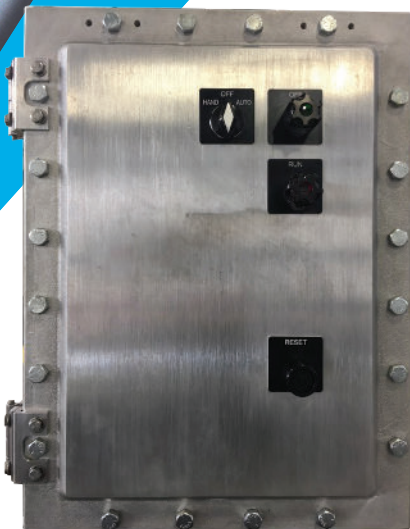




EXCP Non-Combination Enclosed Line Starters

EXCP Non Combination Enclosed Line Starters, offered by Spike Electric Controls, are cutting-edge electrical devices designed to ensure safe and efficient motor control. These starters are meticulously crafted to meet the highest industry standards, providing reliable operation and protection for a wide range of industrial applications. With a focus on quality and innovation, Spike Electric Controls' EXCP line starters are an essential component for optimizing electrical systems and enhancing operational safety.





EXCP

Non-Combination Enclosed Line Starters

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BY SPIKE ELECTRIC CONTROLS



Standard Materials:

- Body & cover - Copper free aluminum
- Gasket - Neoprene
- Cover bolts
- Hinges - Aluminum

Electrical Ratings Range:

- Motor starters - NEMA/EEMAC sizes 0-6

Features, Benefits & Functions:

- Rugged, corrosion resistant, cast copper-free aluminum construction
- Total compliance to the wiring bend room requirements of the National Electrical Code*/Canadian Electrical Code
- NEMA 4 watertight cover gasket permanently attached to the cover seals out moisture
- Bodies have top & bottom drilled & tapped entrances for power conduits plus one at the bottom for control conduit.
- Tap-on mounting feet - Retro fit mounting hardware kits are made for the EXCP line enclosures to mount directly in the same footprint as the listed manufacturer.
- Optional EXCP control devices may be added to enclosure cover
- Designed specifically for use in applications requiring NEMA ratings. Contactors meet or exceed NEMA standards ICS 2-1993
- Long life twin break, silver cadmium oxide contacts—provide excellent conductivity & superior resistance to welding & arc erosion
- Designed to 3,000,000 electrical operations at maximum hp ratings up through 25 hp at 600V

Ordering Information:

To order an complete non-combination starter insert the manufacturer's symbols in the ① & ② of the catalog number. Select from the manufacture listings below. Consult factory. For Non-Combination starters with motor circuit protectors for single speed, non-reversing & reversing motors The standard coil voltage is 120V if not specified. *All EXCP non combination starters will have CPT rated 480v-120/240v.

Applications:

EXCP hinged cover motor control enclosures are used:

1. For general motor control & circuit protection - indoors & outdoors - in damp, wet, dirty, dusty hazardous locations without the need for a protective shelter
2. In areas where frequent wash-downs are necessary or where heavy rain or water spray is prevalent
3. For cross-the-line starting, stopping, speed changing & reversing of polyphase AC induction motors
4. To provide line disconnect means & short circuit protection
5. To provide motor overload & under voltage protection
6. For service entrance, feeder or branch circuit protection for lighting, heating, appliance & motor circuits
7. On switchracks or other assemblies where it's desired that motor control be centrally located

Certifications & Compliances:

- NEC/CEC:
- Class I, Division 1 & 2, Groups B, C, D
- Class II, Division 1 & 2, Groups E, F, G
- Class III
- cUL & UL Standard 1203
- NEMA Type 3, 3R, 4, 7BCD, 9EFG
- Standard: designed to meet or exceed UL, NEMA, IEC, cUL, VDE & BS

EXCP series motor control enclosures with non-combination line starters:

When specifying any one of the following options with EXCP Motor Controls (J1, J3, PB23, RR2, RR3), we will put standard industry legend plates. If there is a specific legend plate you require it is necessary to Specify Legend Plates for identification & marking on the end of your part number see [page 7](#)



* National Electrical Code is a Registered Trademark of the National Fire Protection Association.



