EE CONTROLS
3881 Danbury Road
Brewster, N.Y. 10509
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STARTERS - XLSN series

Low Voltage Motor Control

c UL us

CE

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XLSN Starters

3 Phase Full Voltage Across the Line

AC-3 Volts	HP	OPEN	NEMA 1 General Purpose (metal)	NEMA 4X Hose Dust Tight (non metal)	NEMA 4 Outdoor Oil/Dust Tight (metal)	NEMA 3R Rain Tight (metal)	NEMA 12 Indoor Dust Tight (metal)	★ NEMA HP
12	200V 3 HP **230V 3 HP** **460V 7.5 HP** 600V 10 HP LIST	XLSN5 -◆0-★★ $168	XLSN5 -◆1-★★ $268	XLSN5 -◆4X-★★ $368	XLSN5 -◆4-★★ $458	XLSN5 -◆3R-★★ $332	XLSN5 -◆12-★★ $408	200V 1.5 HP 230V 1.5 HP 460V 2 HP 600V 2 HP **NEMA 00**
18	200V 5 HP **230V 5 HP** **460V 10 HP** 600V 15 HP LIST	XLSN7 -◆0-★★ $178	XLSN7 -◆1-★★ $278	XLSN7 -◆4X-★★ $378	XLSN7 -◆4-★★ $468	XLSN7 -◆3R-★★ $342	XLSN7 -◆12-★★ $418	
25	200V 7.5 HP **230V 7.5 HP** **460V 15 HP** 600V 15 HP LIST	XLSN11 -◆0-★★ $200	XLSN11 -◆1-★★ $300	XLSN11 -◆4X-★★ $400	XLSN11 -◆4-★★ $490	XLSN11 -◆3R-★★ $350	XLSN11 -◆12-★★ $440	200V 3 HP 230V 3 HP 460V 5 HP 600V 5 HP **NEMA 0**
32	200V 10 HP **230V 10 HP** **460V 20 HP** 600V 25 HP LIST	XLSN15 -◆0-★★ $288	XLSN15 -◆1-★★ $448	XLSN15 -◆4X-★★ $518	XLSN15 -◆4-★★ $578	XLSN15 -◆3R-★★ $498	XLSN15 -◆12-★★ $528	
40	200V 10 HP **230V 15 HP** **460V 30 HP** 600V 25 HP LIST	XLSN18 -◆0-★★ $304	XLSN18 -◆1-★★ $464	XLSN18 -◆4X-★★ $534	XLSN18 -◆4-★★ $594	XLSN18 -◆3R-★★ $514	XLSN18 -◆12-★★ $544	200V 7.5 HP 230V 7.5 HP 460V 10 HP 600V 10 HP **NEMA 1**
50	200V 15 HP **230V 15 HP** **460V 40 HP** 600V 40 HP LIST	XLSN22 -◆0-★★ $354	XLSN22 -◆1-★★ $554	XLSN22 -◆4X-★★ $654	XLSN22 -◆4-★★ $684	XLSN22 -◆3R-★★ $604	XLSN22 -◆12-★★ $634	
65	200V 20 HP **230V 20 HP** **460V 50 HP** 600V 50 HP LIST	XLSN30 -◆0-★★ $442	XLSN30 -◆1-★★ $642	XLSN30 -◆4X-★★ $742	XLSN30 -◆4-★★ $772	XLSN30 -◆3R-★★ $692	XLSN30 -◆12-★★ $722	
80	200V 20 HP **230V 25 HP** **460V 50 HP** 600V 60 HP LIST	XLSN37 -◆0-★★ $500	XLSN37 -◆1-★★ $700	XLSN37 -◆4X-★★ $800	XLSN37 -◆4-★★ $830	XLSN37 -◆3R-★★ $750	XLSN37 -◆12-★★ $780	200V 10 HP 230V 15 HP 460V 25 HP 600V 25 HP **NEMA 2**

★ = For NEMA Labelled Starters, Add -"NA" Suffix, No Additional Charge

Replace "◆" with the Appropriate Coil Voltage Code [2)]

AC coil - 60 Hz						
Coil voltage codes	G	A	C	E	F	H
VAC - 50/60 Hz	24	120	208/230	480	600	277

DC coil - (XLSN15- XLSN37)						
Coil voltage codes	M	N	O	P	R	I
VDC	12	24	48	110/125	220	72
$ Adder for DC Coils	**+ $34** XLSN15-XLSN18			**+ $74** XLSN22-XLSN37		

Notes: 2) Other voltages available.

Part # Example:
XLSN7 - A1-N
LSN7 Contactor
A=120VAC Coil
1=NEMA 1 Enclosure
N=15-23 Amp Overload Range.

