



### **Applications:**

- Damp, wet, dirty, dusty areas where ultimate corrosion and ingress protection is required
- Harsh motor control environments, including: refineries, chemical and petrochemical plants, corrosive process facilities, food and beverage, marine and mining
- Across-the-line starting, stopping, speed changing and reversing of polyphased AC induction motors

### **Design Features:**

- Available with solid-state electronic overload providing reliable, accurate and value-driven protection, including communication capabilities, while reducing inventory carrying costs with wide FLA adjustment (5:1) and selectable trip class. And Bi Metallic Thermal overloads.
- Adjustable bimetallic ambient compensated overload relays with interchangeable heater packs available in three basic sizes, covering applications up to 600 HP
- Fixed heater overloads optional
- A full line of snap-on accessories top and side mounted auxiliary contacts, solid-state and pneumatic timers
- Straight through wiring line lugs at top, load lugs at bottom
- Horizontal or vertical mounting on upright panel for application freedom
- Screw type power terminals have captive, backed-out self-lifting pressure plates with ± screws for reduced wiring



- Accessible terminals for easy wiring; optional fingerproof shields available to prevent electrical shock
- Top located coil terminals convenient and readily accessible.
- 45 mm contactor magnet coils have three terminals, permitting either top or diagonal wiring – easy to replace European or U.S. style starters or contactors without changing wiring
- Encapsulated dual voltage/frequency magnet coils - permanently marked with voltage, frequency and part number
- Designed to meet or exceed UL, CSA, IEC, VDE, BS and other international standards and listings

### Certifications

- Type Nema 1,12,3R,4,
- 4X, 4X non-metalic
- ABS Type Approved
- OSHPD Certified (OSP-0015-10)
- Certified Type 2 ordination
- NEMA starters are UL Certified to achieve IEC 947 Type 2 coordination against 100,000A short circuit fault currents

### Standard Materials:

- Enclosure, external hardware 316 stainless steel & Painted Steel
- External latching hardware chromeplated steel
- Internal mounting plate powdercoated steel
- Internal hardware zinc-plated steel

### FATON



### **Electrical Ratings:**

- Motor starters
  - -Single, three-phase
  - -3-pole, non-reversing, full voltage
  - -NEMA sizes 0-8
  - -Up to 600 HP
- Circuit breakers
  - -3-pole, 600 VAC
  - -3A through 1200A
- Disconnect switches
  - -3-pole, 600VAC
  - -15A through 1200A
  - -Fusible and non-fusible
- 100,000 rms short circuit rating (480V breakers, fused disconnects)

### **Construction:**

- Made in the USA
- Robotically applied seamless foamin-place gasket helps assure high performance in environmental conditions.
- Enclosure and door are fabricated from (14) gauge steel
- All continuous welded seams are finished smooth
- Ground provisions provided on all doors, bodies and back panels.
- Door secured to body with robust continuous hinge for performance in all environments
- High strength powder coated, zinc die cast handle provides corrosion resistance Standard pad lockable handle trigger provides secondary security.





# FIT-N SP/KE

## Example Part Number SN4 3 FTPS200 MCB WT 34 S780 A

#### Wiring System **Motor Starter Accessories** SUFFIX 3 - 3 Phase Less overload relays (lighting contactor) CL 1 - Single Phase CM Less overload relays (motor contactor) Starter w/ electronic ground fault overload relay GF voltage Additional control contacts, N.O. or N.C S780 2 - 240V S781 Auxiliary contacts on starter 1 N.O. & 1 N.C 4 - 480V Auxiliary contacts on starter 2 N.O. & 2 N.C S782 6 - 600V Auxiliary contacts on starter 3 N.O. & 3 N.C S783 Solid state overload relay SSOL BI Metallic overlaod relay BI **ETOR** Electronic thermal overload relay

## **SN4 3 FTPS200 MCB WT 34 S780 A**

NEMA SZ		Standard Disconnect Is Thermal Mag Breaker
1	5	ADDER FOR OTHER DISCONNECTS:
2	6	MCP - motor circuit protector
3	7	FD - fused disconnect
4	8	NF - non fused disconnect