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Catalog Number System EXCP-SB-1-WT-FTPS50-34-SSOL-A



NEMA Size	
1	4
2	5
3	6

Enclosure	
Cat #	Description
SB	Size 0-1 starter
SD	Size 2 starter
SG	Size 3-4 starter
SM	Size 5 starter
RSC	Size 0-1 reversing starter
RSD	Size 2 reversing starter
RSG	Size 3-4 reversing starter
SRM	Size 5 reversing starter

Brand	Suffix
* PLACE A DASH (-) BETWEEN EACH OPTION IN THE ORDER LISTED BELOW	
Cutler-Hammer	WT
Square D	D

Motor Starters Accessories	Suffix
* PLACE A DASH (-) BETWEEN EACH OPTION IN THE ORDER	
Less overload relays (lighting contactor)	CL
Less overload relays (motor contactor)	CM
Starter w/ electronic ground fault overload relay	GF
Additional control contacts, N.O.	S779
Additional control contacts, N.C.	S780
Auxiliary contacts on starter 1 N.O. & 1 N.C	S781
Auxiliary contacts on starter 2 N.O. & 2 N.C	S782
Auxiliary contacts on starter 3 N.O. & 3 N.C	S783
Solid state overload relay	SSOL
BI metallic overload relay	BI
Electronic thermal overload relay	ETOR

EXCP - SB - 1 - WT - FTPS50 - 34 - SSOL - A

Enclosure Modifications & Accessories	Cat #
* PLACE A DASH (-) BETWEEN EACH OPTION IN THE ORDER LISTED BELOW	
Control circuit transformer, 50VA for NEMA/EEMAC sizes 0-2, 600/480/240-120, 50 / 60 Hertz, with provision for fusing both primary leads & one secondary lead	FTPS50
Control circuit transformer, 100VA for NEMA/EEMAC sizes 0-2, 600/480/240-120, 50 / 60 Hertz, with provision for fusing both primary leads & one secondary lead	FTPS100
Control circuit transformer, 200VA for NEMA/EEMAC size 3-4 600/480/240-120, 50 / 60 Hertz, with provision for fusing both primary leads & one secondary lead	FTPS200
Control circuit transformer, 300VA for NEMA/EEMAC size 5 600/480/240-120, 50 / 60 Hertz, with provision for fusing both primary leads & one secondary lead	FTPS300
Pilot light, 120VAC, red jewel, w/blank indicating plate	J1
Pilot light, 120VAC, green jewel, w/blank indicating plate	J3
LED pilot lights (in place of standard incandescent lamps)	LED
Pilot light push to test, 120VAC, Red or Green *R or G	J3PT
Start-stop pushbuttons	PB23
Red pushbutton	PB24
Green pushbutton	PB25
On-off selector switch	RR2
Hand-off-auto selector switch	RR3
Emergency stop maintained	EMS
Space heater, 120 Volt, 25 Watts	R11
Space heater, 240 Volt, 25 Watts	R22
Space heater, 480 Volt, 25 Watts	R44
Automatic reset overload relay	S1
Insulated neutral w/2 connectors	S146
Std. drain, class 1, B,C & D; class 11, E, F & G; class 111	S756
Std. breather & drain, class 1, B, C & D; class 11, E, F & G; class 111	S756V
External epoxy finish	S752
Internal & external epoxy finish	S753
12 Point term. block - 30 amp, 300V	S786
General purpose control relay, 4 pole N.O., contacts rated 10A, 600V, coil 120VAC	GCR

Wiring Systems
3 - 3 Phase
1 - Single Phase

Breaker Voltage
2 - 240V
4 - 480V
6 - 600V

AC Coil Suffix	Symbol
* place a dash (-) between each option in the order listed below	
WT	
120/60 or 110/50	A
240/60 or 220/50	B
480/60 or 440/50	C
600/60 or 550/50	D

