PowerStream

Solutions

UL891 LOW VOLTAGE SWITCHBOARDS, UPS BYPASS & PARALLELING BOARDS, GENERATOR TAP BOXES, LOAD BANK BOARDS, TRANSFORMERS, UNIT SUBSTATIONS, ELECTRICAL SKIDS



Application driven designs. On time. Every time.

Manufacturing Locations: Aledo, TX
Geographical Coverage: United States & Canada

Email: support@powerstreamsolutions.com
Phone: (817) 661-8056

www.powerstreamsolutions.com

www.linkedin.com/company/powerstreamsolutions

About Us

PowerStream Solutions was established with a clear vision: to be the trusted partner in the electrical distribution industry by meeting the urgent demand for increased capacity to support critical power. At PowerStream Solutions, we do everything in-house—including engineering, fabrication, and assembly. With two manufacturing locations, we are equipped to produce at scale.











Our Promise

At PowerStream Solutions, we promise to put our customers' needs first. We commit to delivering only the solutions we are equipped to execute with excellence. You can count on us for high-quality equipment, industry-leading speed, and best-in-class on-time delivery.





PowerStream Solutions UL 891 Switchboards

PowerStream PSB™

PowerStream Solutions understands the critical role that reliable electrical distribution plays in your operations.

Engineered to exceed industry standards, our UL 891 Switchboards enhance reliability and power your infrastructure forward.

System Voltage
208Y/120V, 208V, 480Y/277V, 480V, 600Y/347V, 600V

Frequency
60 Hz

Ampacity Range
Up to 5000A

Short Circuit Rating (SCCR)
Up to 200kAIC

Bus Material
Copper, Aluminum (Tin or Silver Plated)

Neutral Rating
100%

Breaker Options
Square D MasterPact & PowerPact

Incoming Connections
Cable Lugs, Busway Flange, Close-Coupled Transformer

Standards
UL 891

Cooling
Air-Cooled Convection

Operating Temperature
0 to 40˚C

Storage Temperature
-40 to 60˚C

Seismic
Calculated Per Engineered Solution

Modular Design for Flexibility:

The modular design of our switchboards allows for easy customization to meet the specific needs of your facility.

Factory Testing

- UL891
- Primary Injection testing of all ground fault systems
- Commissioning level testing of all products prior to shipment

Advanced Safety Features:

Safety is our top priority. Our UL 891 Switchboards can be equipped with advanced safety features, including:

- MMS
- ERMS
- Fault detection
- Overload protection
- Short-circuit prevention

UL 891 Certification:

Our switchboards comply with the rigorous safety and performance standards set by Underwriters Laboratories (UL), ensuring that your electrical systems are of the highest quality and reliability.

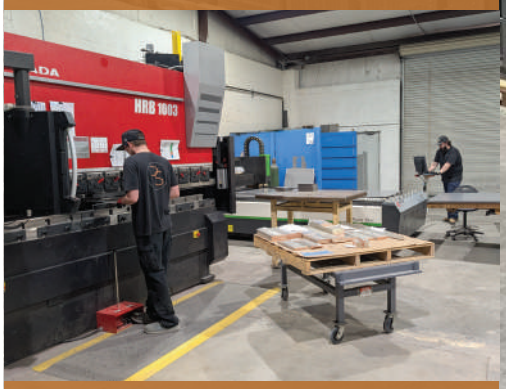
Reliability and Quality:

With our UL 891 Switchboards designed and built by PowerStream Solutions utilizing Schneider Electric components, you can count on rugged construction and high-quality components ensuring reliability even in the most demanding environments.