Combination & Non-Combination S	Starters
DESCRIPTION	CAT#
Combo Starter N4X 316 SS Rotary	SN4X6SSC
Combo Starter N4X 316 SS Flanged	SN4X6SSCF
Combo Starter N4X Non-Metallic Rotary	SN4XNMC
Combo Starter N4X Non-Metallic Flanged	SN4XNMCF
Combo Starter N4 Carbon Rotary	SN4C
Combo Starter N4 Carbon Flanged	SN4CF
Non-Combo Starter N4X 316 SS	SN4X6SSS
Non-Combo Starter N4X Non-Metallic	SN4XNMS
Non-Combo Starter N4 Carbon	SN4S
Reversing Combo Starter N4X 316 SS Rotary	SN4RX6SSC
Reversing Combo Starter N4X 316 SS Flanged	SN4RX6SSCF
Reversing Combo Starter N4X Non-Metallic Rotary	SN4RXNMC
Reversing Combo Starter N4X Non-Metallic Flanged	SN4RXNMCF
Reversing Combo Starter N4 Carbon Rotary	SN4RC
Reversing Combo Starter N4 Carbon Flanged	SN4RCF
Reversing Non-Combo Starter N4X 316 SS	SN4RX6SSS
Reversing Non-Combo Starter N4X Non-Metallic	SN4RXNMS
Reversing Non-Combo Starter N4 Carbon	SN4RS

AC Coil Suffix Symbol	
* PLACE A DASH (-) BETWEEN EACH	
OPTION IN THE ORDER LISTED BELOW	1
120/60 or 110/50	Α
240/60 or 220/50	В
480/60 or 440/50	С
600/60 or 550/50	D
DC Coil Suffix Symbol	
12VDC	F
24VDC	G
48VDC	M
120VDC	Р
Legend Plates	
* SEE PAGE 4	

Brand	Sufix
Cutler-Hammer	WT
Square D	D
LG/LS Economical \ 2 yr warranty	LS

Enclosure Modifications &	Cat #
Accessories	
<ul> <li>Control Circuit Transformer, 100VA for NEMA/EEMAC sizes 0–2, 600/480/240–120, 50 / 60 Hertz, with provision for fusing both primary leads and one secondary lead (fuses not provided)</li> </ul>	FTPS100
Control Circuit Transformer, 200VA for NEMA/EEMAC size 3, 600/480/240–120, 50 / 60 Hertz, with provision for fusing both primary leads and one secondary lead (fuses not provided).	FTPS200
Control Circuit Transformer, 300VA for NEMA/EEMAC size 4, 5 600/480/240–120, 50 / 60 Hertz, with provision for fusing both primary leads and one secondary lead (fuses not provided)	FTPS300
Control Circuit Transformer, 500VA for NEMA/EEMAC 600/480/240–120, 50 / 60 Hertz, with provision for fusing both primary leads and one secondary lead (fuses not provided)	FTPS500
Pilot light, 120VAC, red jewel, w/blank indicating plate	J1
Pilot light, 120VAC, green jewel, w/blank indicating plate	J3
Pilot light, 120VAC, blue jewel, w/blank indicating plate	J11
Pilot light, 120VAC, amber jewel, w/blank indicating plate	J6
LED pilot lights (in place of standard incandescent lamps)	LED
Pilot light push to test, 120VAC, Red or Green *R or G	J3PT
Pilot light push to test, 120VAC, Amber Run Wired to coil	J4PT
Start-Stop pushbuttons	PB23
On-Off selector switch	RR2
Hand-Off-Auto selector switch	RR3
E-Stop Mushroom head	RR4
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. breather & drain, Class 1, B, C & D; Class 11, E, F & G; Class 111	S756V
12 Point term. block - 30 Amp, 300V	S786
12 Point term. block - 30 Amp, 300V Unwired	S786U
Interposing relay, 2 pole 2 NO 4 NC., coil 120VAC	IR
General purpose control relay, 4 pole N.O., contacts rated 10Al600V, coil 120VAC	GCR
General purpose control relay, 8 pole 4 NO 4 NC., coil 120VAC	GCR8
Solid State- ON Delay Timer (1-30 secs)	ST4
Solid State- ON Delay Timer (1-300 secs)	ST5
Time delay Relay 2 min maximum ON Delay	TD1
Time delay Relay 2 min maximum OFF Delay	TD2
Time delay low voltage release relay	TDR
Viewing Window	VW
Transpearant clear door (Non Metallic only)	CD
Dhata Call	DO

PC

Additions to the circuit breaker or Fused/nonfudisconnect	sed
Ambient compensated circuit breaker trip setting	AC
Auxiliary switch on Circuit Breaker 1A and 1B contacts	S784
Auxiliary switch on Circuit Breaker 2A and 2B contacts	S785
Shunt trip on Circuit Breaker	S87
Bell Alarm on Circuit Breaker	S88
100kAIC rated Circuit Breaker in lieu of 65kAIC rated Circuit Breaker	S19

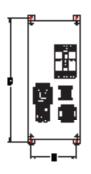
Photo Cell

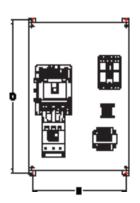
Ground Fault Protection Relay

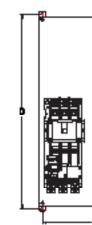
<sup>\*</sup> PLACE A DASH (-) BETWEEN EACH OPTION IN THE ORDER LISTED ABOVE