DC Coil Suffix	Symbol
12VDC	F
24VDC	G
48VDC	M
120VDC	P

* SEE PAGE 6



EXCP

Non-Combination
Enclosed Line Starters

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BY **SPiKE**
ELECTRIC CONTROLS

EXCPS Series Enclosures for Magnetic Line Starters Single Speed Non-Reversing

Motor Starter		Enclosure		
Max. HP Polyphase	Volts	NEMA Size	Without Starter Cat. #	With Starter Cat. #
2	120	0	EXCPSB	EXCPSB 1-3-4
3	120	1	EXCPSB	EXCPSB 1-3-4
3	240	0	EXCPSB	EXCPSB 1-3-4
5	480	0	EXCPSB	EXCPSB 1-3-4
5	600	0	EXCPSB	EXCPSB 1-3-4
7 1/2	120	2	EXCPSD	EXCPSD 1-3-4
7 1/2	240	1	EXCPSB	EXCPSB 1-3-4
10	480	1	EXCPSB	EXCPSB 1-3-4
10	600	1	EXCPSB	EXCPSB 1-3-4
15	120	3	EXCPSG	EXCPSG 1-3-4
15	240	2	EXCPSD	EXCPSD 1-3-4
25	480	2	EXCPSD	EXCPSD 1-3-4
25	600	2	EXCPSD	EXCPSD 1-3-4
30	240	3	EXCPSG	EXCPSG 1-3-4
50	480	3	EXCPSG	EXCPSG 1-3-4
50	600	3	EXCPSG	EXCPSG 1-3-4
50	240	4	EXCPSE	EXCPSE 1-3-4
100	480	4	EXCPSE	EXCPSE 1-3-4
100	600	4	EXCPSE	EXCPSE 1-3-4
100	240	5	EXCPSM	EXCPSM 1-3-4
200	480	5	EXCPSM	EXCPSM 1-3-4

EXCPS Series Enclosures for Magnetic Line Starters Single Speed Reversing

Motor Starter		Enclosure		
Max. HP Polyphase	Volts	NEMA Size	Without Starter Cat. #	With Starter Cat. #
2	120	0	EXCPRSB	EXCPSB 1-3-4
3	120	1	EXCPRSB	EXCPSB 1-3-4
3	240	0	EXCPRSB	EXCPSB 1-3-4
5	480	0	EXCPRSB	EXCPSB 1-3-4
5	600	0	EXCPRSB	EXCPSB 1-3-4
7 1/2	120	2	EXCPRSD	EXCPSD 1-3-4
7 1/2	240	1	EXCPRSB	EXCPSB 1-3-4
10	480	1	EXCPRSB	EXCPSB 1-3-4
10	600	1	EXCPRSB	EXCPSB 1-3-4
15	120	3	EXCPRSG	EXCPSG 1-3-4
15	240	2	EXCPRSD	EXCPSD 1-3-4
25	480	2	EXCPRSD	EXCPSD 1-3-4
25	600	2	EXCPRSD	EXCPSD 1-3-4
30	240	3	EXCPRSG	EXCPSG 1-3-4
50	480	3	EXCPRSG	EXCPSG 1-3-4
50	600	3	EXCPRSG	EXCPSG 1-3-4
50	240	4	EXCPRSE	EXCPSE 1-3-4
100	480	4	EXCPRSE	EXCPSE 1-3-4
100	600	4	EXCPRSE	EXCPSE 1-3-4
100	240	5	EXCPRSM	EXCPSM 1-3-4
200	480	5	EXCPRSM	EXCPSM 1-3-4

NOTE: EXCPS is available up to 400 HP contact
Spike Electric Controls factory assistance.





