

STAHL



### Features:

- Enclosures made of stainless steel for excellent corrosion resistance
- Class I, Division 2, Class I, Zone 1 certified designs
- Attractive space efficient design
- Up to 70% labor savings costs compared to explosion proof models
- Up to 70% less weight compared to explosion proof models
- No Conduit Seals Required
- Available as
  - Combination Starter
  - Manual Starter
  - Reversing Starter
  - Across the Line Starter
- Globally Certified\* One part number provides Class I Division 2, AEx, ATEX, and IECEx certifications
- A variety of pushbuttons, control switches, and pilot lights available to customize your solution

\*8150 models only



**CLASSIFICATIONS**

**7150/5- Fused Disconnects**

Class I, Division 2, Groups A,B,C,D T4  
Enclosure 3, 4, 4x, IP 66

CEC- Class I, Division 2, Groups A,B,C,D T4  
Enclosure type 3,4,4x; IP 66

File No. 3050071

Ambient Temperature Range  
+40°C (+104°F) Max.  
-20°C (-4°F) Min.

**CLASSIFICATIONS**

**8150/5-\* Nonfused**

NEC- Class I, Zone 1 AEx de IIC T\* Gb  
Class I, Division 2, Groups A,B,C,D  
Class II, Divisions 1 and 2, Groups E,F,G  
Enclosure 3, 4, 4x, IP 66

CEC- Class I, Zone 1 Ex de IIC T\* Gb  
Class I, Division 2, Groups A,B,C,D  
Class II, Division 1 Groups E,F,G  
Enclosure type 3,4,4x; IP 66

File No. 3050071

Ex de IIC T\* Gb  
Ex tb IIIC T\*  
IECEX- PTB 09.0049

ATEX- Ex II 2G Ex de IIC T\* Gb  
Ex II 2D Ex tb IIIC T\*  
PTB 09 ATEX 1109

Ambient Temperature Range for 16A T6  
+40°C (+104°F) Max.  
-20°C (-4°F) Min.

Ambient Temperature Range for 25A-125A T5  
+40°C (+104°F) Max.  
-40°C (-40°F) Min.



**8006 HP Rated Switching Device**

**Manual Motor Starter (Without Overload Protection)**

**Unique Advantages:**

- Horse power rated switching device
- Available with FRP enclosure \*\*
- Multi-level switching up to 12 pole \*\*
- Ability to control multiple motors \*\*
- Consult factory for multiple motor de-ratings requirements and additional HP ratings