Replace "★★" with the Appropriate Overload Suffix

O.L. Relay Setting Range		O.L. Relay Setting Range	
Suffix	**(Amps)**	**Suffix**	**(Amps)**
-A	0.28-0.40	-K	8.0-12.5
-B	0.40-0.63	-L	10-15
-C	0.56-0.80	-M	11-17
-D	0.80-1.2	-N	15-23
-E	1.2-1.8	-O	22-32
-F	1.8-2.8	-P	25-40
-G	2.8-4.0	-Q	40-57
-H	4.0-6.3	-QN	50-63
-I	5.6-8.0	-RN	57-70
-J	7.0-10	-SN	63-80

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XLSN Starters

3 Phase Full Voltage Across the Line

AC-3	Volts HP	OPEN	NEMA 1 General Purpose (metal)	NEMA 4X Hose Dust Tight (non metal)	NEMA 4 Outdoor Oil/Dust Tight (metal)	NEMA 3R Rain Tight (metal)	NEMA 12 Indoor Dust Tight (metal)	★ NEMA HP
95	200V 25 HP **230V 30 HP** **460V 60 HP** 600V 75 HP LIST	XLSN45 -♦0-★★ $596	XLSN45 -♦1-★★ $936	XLSN45 -♦4X-★★ $1,072	XLSN45 -♦4-★★ $1,046	XLSN45 -♦3R-★★ $984	XLSN45 -♦12-★★ $996	
105	200V 30 HP **230V 40 HP** **460V 75 HP** 600V 75 HP LIST	XLSN55 -♦0-★★ $690	XLSN55 -♦1-★★ $1,080	XLSN55 -♦4X-★★ $1,320	XLSN55 -♦4-★★ $1,345	XLSN55 -♦3R-★★ $1,170	XLSN55 -♦12-★★ $1,270	200V 25 HP 230V 30 HP 460V 50 HP 600V 50 HP **NEMA 3**
112	200V 40 HP **230V 50 HP** **460V 100 HP** 600V 100 HP LIST	XLSN75 -♦0-★★ $1,300	XLSN75 -♦1-★★ $1,790	XLSN75 -♦4X-★★ $2,680	XLSN75 -♦4-★★ $2,450	XLSN75 -♦3R-★★ $1,880	XLSN75 -♦12-★★ $2,250	
150	200V 50 HP **230V 60 HP** **460V 125 HP** 600V 150 HP LIST	XLSN90 -♦0-★★ $1,530	XLSN90 -♦1-★★ $2,020	XLSN90 -♦4X-★★ $2,910	XLSN90 -♦4-★★ $2,680	XLSN90 -♦3R-★★ $2,110	XLSN90 -♦12-★★ $2,480	200V 40 HP 230V 50 HP 460V 100 HP 600V 100 HP **NEMA 4**
180	200V 60 HP **230V 75 HP** **460V 150 HP** 600V 200 HP LIST	XLSN132 -♦0-★★ $1,840	XLSN132 -♦1-★★ $3,120	XLSN132 -♦4X-★★ $3,560	XLSN132 -♦4-★★ $3,460	XLSN132 -♦3R-★★ $3,320	XLSN132 -♦12-★★ $3,360	
250	200V 75 HP **230V 100 HP** **460V 200 HP** 600V 250 HP LIST	XLSN160 -♦0-★★ $2,110	XLSN160 -♦1-★★ $3,390	XLSN160 -♦4X-★★ $3,830	XLSN160 -♦4-★★ $3,730	XLSN160 -♦3R-★★ $3,590	XLSN160 -♦12-★★ $3,630	200V 75 HP 230V 100 HP 460V 200 HP 600V 200 HP **NEMA 5**
300	200V 100 HP **230V 125 HP** **460V 250 HP** 600V 350 HP LIST	XLSN220 -♦0-★★ $2,340	XLSN220 -♦1-★★ $4,210	XLSN220 -♦4X-★★ $6,540	XLSN220 -♦4-★★ $4,740	XLSN220 -♦3R-★★ $4,410	XLSN220 -♦12-★★ $4,530	

★ = For NEMA Labelled Starters, Add -"NA" Suffix, No Additional Charge

Replace "♦" with the Appropriate Coil Voltage Code [2)]

XLSN45 - XLSN55

AC coil - 60 Hz						
Coil voltage codes	G	A	C	E	F	H
VAC - 50/60 Hz	24	120	208/230	480	600	277

DC coil - (XLSN45- XLSN55						
Coil voltage codes	M	N	O	P	R	I
VDC	12	24	48	110/125	220	72
$ Adder for DC Coils	**+ $74** XLSN45-XLSN55					

XLSN75 - LSN220

50/60 Hz / DC[3)]	LSN75- LSN220)[3)]				
Coil voltage codes	G	A	C	E	F
50/60 Hz / DC[3)]	24-28 V	110-130 V	208-250 V	430-500 V	600VAC *

Notes: 2) Other voltages available. 3) Surge suppressor is already integrated.

Replace " ★★" with the Appropriate Overload Suffix

O.L. Relay Setting Range	
Suffix	**(Amps)**
-SN	63 - 80
-TM	75 - 97
-TN	90 - 112
-TT	100 - 150
-U	140 - 215
-V	200 - 310

Part # Example:
XLSN45 - A1-SN
LSN45 Contactor
A=120VAC Coil
1=NEMA 1 Enclosure
N=63-80 Amp Overload Range.