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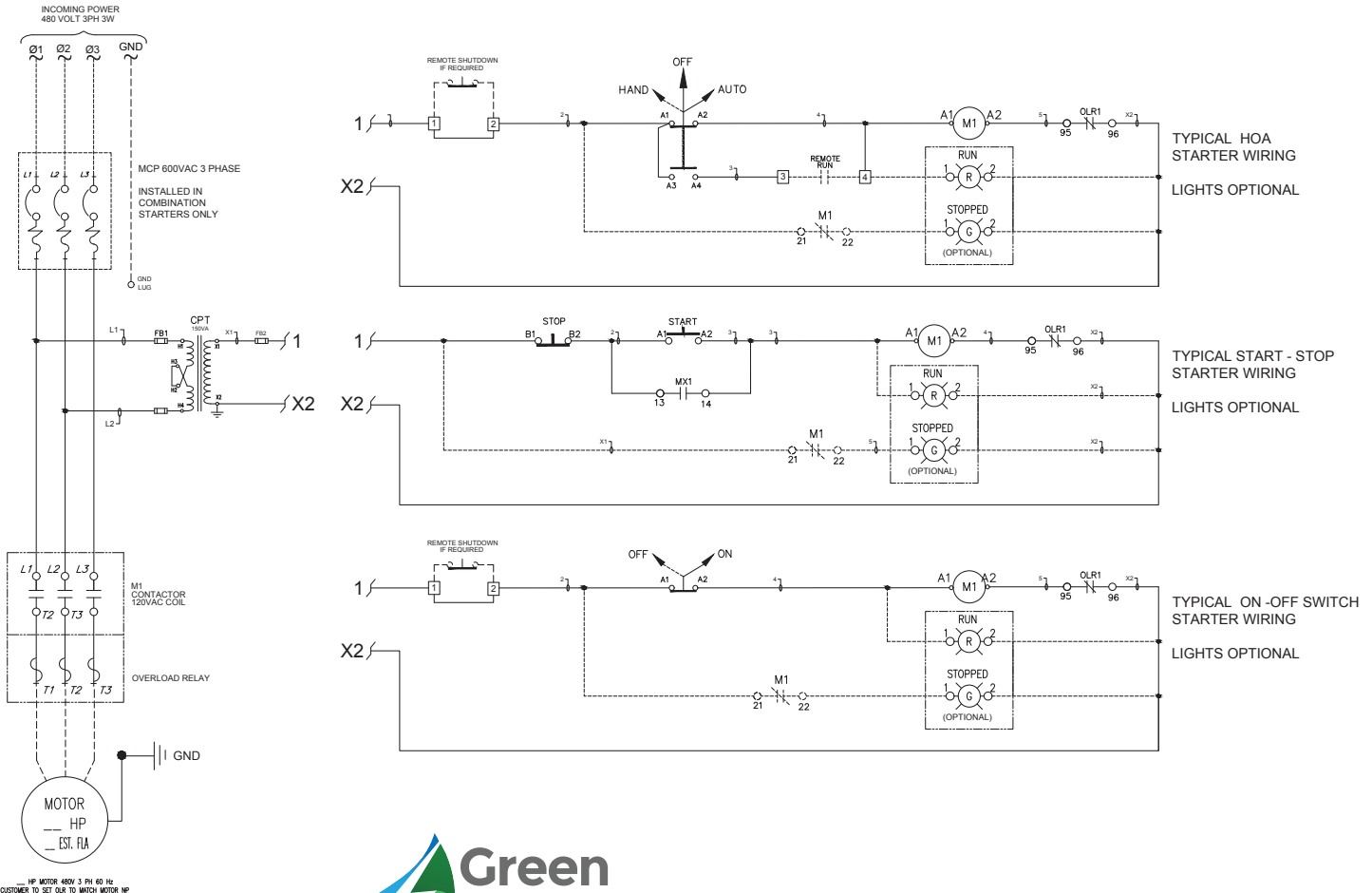
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Standard Wiring Schematic:

NOTES:

- 1) All power wiring/cable will be 600 VAC type THW / THWN or equal.
- 2) All power wiring to be minimum #12 AWG & color to be Black
- 3) All ground conductors to be Green #12 AWG minimum Type THW / THWN
- 4) All control wiring to be sized per the drawings & to be 600 va. Type MTW / THNN or equal minimum #14 AWG. Control wires to be red or gray in color.
- 5) Panel to include grounding lug for customer ground connections. Customer to size grounding conductor per NEC regulations.
- 6) Installer MUST set Overload Relay to match Motor NP Data.