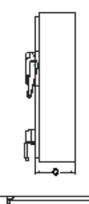


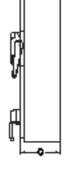


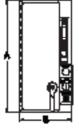


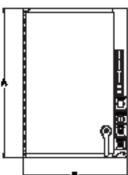


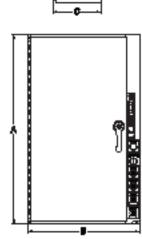












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В

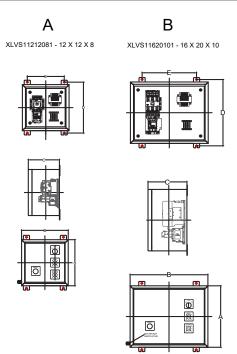
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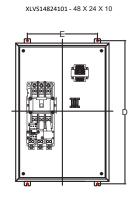
Enclosure		Nominal Dimensions In Inches				
Cat#	Flgure	A	В	С	D	E
SIZE 0 COMBO	Α_	28.98	12.875	9	30.24	11.3
SIZE 1 COMBO	А	28.98	12.876	10	30.24	11.3
SIZE 2 COMBO	A	28.98	12.875	11	30.24	11.3
SIZE 3 COMBO	В	36	24.75	9	37.26	23.12
SIZE 4 COMBO	В	36	24.75	10	37.26	23.12
SIZE 5 COMBO	С	46	26	10.68	47.26	24.426



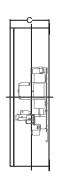


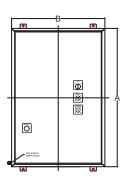
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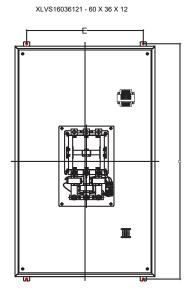


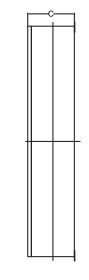


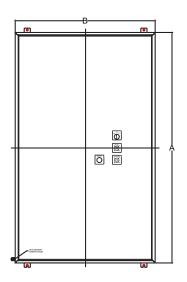
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ENCLO	SURE	NOMIN	AL INSIDE	DIMENSIONS	NOMI	NAL DIMENS	SIONS IN IN	ICHES	
SIZE	FIG	W	Н	D	Α	В	С	D	Е
0	а	12	12	8	12	12	8	13.26	9.5
1	а	12	12	8	12	12	8	13.26	9.5
2	а	12	12	8	12	12	8	13.26	9.5
3	b	16	20	10	16	20	10	17.25	14
4	С	48	24	10	48	24	10	49.26	18.016
5	С	48	24	10	48	24	10	49.25	18.016
6	d	60	36	12	60	36	12	61.25	30





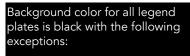
### **Legend Plates:**

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

Two Function Legen	d 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			



MARKING	CAT. #
Start	Green
Stop	Red
Emerg.Stop	Red
For-Off-Rev	DSL40
Hand-Off-Auto	DSL39
Run-Off-Jog	DSL38























### **RFQ Questionnaire**

Customer:		End User:	
Project:		Location:	
Prepaired By:		Date://	
Quotation For: Estimate/E	Budget Immediate Buy		
Quotation Date Required:	<i>_</i>	Material Date Required:/	/
Notes:			
For Motor Starters:		Enclosure Types:	
System Voltage  480 V  240 V  Other:  Control Voltage  120  Other:  Main Disconnects:  Manufacturer:  Disconnect Switch  Fused Disconnect Switch  Motor Circuit Protector	☐ Motor HP ☐ Three Phase ☐ Single Phase ☐ Circuit Breaker T/M ☐ C/B Amp RatingAMP	NEMA □1 □12	Outdoor Rain Proc Outdoor Rain Proc Outdoor Rain Proc & Corrosion Rsistant Plastic  NEMA 4 NEMA 4X
Starter(s):  Manufacturer:  Type:  NEMA  IE	EC	FVNR & FVR Motor Starters  Motor Soft Starters  Manual Disconnect Switches	_
CPT for 120 volt Control Power  Optional Controls:  Start / Stop Push Button Hand - Off _ Auto Selector Sw Pilot Light FVNR Full Voltage Non Revers Other: Soft Start:	RVSS Reduced  RVSS Reduced  FVR Full Voltag  Two Speed Mo	Voltage Solid State Starter e REVERSING Starter tor (2S2W/2S1W)	