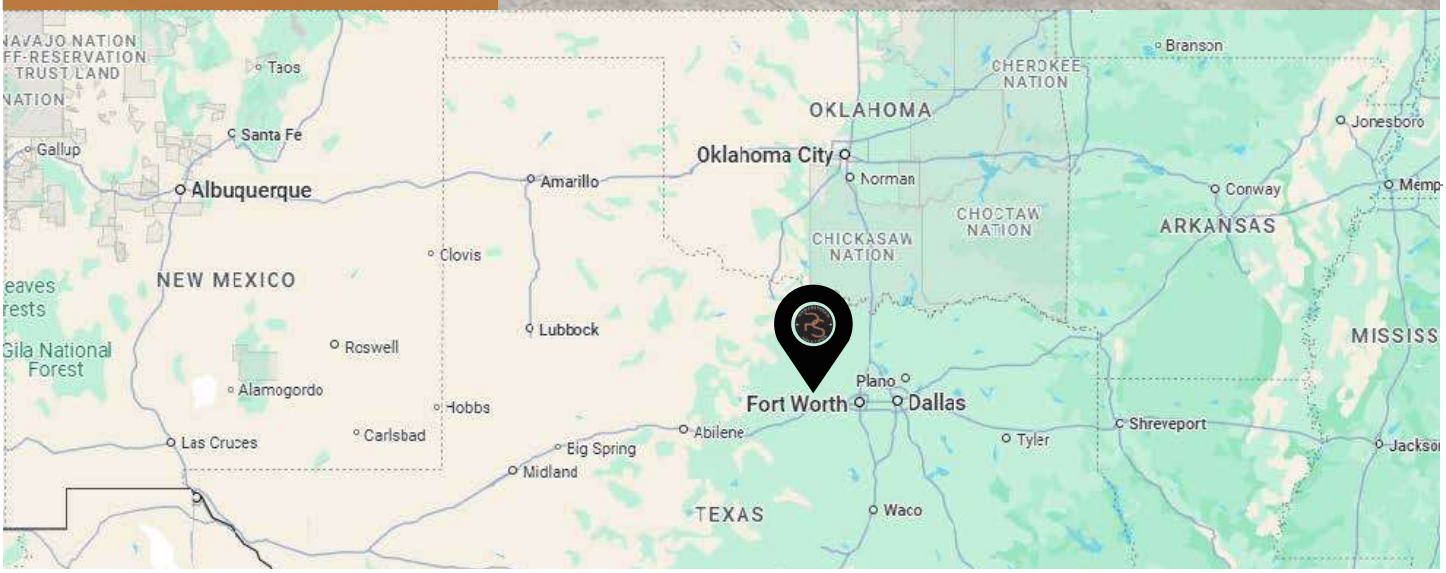
For more information and quotation requests, contact:
support@powerstreamsolutions.com

Our Facilities

- ✔ 48,000 Sq. Ft in Aledo, TX
- ✔ Full Sheet Metal and Copper Fabrication:
  - Press Brake
  - CNC Laser
  - CNC Shear
  - CNC Punch
  - Powder Coat







PowerStream
Solutions

1151B Underwood Rd
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11518 Underwood Road Aledo, TX 76008 • 817.441.8056 • support@powerstreamsolutions.com

2025_767 UPS Bypass

Description

2025_767 Bypass A

1 – PowerStream PSB
Designed and Tested in accordance with:
UL 891/NATIONAL ELECTRIC CODE/NEMA PB-2
System Voltage - 480Y/277V 3Ph 4W 60Hz
Source Description – Bypass Board
System Ampacity - 1200A
Bussing - Aluminum Plated w/Tin and Copper
Plated w/Silver
Max Available Fault Current (RMS) - 65kA
Enclosure - Type 1
Accessibility: Front Only
Exterior Paint Color - ANSI 49
Ground Lug provided for each device
SIS Control Wire
Copper Ground Bus
SKRU, Scheme 39 MBB-SIB and 29 LBB-SIB
BAA Compliance

Dimensions
---
4 - 20" Wide Section(s)
4 - 36" Deep Enclosure(s)
Dimensions: 80.00" W X 36" Max D X 91.5" H

Incoming Requirements

UL Dead Front
UL Dead Front Label - Incoming One
Entry Point: Section 1, Through top
Connection Type: Cable

Breakers

Device Designation: LBB
1 - 1200AS/1200AT 480V 100% Rated 65 kA 3 Pole
UL, Fixed Mounted Electronic Trip
Circuit Breaker: Type RK
Ammeter Trip Unit, Long Time, Short Time, Instantaneous
Maintenance Mode Switch
Kirk Key

Device Designation: UIB1
1 - 1200AS/1200AT 480V 100% Rated 65 kA 3 Pole
UL, Fixed Mounted Electronic Trip
Circuit Breaker: Type RK
Ammeter Trip Unit, Long Time, Short Time, Instantaneous
Maintenance Mode Switch
48VDC Shunt Trip Without Communications