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XLSN Starters

Single Phase Full Voltage Across the Line

AC-3	Volts HP	OPEN	NEMA 1 General Purpose (metal)	NEMA 4X Hose Dust Tight (non metal)	NEMA 4 Outdoor Oil/Dust Tight (metal)	NEMA 3R Rain Tight (metal)	NEMA 12 Indoor Dust Tight (metal)
12	120V 3/4 HP 230V 2 HP LIST	SXLSN5 -◆0-★★ $168	SXLSN5 -◆1-★★ $268	SXLSN5 -◆4X-★★ $368	SXLSN5 -◆4-★★ $458	SXLSN5 -◆3R-★★ $332	SXLSN5 -◆12-★★ $408
18	120V 1 HP 230V 3 HP LIST	SXLSN7 -◆0-★★ $178	SXLSN7 -◆1-★★ $278	SXLSN7 -◆4X-★★ $378	SXLSN7 -◆4-★★ $468	SXLSN7 -◆3R-★★ $342	SXLSN7 -◆12-★★ $418
25	120V 2 HP 230V 5 HP LIST	SXLSN11 -◆0-★★ $200	SXLSN11 -◆1-★★ $300	SXLSN11 -◆4X-★★ $400	SXLSN11 -◆4-★★ $490	SXLSN11 -◆3R-★★ $350	SXLSN11 -◆12-★★ $440
40	120V 3 HP 230V 5 HP LIST	SXLSN18 -◆0-★★ $304	SXLSN18 -◆1-★★ $464	SXLSN18 -◆4X-★★ $534	SXLSN18 -◆4-★★ $594	SXLSN18 -◆3R-★★ $514	SXLSN18 -◆12-★★ $544
50	120V 5 HP 230V 7.5 HP LIST	SXLSN22 -◆0-★★ $354	SXLSN22 -◆1-★★ $554	SXLSN22 -◆4X-★★ $654	SXLSN22 -◆4-★★ $684	SXLSN22 -◆3R-★★ $604	SXLSN22 -◆12-★★ $634
65	120V 5 HP 230V 10 HP LIST	SXLSN30 -◆0-★★ $442	SXLSN30 -◆1-★★ $642	SXLSN30 -◆4X-★★ $742	SXLSN30 -◆4-★★ $772	SXLSN30 -◆3R-★★ $692	SXLSN30 -◆12-★★ $722
95	120V 7.5 HP 230V 15 HP LIST	SXLSN45 -◆0-★★ $596	SXLSN45 -◆1-★★ $936	SXLSN45 -◆4X-★★ $1,072	SXLSN45 -◆4-★★ $1,046	SXLSN45 -◆3R-★★ $984	SXLSN45 -◆12-★★ $996
105	120V 10 HP 230V 20 HP LIST	SXLSN55 -◆0-★★ $690	SXLSN55 -◆1-★★ $1,080	SXLSN55 -◆4X-★★ $1,320	SXLSN55 -◆4-★★ $1,345	SXLSN55 -◆3R-★★ $1,170	SXLSN55 -◆12-★★ $1,270

Replace "◆" with the Appropriate Coil Voltage Code [2)]

AC coil - 60 Hz						
Coil voltage codes	G	A	C	E	F	H
VAC - 50/60 Hz	24	120	208/230	480	600	277

DC coil - (XLSN15- XLSN55)						
Coil voltage codes	M	N	O	P	R	I
VDC	12	24	48	110/125	220	72
$ Adder for DC Coils	**+ $34** XLSN18			**+ $74** XLSN22-XLSN55		

Part # Example:
SXLSN7 - A1-N
LSN7 Contactor
A=120VAC Coil
1=NEMA 1 Enclosure
N=15-23 Amp Overload Range.

Notes: 2) Other voltages available.

Replace "★★" with the Appropriate Overload Suffix

O.L. Relay Setting Range		O.L. Relay Setting Range	
Suffix	(Amps)	Suffix	(Amps)
-C	0.56-0.80	-M	11-17
-D	0.80-1.2	-N	15-23
-E	1.2-1.8	-O	22-32
-F	1.8-2.8	-P	25-40
-G	2.8-4.0	-Q	40-57
-H	4.0-6.3	-QN	50-63
-I	5.6-8.0	-RN	57-70
-J	7.0-10	-SN	63-80
-K	8.0-12.5	-TM	75-97
-L	10-15	-TN	90-112