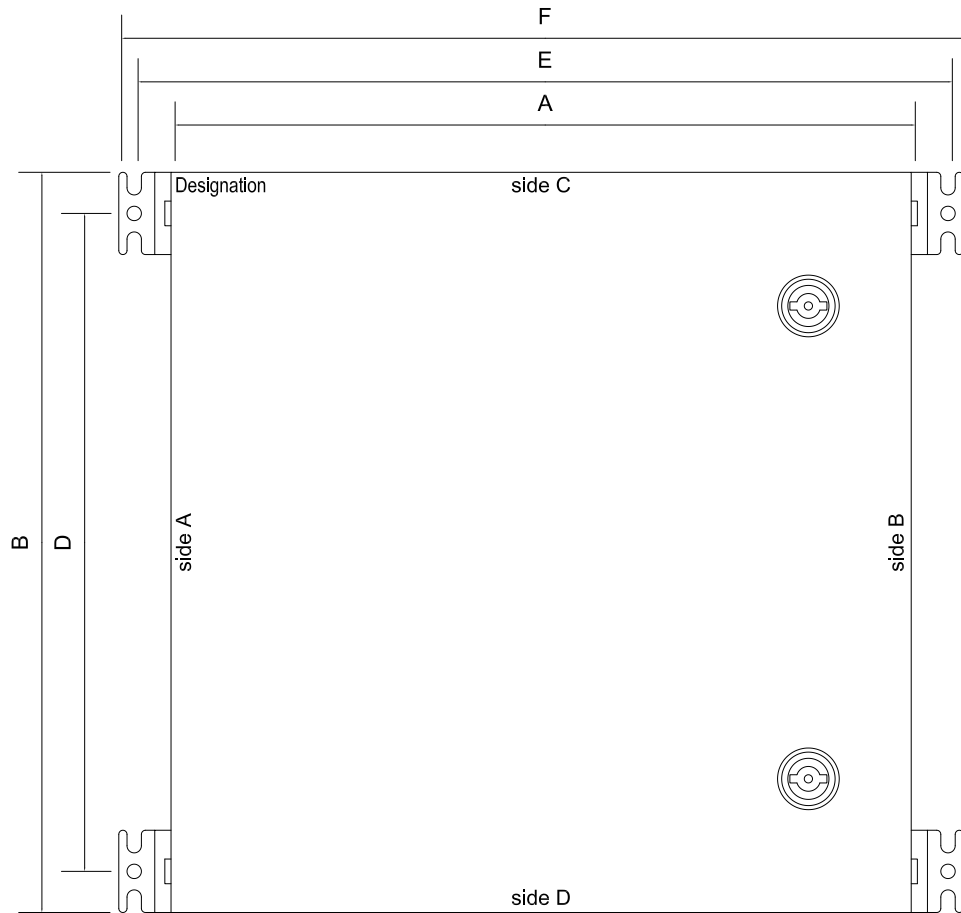
\*\* Consult Factory

**Technical Data**

		<b>16 AMP.</b>	<b>25 AMP.</b>
RATED VOLTAGE	AC	600	600
RATED VOLTAGE	DC	220	125
HORSE POWER	600VAC	10	15
	480VAX	10	15
	240VAC	5	7.5
	120VAC	2	3
	60VDC	-	-
	125VDC	-	3(2)*
	240VDC	-	5(3)*
TERMINALS	AWG	12	8
	STRANDED (mm <sup>2</sup> )	1.5	10
BACK-UP FUSE (Required)	Class J	20 MAX	40 MAX

\*The numbers within brackets indicate how many switch contacts need to be wired in series to achieve the indicated horsepower ratings in DC application.