Device Designation: UOB1
1 - 1200AS/1200AT 480V 100% Rated 65 kA 3 Pole
UL, Fixed Mounted Electronic Trip
Circuit Breaker: Type RK
Ammeter Trip Unit, Long Time, Short Time, Instantaneous
Maintenance Mode Switch
48VDC Shunt Trip Without Communications

Device Designation: SIB

1 - 1200AS/1200AT 480V 100% Rated 65 kA 3 Pole
UL, Fixed Mounted Electronic Trip
Circuit Breaker: Type RK
Ammeter Trip Unit, Long Time, Short Time, Instantaneous
Maintenance Mode Switch
Kirk Key

Device Designation: MBB
1 - 1200AS/1200AT 480V 100% Rated 65 kA 3 Pole
UL, Fixed Mounted Electronic Trip
Circuit Breaker: Type RK
Ammeter Trip Unit, Long Time, Short Time, Instantaneous
Maintenance Mode Switch
Kirk Key

Feeder Breakers
---
1 - 600AS/800AT 480V 100% Rated 65 kA 3 Pole
UL, Fixed Mounted Electronic Trip
Circuit Breaker: Type RK
Standard Trip Unit, Long Time, Instantaneous

1 - 800AS/800AT 480V 100% Rated 65 kA 3 Pole
UL, Fixed Mounted Electronic Trip
Circuit Breaker: Type RK
Standard Trip Unit, Long Time, Instantaneous

2025_767 Bypass B

1 – PowerStream PSB
Designed and Tested in accordance with:
UL 891/NATIONAL ELECTRIC CODE/NEMA PB-2
System Voltage - 480Y/277V 3Ph 4W 60Hz
Source Description – Bypass Board
System Ampacity - 1200A

Bussing - Aluminum Plated w/Tin and Copper Plated w/Silver
Max Available Fault Current (RMS) - 65kA
Enclosure - Type 1
Accessibility: Front Only
Exterior Paint Color - ANSI 49
Ground Lug provided for each device
SIS Control Wire
Copper Ground Bus
SKRU, Scheme 39 MBB-SIB and 29 LBB-SIB
BAA Compliance

Dimensions
---
4 - 20" Wide Section(s)
4 - 36" Deep Enclosure(s)
Dimensions: 80.00" W X 36" Max D X 91.5" H

Incoming Requirements

UL Dead Front
UL Dead Front Label - Incoming One
Entry Point: Section 1, Through top
Connection Type: Cable

Breakers

Device Designation: LBB
1 - 1200AS/1200AT 480V 100% Rated 65 kA 3 Pole
UL, Fixed Mounted Electronic Trip
Circuit Breaker: Type RK
Ammeter Trip Unit, Long Time, Short Time, Instantaneous
Maintenance Mode Switch
Kirk Key

Device Designation: UIB1

1 - 1200AS/1200AT 480V 100% Rated 65 kA 3 Pole
UL, Fixed Mounted Electronic Trip
Circuit Breaker: Type RK
Ammeter Trip Unit, Long Time, Short Time, Instantaneous
Maintenance Mode Switch
48VDC Shunt Trip Without Communications

Device Designation: UOB1
1 - 1200AS/1200AT 480V 100% Rated 65 kA 3 Pole
UL, Fixed Mounted Electronic Trip
Circuit Breaker: Type RK
Ammeter Trip Unit, Long Time, Short Time, Instantaneous
Maintenance Mode Switch
48VDC Shunt Trip Without Communications