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XLSN Starters

Starter Additions

Factory Installed Suffixes Lists

Additions or Special Features	Enclosure Type	Catalog Suffix	LSN 4 - 18 XLSN 4 - 18	LSN 22 - 55 XLSN 22 - 55	LSN 75 - 90 XLSN 75 - 90	LSN 110 - 280 XLSN 110 - 280
"Start-Stop" push button.....(Twin Type).....	1	KSS-2	$50	$50	$50	$50
"Start-Stop" push button.....(Twin Type).....	4,12,3R,4X	KSS-3	120	120	120	120
"Hand-Off-Auto" selector switch.....	1	KSL-1	50	50	50	50
"Hand-Off-Auto" selector switch.....	4,12,3R,4X	KSL-3	120	120	120	120
"Start-Stop" push button and "Hand-Off-Auto" selector switch.....	Any	SS-HOA	240	240	240	240
Pilot Light.....	Any	PL	75	75	75	75
E-Stop.....	Any	ESTOP	90	90	90	90
"On-Off" selector switch.....	1	KSN-1	50	50	50	50
"On-Off" selector switch.....	4,12,3R,4X	KSN-3	120	120	120	120
"Forward-Off-Reverse" selector switch.....	Any	FOR	120	120	120	120
"High-Off-Low" selector switch.....	Any	HOL	120	120	120	120
"Forward-Reverse-Stop" push button.....	Any	FRS	200	200	200	200
"Up-Down-Stop" push button.....	Any	UDS	200	200	200	200
"Fast-Slow-Stop" push button.....	Any	FSS	200	200	200	200
Control circuit transformer: With fused primary and secondary 50/60 Hz.....	Any	FT ___ V	$250	$350	$425	$550

Note: Add Primary Voltage after the "FT".

Enclosure Type	Part Numbers	Approximate Overall Dimension H x W x D	List $
NEMA 1 METAL	M01-070405H	7" x 4" x 5"	$105
	M01-100806	10" x 8" x 6"	$110
	M01-121006	12" x 10" x 6"	$130
	M01-161208	16" x 12" x 8"	$315
NEMA 3R METAL	M3R-100806	10" x 8" x 6"	$120
	M3R-121006	12" x 10" x 6"	$145
	M3R-161208	16" x 12" x 8"	$325
	M3R-201608	20" x 16" x 8"	$355
NEMA 4/12 METAL	M4/12-100806	10" x 8" x 6"	$135
	M4/12-121006	12" x 10" x 6"	$175
	M4/12-161208	16" x 12" x 8"	$350
	M4/12-201608	20" x 16" x 8"	$375
NEMA 4X FIBERGLASS	S4X-AM864	8" x 6" x 6"	$155
	S4X-AM1008	10" x 8" x 8"	$185
	S4X-AM1210	12" x 10" x 8"	$230
	S4X-AM1614	16" x 14" x 10"	$410
	S4X-AM2016	20" x 16" x 10"	$525

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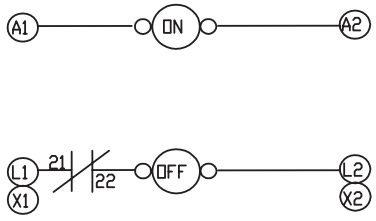
XLSN Starters