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Legend Plates:

If desired markings on indicating plates may be added to catalog number after the coil voltage designation. Put a – after the coil voltage & any legend plates that are selected. Select from the list of standard markings below.

Single Function Legend Plates

Marking	Cat. #
Automatic	DSL16
Blank	DSL01
Blank with single field	DSL02
Close	DSL21
Down	DSL23
Emerg. Stop	DSL17
Fast	DSL46
Forward	DSL18
Hand	DSL15
In	DSL24
Jog	DSL10
Lower	DSL27
On	DSL07
Off	DSL08
Open	DSL20
Out	DSL25
Power On	DSL14
Raise	DSL26
Reset	DSL12
Reverse	DSL19
Run	DSL09
Safe	DSL85
Slow	DSL47
Start	DSL05
Stop	DSL06
Test	DSL13
Trip	DSL11
Up	DSL22

TWO Function Legend Plates

Marking	Cat. #
Blank with 2 fields	DSL03
For –Rev	DSL30
Hand-Auto	DSL29
In-Out	DSL35
Off-On	DSL48
Open-Close	DSL32
Raise Lower	DSL36
Run-Jog	DSL28
Safe-Run	DSL86
Start-Stop	DSL37
Slow-Fast	DSL65
Up-Down	DSL33

Three Function Legend Plates

Marking	Cat. #
Auto-Off-Hand	DSL49
Blank with 3 fields	DSL04
Fast-Off-Slow	DSL41
For-Off-Rev	DSL40
Hand-Off-Auto	DSL39
Run-Off-Jog	DSL38
Open-Off-Close	DSL43
Raise-Off-Lower	DSL87
Slow-Off-Fast	DSL88
Up-Off-Down	DSL44
1-Off-2	DSL42



Background color for all legend plates is black with the following exceptions:

Marking	Cat. #
Start	Green
Stop	Red
Emerg.Stop	Red





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RFQ Questionnaire

Customer: _____

End User: _____

Project: _____

Location: _____

Prepared By: _____

Date: ____/____/____

Quotation For: ____ Estimate/Budget ____ Immediate Buy

Quotation Date Required: ____/____/____

Material Date Required: ____/____/____

Notes: _____

For Motor Starters:

System Voltage

480 V

Motor HP _____

240 V

Three Phase

Other: _____

Single Phase

Control Voltage

120

Other: _____

Enclosure Types:

NEMA 7/9

NEMA 7/9 (with gasketed cover)

Class 1 Div 1 or 2 Groups B, C & D

Class 1 Div 1 or 2 Groups E, F & F

ATEX & IECEX must consult factory

Zone 1 Zone 2

Starter(s):

Manufacturer: _____

Disconnect Switch

Circuit Breaker T/M

Fused Disconnect Switch

C/B Amp Rating ____AMP

Motor Circuit Protector

Standard products for hazardous areas:

Manual Motor Starters

Circuit Breaker Disconnects

FVNR & FVR Motor Starters

Custom Distribution Panels

Motor Soft Starters

Standard Distribution Panels

Manual Disconnect Switches

Optional Controls:

Type: NEMA IEC

CPT for 120 volt Control Power _____ VA

Start / Stop Push Button

RVSS Reduced Voltage Solid State Starter

Hand - Off _ Auto Selector Switch

FVR Full Voltage REVERSING Starter

Pilot Light

Two Speed Motor (2S2W/2S1W)

FVNR Full Voltage Non Reversing Starter

Other: _____

Soft Start: _____

Manufacturer: _____

Soft Start: _____

Manufacturer: _____