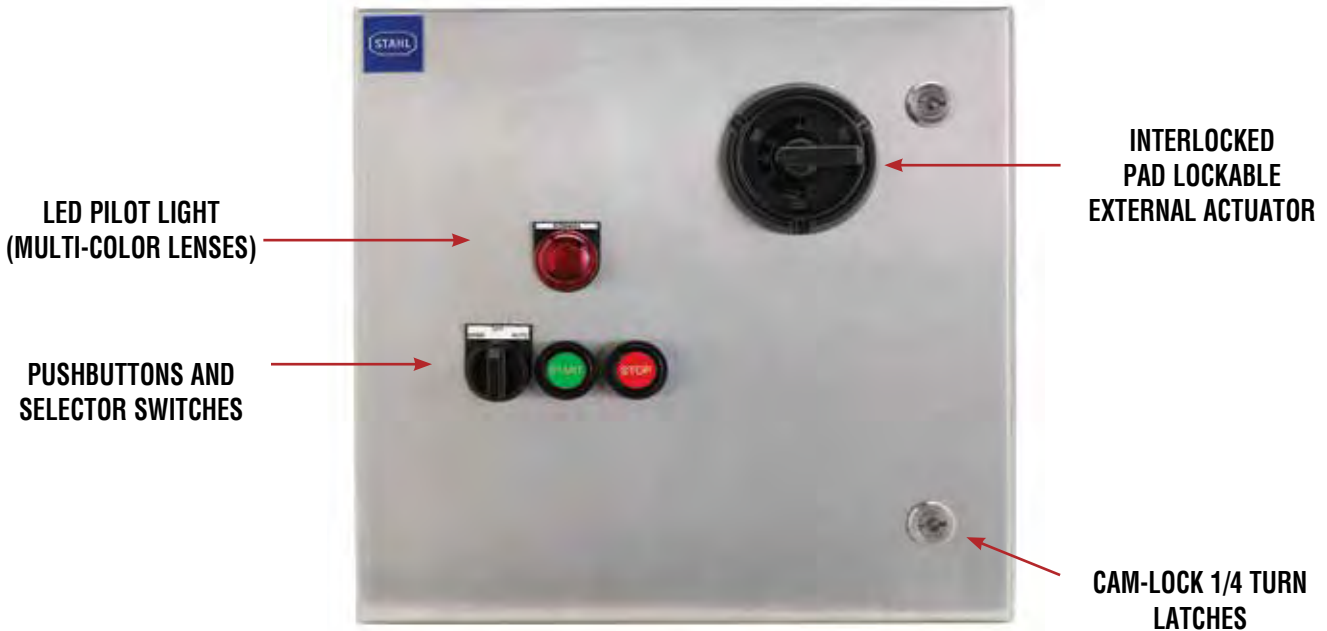


Catalog Number & Description	A	B	C	D	E	F
8150/5-037-05-100-000-00	176 (6.9")	236 (9.3")	150 (5.9")	196 (7.7")	212 (8.3")	228 (9")
10HP, 16A @ 480V						
8150/5-037-05-150-000-00	176 (6.9")	236 (9.3")	150 (5.9")	196 (7.7")	212 (8.3")	228 (9")
15HP, 25A @ 480						

**Applications:**

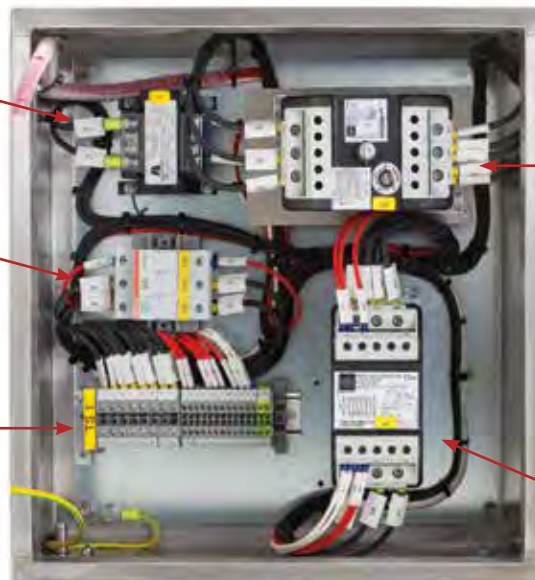
- Combination and non-combination motor starters are used in areas where hazardous materials are processed, handled or stored.
- These units provide disconnecting means, circuit protection, and motor running protection.
- For general motor control and circuit protection – indoors and outdoors – in damp, wet, dirty, dusty hazardous locations without the need for a protective shelter
- In areas where frequent washdowns are necessary or where heavy rain or water spray is prevalent
- For across-the-line starting, stopping, and reversing of polyphase AC induction motors
- To provide line disconnect means and short circuit protection
- To provide motor overload and short circuit protection
- For service entrance, feeder or branch circuit protection for lighting, heating, appliance and motor circuits

**316L STAINLESS STEEL  
ENCLOSURE RATED FOR NEMA  
4X & IP66**



**Features:**

- Motor Starter Component Ex Certification: 8523 series Motor Circuit Protectors and 8510 series Contactor are engineered, designed and manufactured as explosion protected components certified for ATEX / IECEx Zone 1, and Class I, Division 2.
- Enhanced Corrosion Resistance: 7150/8150 series enclosures are constructed of 316L stainless steel which are NEMA 4X and IP66 for better corrosion protection in offshore saltwater and petro-chemical environments.
- Available up to 15 HP at 480 VAC and up to 20 HP at 600 VAC.
- 70% Labor Cost Savings:
  - 7150 / 8150 motor starters come prewired from factory and the only field installation required is the termination of load & line side cables to the provided power terminal blocks.
  - Enclosure openings can be punched in the field or come factory pre-punched.
  - No sealing fittings are required at the enclosure resulting in significant labor savings.
- Up to 70% Less Weight :
  - Up to 70% lower weight for ease of installation compared to explosion proof cast aluminum enclosures.
  - Cam-Lock fasteners can be unlatched with quarter turn versus multi turn bolts.
- Ease of Maintenance:
  - 7150 / 8150 series 316L stainless steel cover comes standard with two hinges and two Cam-Lock fasteners as opposed to up to 22 bolts fasteners.
- External Actuators: Can be pad-lockable in ON or OFF position

