

 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 layout
- 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



### **Electrical Ratings:**

- Motor starters
  - -Single, three-phase
  - -3-pole, non-reversing, full voltage
  - -NEMA sizes 0-8
  - -Up to 600 HP

#### Construction:

- Made in the USA
- Robotic-ally applied seamless foam-in-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.

## **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 time

#### 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



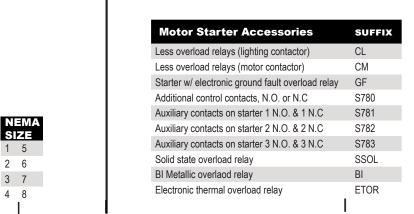


# EAT•N

**Enclosure Modifications &** 

#### **Example Part Number**

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



**FTPS200** 3 SN4

2

WT

**S780** 34

Combination & Non-Combination Starters			
DESCRIPTION	CAT#		
Non-Combo Starter N4X 316 SS	SN4X6SSS		
Non-Combo Starter N4X Non-Metallic	SN4XNMS		
Non-Combo Starter N4 Carbon	SN4S		
Reversing Non-Combo Starter N4X 316 SS	SN4RX6SSS		
Reversing Non-Combo Starter N4X Non-Metallic	SN4RXNMS		
Reversing Non-Combo Starter N4 Carbon	SN4RS		

Brand	Sufix
Cutler-Hammer	WT
Square D	D
LG/LS Economical \ 2 vr warranty	15

		ing stem	
3	-	3 Phase	

- Single Phase

voltage - 240V

4 - 480V 6 - 600V

#### **AC Coil Suffix Symbol** \* PLACE A DASH (-) BETWEEN FACH

DC Cail Suffix Symbol		
600/60 or 550/50	D	
480/60 or 440/50	С	
240/60 or 220/50	В	
120/60 or 110/50	Α	
TE TOE TO BOTH ( ) BETWEEN BYOTH		

12VDC 24VDC G 48VDC М 120VDC Ρ

Legend Plates SEE PAGE 4

#### Cat # **Accessories** Control Circuit Transformer, 100VA for NEMA/EEMAC sizes 0-2, 600/480/240-120, 50 / 60 Hertz, with provision FTPS100 for fusing both primary leads and one secondary lead (fuses not provided) Control Circuit Transformer, 200VA for NEMA/EEMAC size 3, 600/480/240-120, 50 / 60 Hertz, with provision for FTPS200 fusing both primary leads and one secondary lead (fuses not provided). Control Circuit Transformer, 300VA for NEMA/EEMAC size 4, 5 600/480/240-120, 50 / 60 Hertz, with provision FTPS300 for fusing both primary leads and one secondary lead (fuses not provided) Control Circuit Transformer, 500VA for NEMA/EEMAC 600/480/240-120, 50 / 60 Hertz, with provision for fusing FTPS500 both primary leads and one secondary lead (fuses not provided) 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 .16 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 R44 Space heater, 480 Volt, 25 Watts S1 Automatic reset overload relay Insulated neutral w/2 connectors S146 Std. breather & drain, Class 1, B, C & D; Class 11, E, F S756V & G; Class 111 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 **GCR** rated 10A!600V, coil 120VAC General purpose control relay, 8 pole 4 NO 4 NC., coil GCR8 120VAC 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 TDR Time delay low voltage release relay Viewing Window VW CD Transpearant clear door (Non Metallic only) Photo Cell PC

**Ground Fault Protection Relay** 

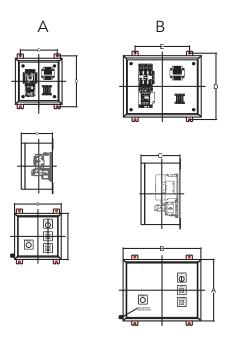
GF

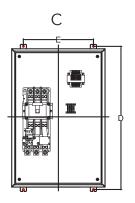
Revision Date: 7/27/2023

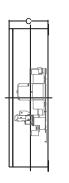


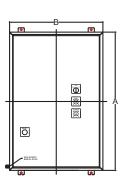


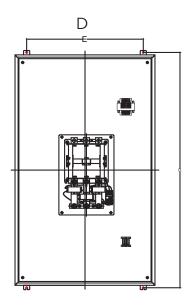


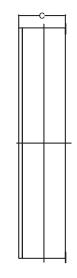


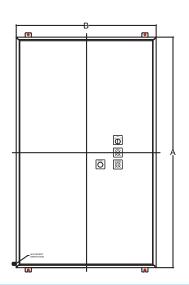












Revision Date: 7/27/2023

ENCLO	SURE	NOMIN	AL INSIDE	DIMENSIO	NS NOMI	NAL DIMEN	SIONS IN IN	NCHES	
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 Legion	gend
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

Two Function Leg	end 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 Le	egend
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

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

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















DSL22

Up









# **RFQ** Questionnaire

Customer:	End User:			
Project:	Location:			
Prepaired By:	Date:/			
Quotation For: Estimate/Budget Immediate Buy				
Quotation Date Required:/	Material Date Required://			
Notes:				
For Motor Starters:	Enclosure Types:			
System Voltage  480 V	□ NEMA □1 □12	Outdoor Rain Proof Outdoor Rain Proof Outdoor Rain Proof & Corrosion Rsistant		
Manufacturer:	Standard Products:			
Type:   NEMA   IEC  CPT for 120 volt Control PowerVA	<ul><li>☐ Manual Motor Starters</li><li>☐ FVNR &amp; FVR Motor Starters</li></ul>			
Optional Controls:  □ Start / Stop Push Button □ Hand - Off _ Auto Selector Switch □ Pilot Light □ FVNR Full Voltage Non Reversing Starter □ RVSS Reduced Voltage Solid State Starter □ FVR Full Voltage REVERSING Starter □ Two Speed Motor (2S2W/2S1W) □ Other: □ Soft Start: Manufacturer:	<ul> <li>□ Motor Soft Starters</li> <li>□ Manual Disconnect Switches</li> <li>□ Circuit Breaker Disconnects</li> <li>□ Custom Distribution Panels</li> <li>□ Standard Distribution Panels</li> </ul>			