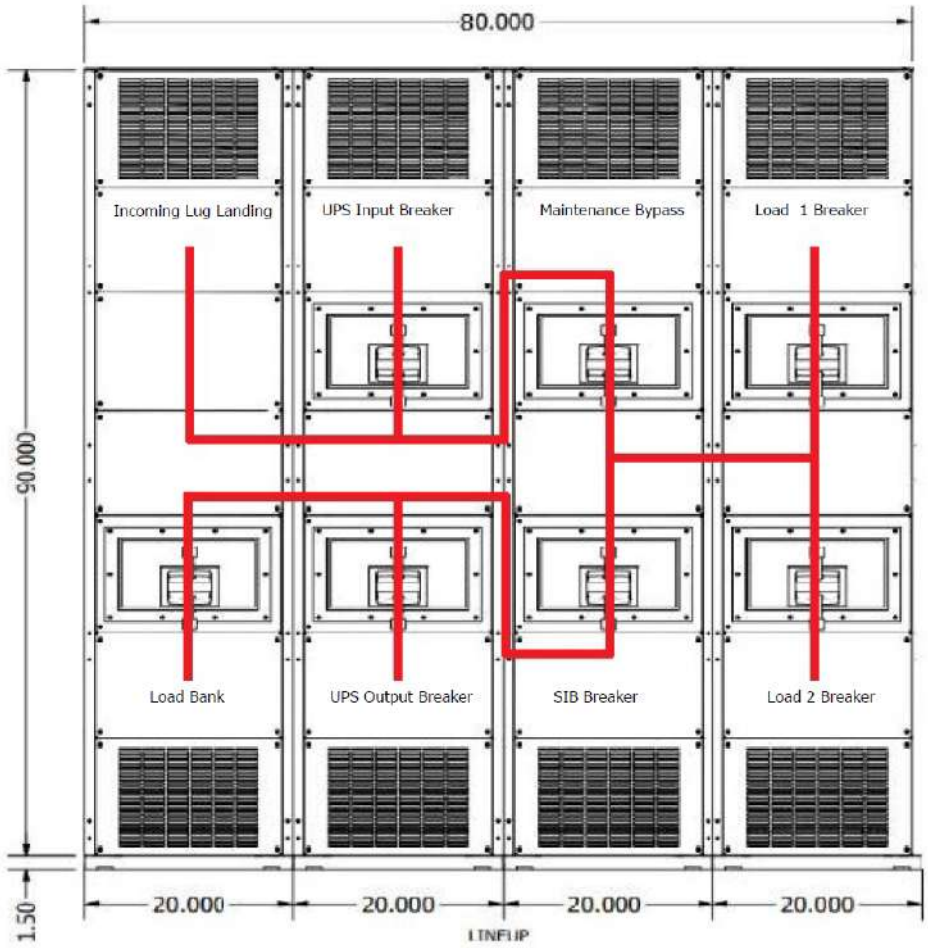
Device Designation: SIB
1 - 1200AS/1200AT 480V 100% Rated 65 kA 3 Pole
UL, Fixed Mounted Electronic Trip
Circuit Breaker: Type RK
Ammeter Trip Unit, Long Time, Short Time, Instantaneous
Maintenance Mode Switch
Kirk Key

Device Designation: MBB
1 - 1200AS/1200AT 480V 100% Rated 65 kA 3 Pole
UL, Fixed Mounted Electronic Trip
Circuit Breaker: Type RK
Ammeter Trip Unit, Long Time, Short Time, Instantaneous
Maintenance Mode Switch
Kirk Key

Feeder Breakers
---
1 - 800AS/800AT 480V 100% Rated 65 kA 3 Pole
UL, Fixed Mounted Electronic Trip

Circuit Breaker: Type RK
Standard Trip Unit, Long Time,
Instantaneous

1 - 800AS/400AT 480V 100% Rated 65 kA 3 Pole
UL, Fixed Mounted Electronic Trip
Circuit Breaker: Type RK
Standard Trip Unit, Long Time,
Instantaneous



SWITCHBOARD GENERAL NOTES
PRODUCT DESCRIPTION & RATINGS

Power System Data
480Y/277V 3Ph 4W 60Hz / 3 Phase Wye
Solidly Grounded
System Short Circuit Current Rating: 65kA RMS
Incoming Section 1 Cable Through the Top Center of Lineup

Bus System Data
1200A Tin/Aluminum & Silver/Copper Bus

Enclosure Data
Type NEMA 1 Free Standing
Exterior Paint Color: ANSI 49
Front Accessibility Only Required

Code Standards
U.L. Deadfront and suitable for use as Service Entrance
when not more than six (6) disconnecting means are provided.