**CONTROL TRANSFORMER****FUSE HOLDERS****INCREASED SAFETY  
TERMINAL BLOCKS FOR  
POWER AND CONTROL  
CIRCUITS  
(EASY TO WIRE)****MOTOR CIRCUIT PROTECTOR  
(EXPLOSION PROTECTED)****CONTACTOR  
(EXPLOSION PROTECTED)****PRE-WIRED (SIMPLY CONNECT  
INCOMING AND OUTGOING WIRES TO  
THE TERMINALS)**





**Catalog Construction Logic**

a	150 / 5 - K03702	bb	ccc	ddd	ee	ff*
Version	150 / 5 - K03702	Motor Starter	Starter Size	Control Voltage	Entries	Options
<b>a</b>	<b>Version</b>					
	7 = Class I, Division 2 8 = Class I, Zone 1 Global Certification AEx, ATEX / IECEx, Class I, Div. 2					
<b>bb</b>	<b>Motor Starter Type</b>					
	01 = Across the Line (DOL) 02 = Combination 03 = Reversing 04 = Manual 05 = Fuse Combination 7150 Series Only					
	<b>Starter Size (based on 480 VAC)</b>					
	050 = 5.0 hp 075 = 7.5 hp 100 = 10.0 hp 150 = 15.0 hp 999 = According to Specification					
	<b>Control Voltage</b>					
<b>ddd</b>	024 = 24 VAC 120 = 120 VAC 240 = 240 VAC 999 = According to Specification 000 = None (manual starter)					
	<b>Entries</b>					
<b>ee</b>	00 = No Entries 01 = Plugged Holes 02 = Conduit Hubs 03 = Armored Cable Glands 04 = Unarmored Cable Glands					
	<b>ff*</b>  ** List All That Apply	<b>Options</b>				
Z1CVT055 = 55VA (480/120) control transformer, 8150 only Z1CVT075 = 75VA (480/120) control transformer, 8150 only Z1CVT115 = 115VA (480/120) control transformer, 8150 only Z1CVT150 = 150VA (480/120) control transformer, 8150 only Z1CVT200 = 200VA (480/120) control transformer, 8150 only CVT075 = 75VA (480/120) control transformer, 7150 only CVT100 = 100VA (480/120) control transformer, 7150 only CVT150 = 150VA (480/120) control transformer, 7150 only CVT200 = 200VA (480/120) control transformer, 7150 only S273 = Hand-Off-Auto switch S052 = On-Off switch U231 = Start-Stop button PLA = Pilot Light Amber PLG = Pilot Light Green PLR = Pilot Light Red AM = Ammeter HTR50 = 50W Space Heater, 7150 Only HTR80 = 80W Space Heater, 7150 Only Z1HTR50 = 50W space heater, built suitable to Class I, Zone 1 Z1HTR80 = 80W space heater, built suitable to Class I, Zone 1 BD55 = Breather/Drain (IP55) BD66 = Breather/Drain (IP66)						

**CLASSIFICATIONS 7150/5 Series**

NEC- Class I, Division 2 Groups B, C, D  
Class II, Division 2 Groups F, G  
Class III  
Enclosure Type 3, 4, 4X; IP66

CEC- Class I, Division 2 Groups B, C, D  
Class II, Division 2 Groups F, G  
Class III  
Enclosure Type 3, 4, 4X; IP66

Ambient Temperature Range:  
+40°C (+104°F) Max.  
-20°C (-4°F) Min.

Consult Factory for lower Temp (-40°C)

**CLASSIFICATIONS 8150/5 Series**

NEC- Class I, Zone 1 AEx de IIC T4 Gb  
Class I, Division 2 Groups B, C, D  
Class II, Division 2 Groups F, G  
Class III  
Enclosure Type 3, 4, 4X; IP66

CEC- Class I, Zone 1 Ex de IIC T4 Gb  
Class I, Division 2 Groups B, C, D  
Class II, Division 2 Groups F, G  
Class III  
Enclosure Type 3, 4, 4X; IP66

