. Input Power
0 = Main Lugs (2)
1 = Thru-door disconnect circuit breaker (2)
2 = Non-fused disconnect switch (2)

7. Voltage Rating
4 = 460VAC
5 = 575VAC**

8 - 11. Horsepower
0050 = 50hp
0060 = 60hp
0075 = 75hp
0100 = 100hp
0125 = 125hp
0150 = 150hp
0200 = 200hp
0250 = 250hp
0300 = 300hp
0350 = 350hp
0400 = 400hp
0450 = 450hp
0500 = 500hp

12. Duty Rating
H = Heavy Duty
N = Normal Duty

13. Blower Motor Starter Opt.
0 = None
1 = Blower motor starter

14. Filtering Options
0 = None
1 = AC Input Reactor (4)
2 = AC Output Reactor (5)
3 = AC Input and Output Reactor

16. Door Mounted Keypad
E = LED Keypad on drive
C = LCD Keypad on drive (SP only)
K = LCD Keypad mounted on door

17. Door Mounted Operator Station
0 = Power On light, Drive Fault light
2 = #1 + Jog PB, Fwd/Rev Sel switch
3 = HOA SS, Pot, Power On, VFD Run, Fault light

Notes:

- Commander SK drive is available up to 200hp normal duty / 150hp heavy duty
- Drive line fuses are included as standard
- Input reactors are standard on some models (consult the 2012 Price List for details)
- Output reactors are standard for 300HP and above and optional for all other ratings
- For options not listed above, please consult your Control Techniques sales person for pricing and availability
- Ambient temperature 104 °F (40 °C)
- Switching frequency is 3Khz standard; additional de-rating is required for high switching frequencies
- Maximum altitude rating = 3300ft. (1000m) above sea level

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