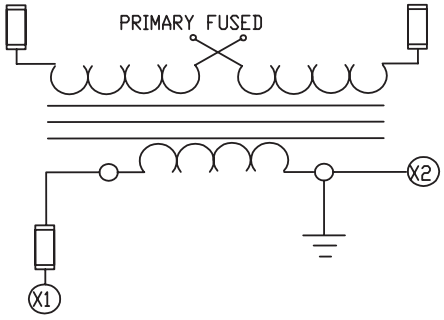
Wiring Diagram
SXLSN & XLSN

OPTIONS

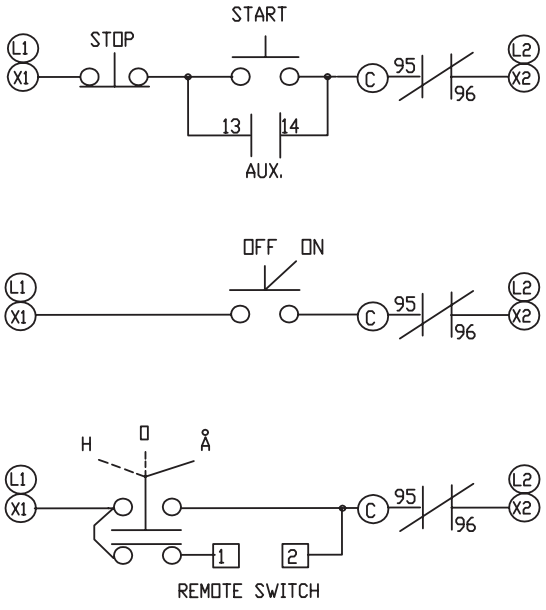
PILOT LIGHTS



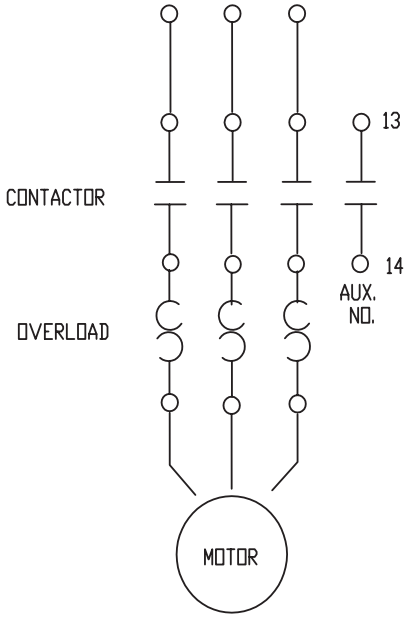
TRANSFORMER



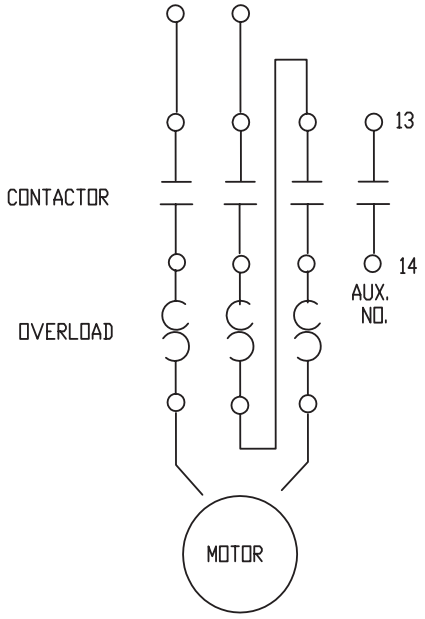
CONTROL CIRCUITS



THREE PHASE



SINGLE PHASE



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Accessories

Auxiliary Contact Blocks

- Rated 10A I_{th}
- UL508 & CSA 22.2 #14 (USA & Canada)
- Positive driven contacts in accordance with IEC 60947-4-1 resp. IEC 60947-5-1

Illustrative picture	For use with	Max. number of contacts/ contactor	Contacts NO	Contacts NC	Terminal Identification	Part #	List $
	LSN4...LSN55	4 - LSN4...LSN11 6 - LSN15...LSN18	1	0		HBXT10	$ 14
			0	1		HBXT01	$ 14
	LSN4...LSN220	8 - LSN22...55 8 - LSN75...LSN220	2	0		HBXS20	$ 26
			1	1		HBXS11	$ 26
	LSN280 LSN375	8 - LSN280...LSN375	1	1		HCXS11	$ 26
			2	0		HCXS20	$ 26
			0	2		HCXS02	$ 26

Surge Suppressors

- Connect directly to coil terminals A1 - A2

Illustrative picture	For use with	Voltage	Description	Part #	List $
	LSN4...LSN18	24 - 48 V 50/60 Hz	RC	HBRCS1-G	$ 30
		50 - 127 V 50/60 Hz		HBRCS1-A	
		130 - 250 V 50/60 Hz		HBRCS1-C	
	LSN22...LSN55	24 - 48 V 50/60 Hz		HBRCS2-G	
		50 - 127 V 50/60 Hz		HBRCS2-A	
		130 - 250 V 50/60 Hz		HBRCS2-C	
	LSN4...LSN55	270 - 380 V 50/60 Hz	Varistor	HBVCS1-D	
		400 - 510 V 50/60 Hz		HBVCS1-E	

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LSN Contactors

Accessories

Individual Spare Coils

Illustrative picture	Description	For use with	Part #	List $
	AC coil	LSN4....LSN11	LNC2-♦	$ 30
		LSN15...LSN18	LNC3-♦	$ 40
		LSN22...LSN55	LCN4-♦	$ 70
	DC coil	LSN15...LSN18	LDN3-♦	$
		LSN22...LSN55	LDN4-♦	$
	Dual-voltage coils AC/DC (contactors with electronic module)	LSN75...LSN90	LCN5-♦	$ 120
		LSN132	LNC6-♦	$ 130
		LSN160...LSN220	LCN7-♦	$
		LSN280...LSN375	LCN8-♦	$

Electronic Module

Illustrative picture	Description	For use with	Part #	List $
	AC/DC	LSN75...LSN220	LCE220-♦ 2)	$ 30
		LSN280...LSN375	LCE375-♦ 2)	$ 40

To Complete the Part #, Replace "♦" with the Appropriate Coil Voltage Code 3)

LSN4 - LSN55

AC coil - 60 Hz						
Coil voltage codes	G	A	C	E	F	H
VAC - 50/60 Hz	24	120	208/230	480	600	277

DC coil - (LSN15- LSN55)						
Coil voltage codes	M	N	O	P	R	I
VDC	12	24	48	110/125	220	72

LSN75 - LSN375

50/60 Hz / DC3)	LSN75- LSN220)				
Coil voltage codes	G	A	C	E	F
50/60 Hz / DC3)	24-28 V	110-130 V	208-250 V	430-500 V	600VAC *

50/60 Hz / DC3)	LSN280- LSN375)		
Coil voltage codes	A	C	F
50/60 Hz / DC3)	100...127 V	200...240 V	440...575 V

Note: 1) Contactors and mechanical interlock are sold separately.
2) The voltage code of the electronic module must be the same as the coil voltage code.
3) Other voltages on request.