II 2G Ex de IIC T6  
PTB 09 ATEX 1109

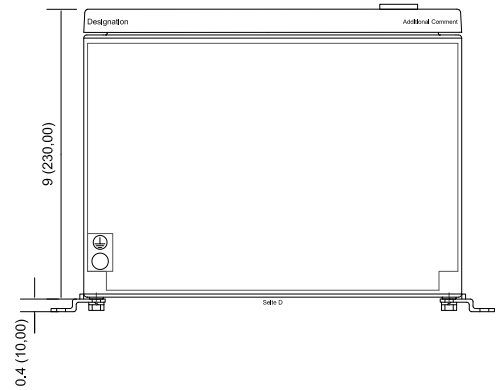
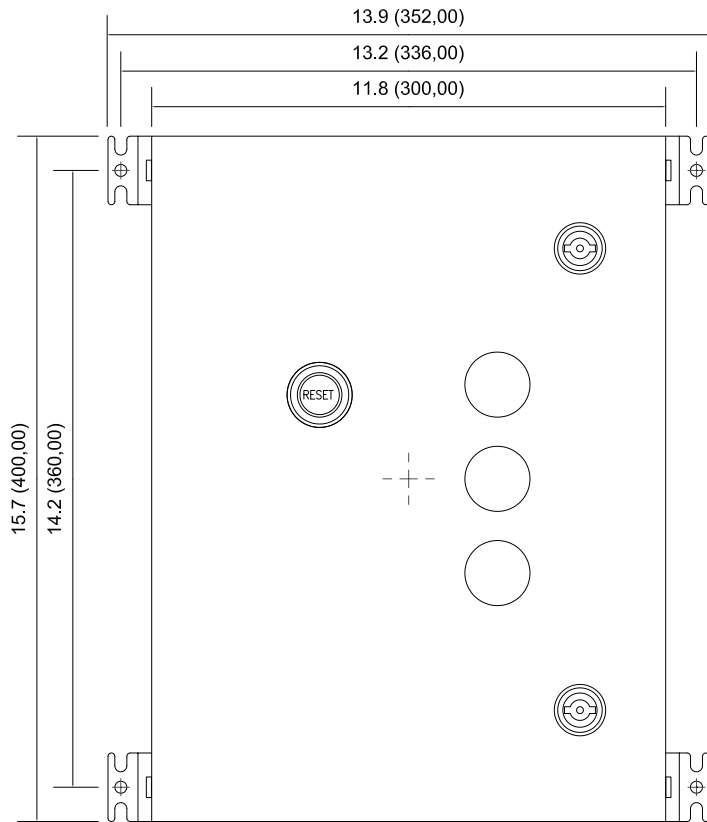
II 2D Ex tD A21 IP66, T80°C

IECEX  
Ex de IIC T6  
Ex tD A21 IP66 T80°C  
IECEX PTB 06.0090

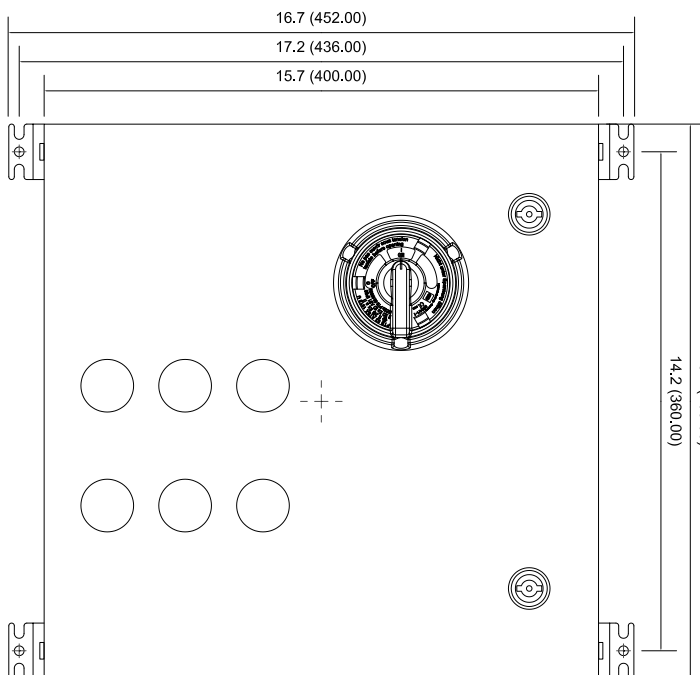
Ambient Temperature Range:  
+40°C (+104°F) Max.  
-20°C (-4°F) Min.