Rating Nameplates
ST1 - Dead Front Section - Section Bus 1200A
ST2 - Dead Front Section - Section Bus 1200A
ST3 - Dead Front Section - Section Bus 1200A
ST4 - Dead Front Section - Section Bus 1200A

PRODUCT INFORMATION
Wiring
All wiring to be Machine Tool / SIS Wire type

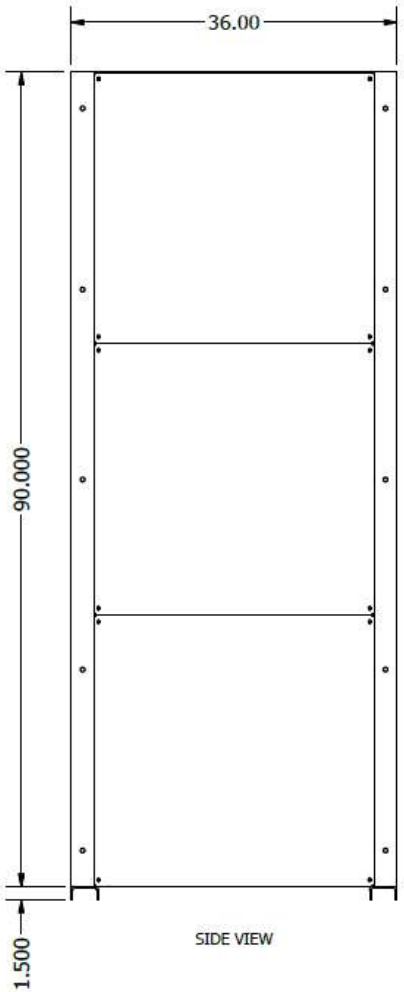
Instruction Bulletins
Refer As Built Drawings & Instructions

Product Accessories/Options
24V Trip Unit Display Power
Locally Mounted MMS Switch
BAA Compliant
SKRU Scheme 29 and 39

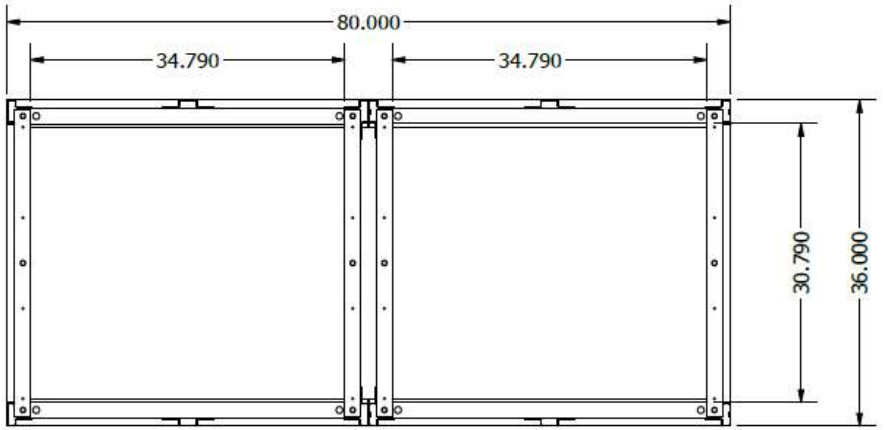
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TA	10/6/25	**2025_767**	**FRONT ELEVATION**	1 OF 4