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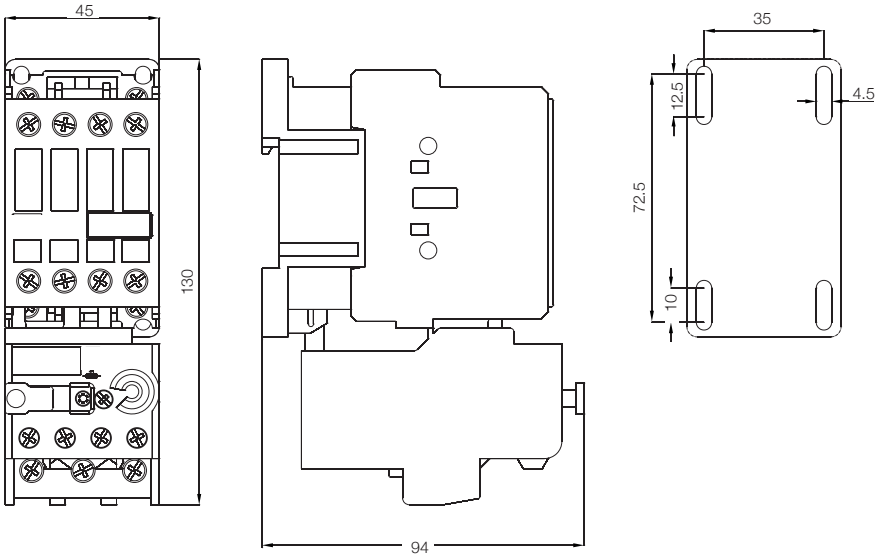
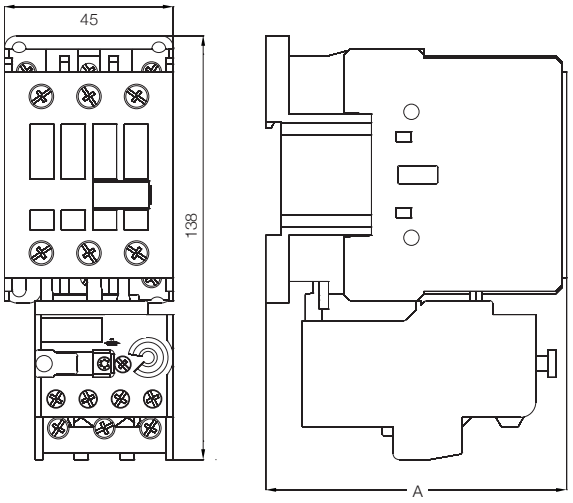
Dimensions (mm)

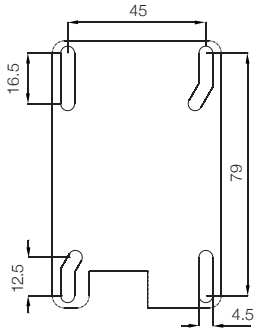
XLSN4....XLSN11



XLSN15...XLSN18

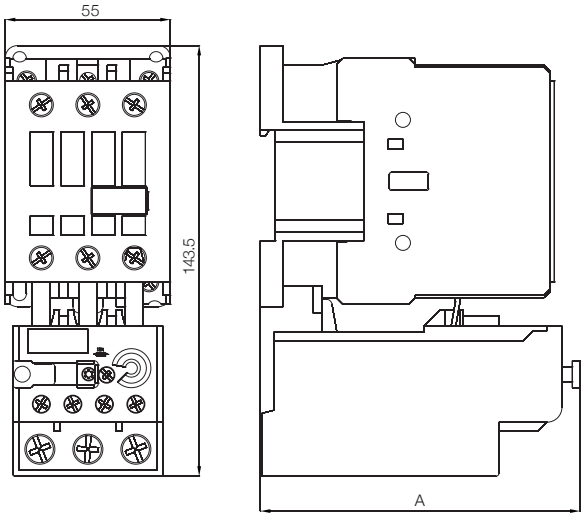
(up to32A overload)

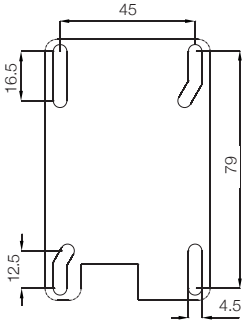




XLSN15...XLSN18	A
AC coil	98
DC coil	118

(40A to 50A overload)





XLSN15...XLSN18	A
AC coil	106.5
DC coil	126.5

EE CONTROLS
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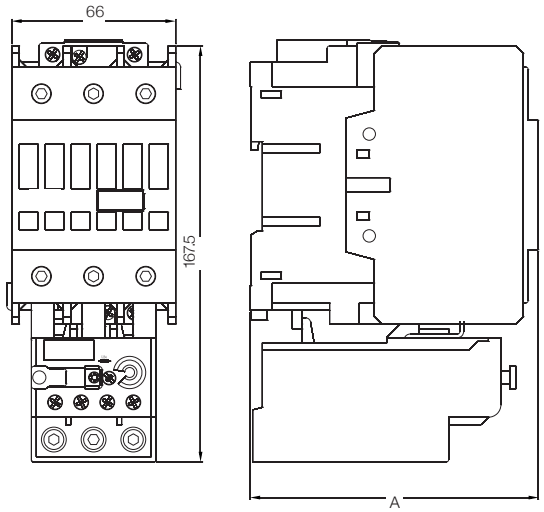
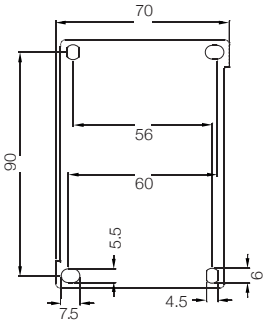
XLSN Starters