Consult Factory for lower Temp (-40°C)

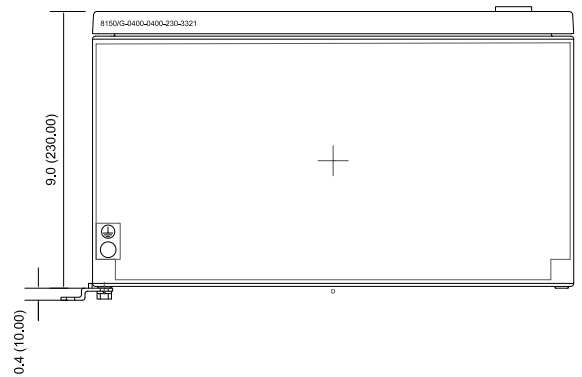


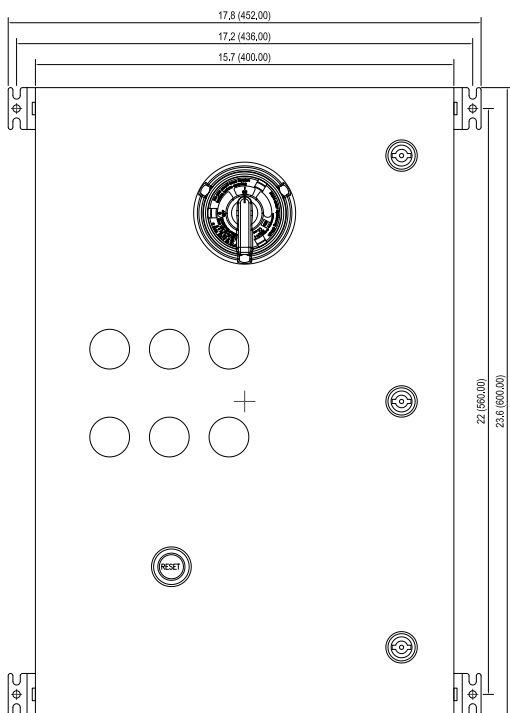


**ACROSS THE LINE STARTER**

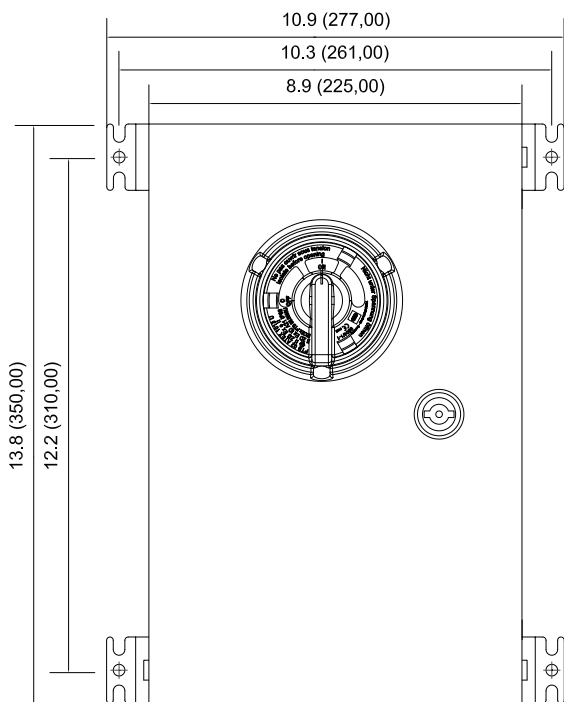
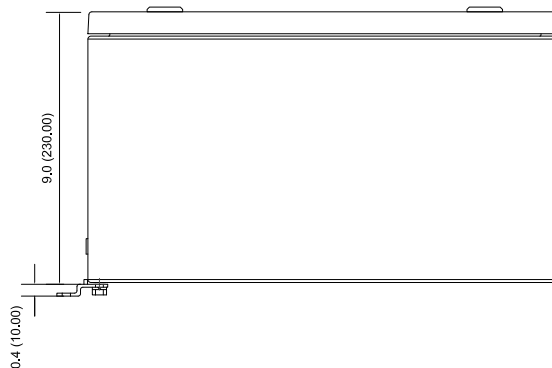


**COMBINATION STARTER**





**FUSED COMBINATION STARTER OR REVERSING STARTER**



**MANUAL MOTOR STARTER**