Dimensions (mm)

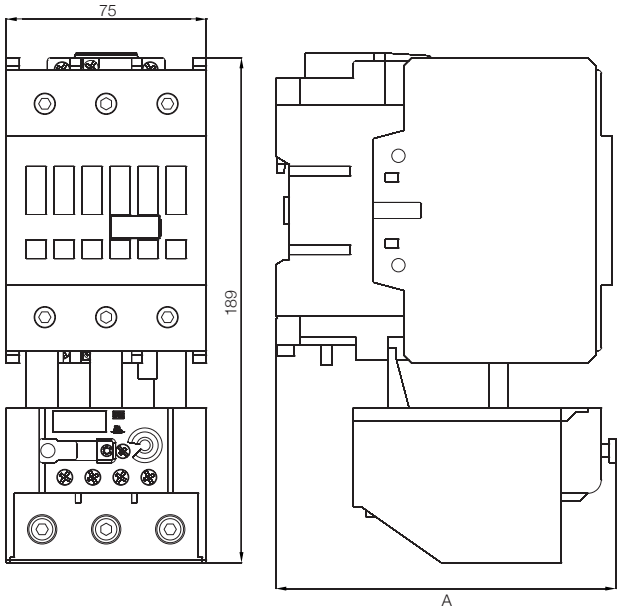
XLSN22...XLSN37

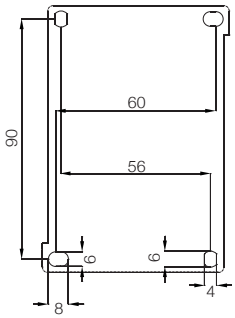




XLSN22...XLSN37	A
AC coil	116
DC coil	116

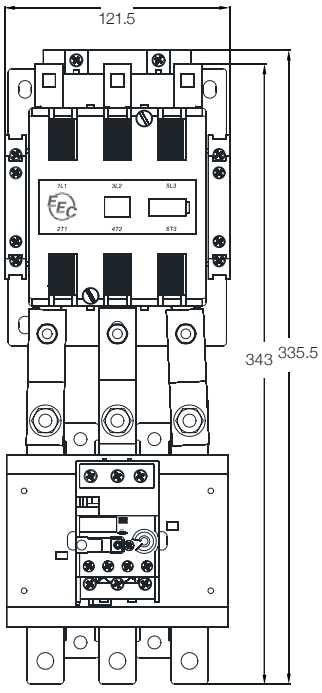
XLSN45...XLSN55

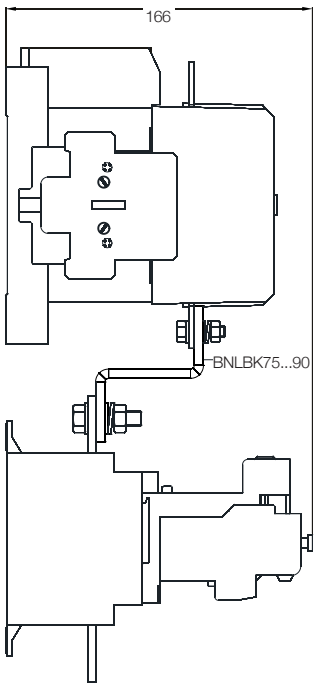


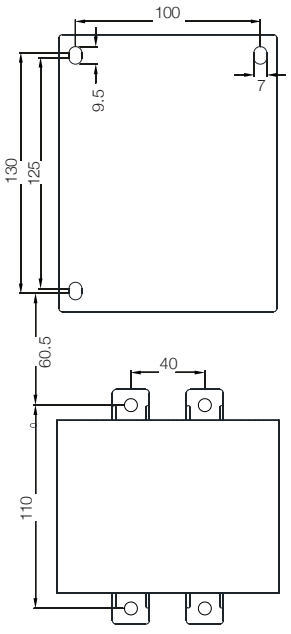


XLSN45...XLSN55	A
AC coil	127.5
DC coil	127.5

XLSN75...XLSN90







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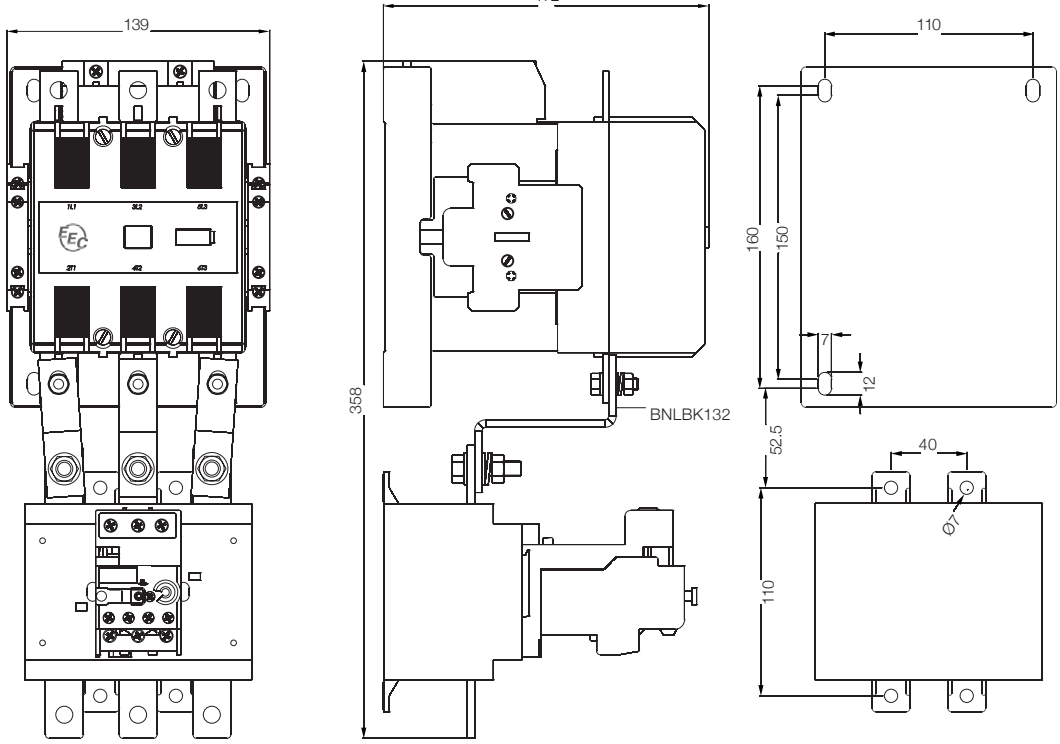
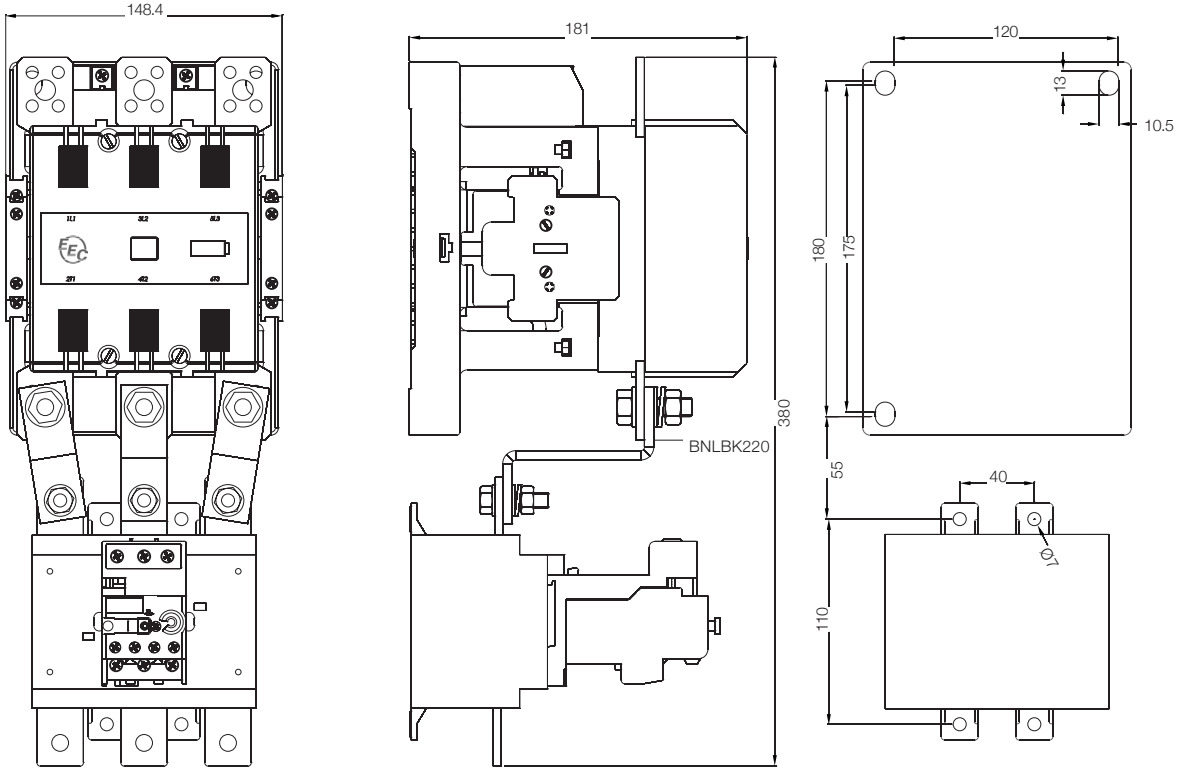
XLSN Starters

XLSN132



XLSN160...XLSN220