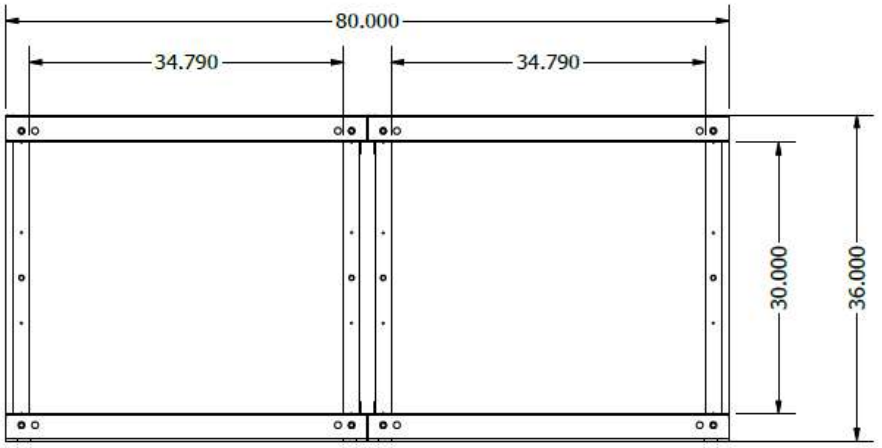
DRAWING STATUS: QUOTATION



SIDE VIEW



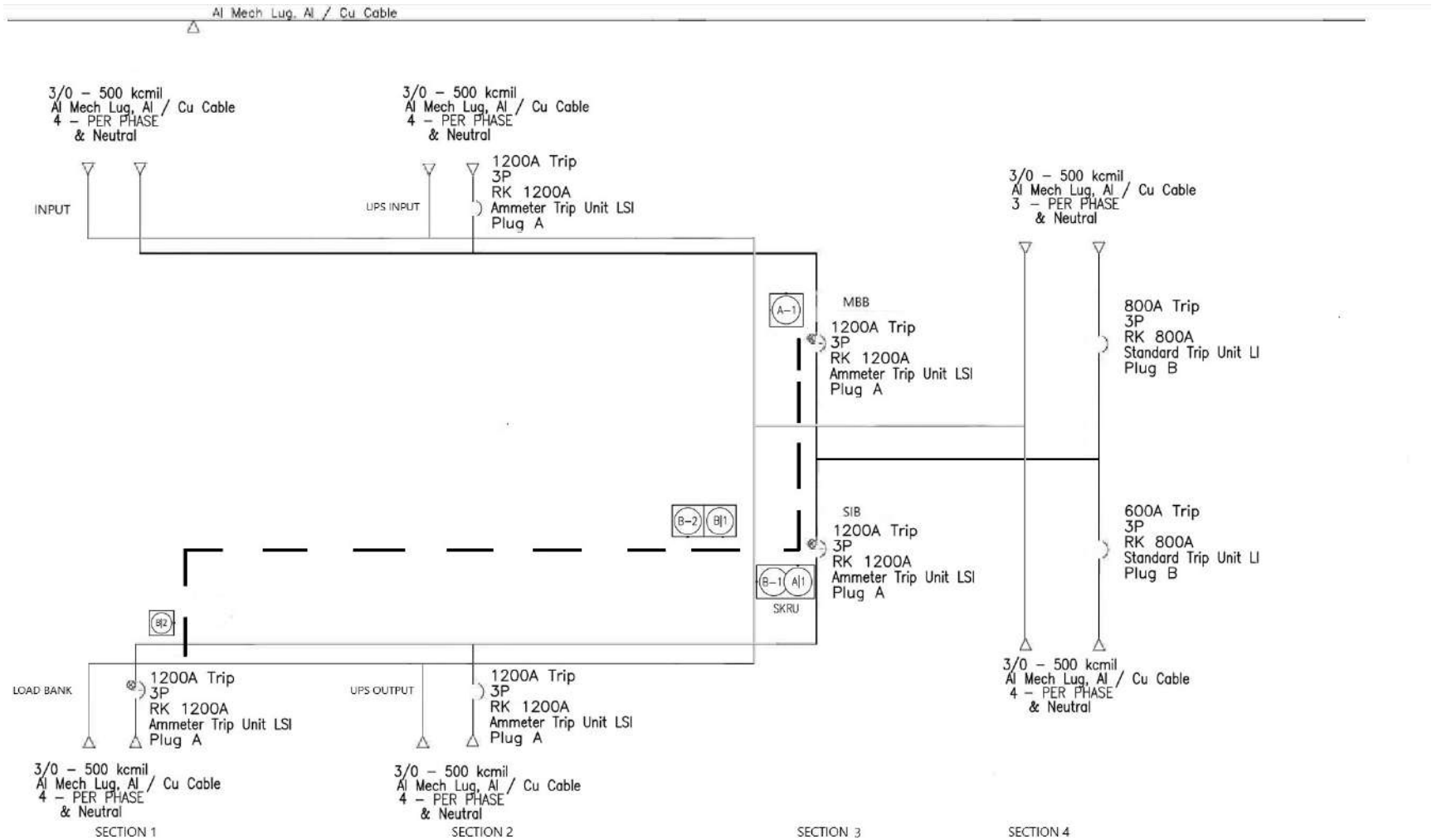
TOP VIEW



BOTTOM VIEW

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TA	10/6/25	**2025_767**	SIDE,REAR,TOP	QUOTATION
				SHEET 2 OF 4



REVISION					
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TA	10/6/25	**2025_767**	ONE-LINE	3 OF 4	

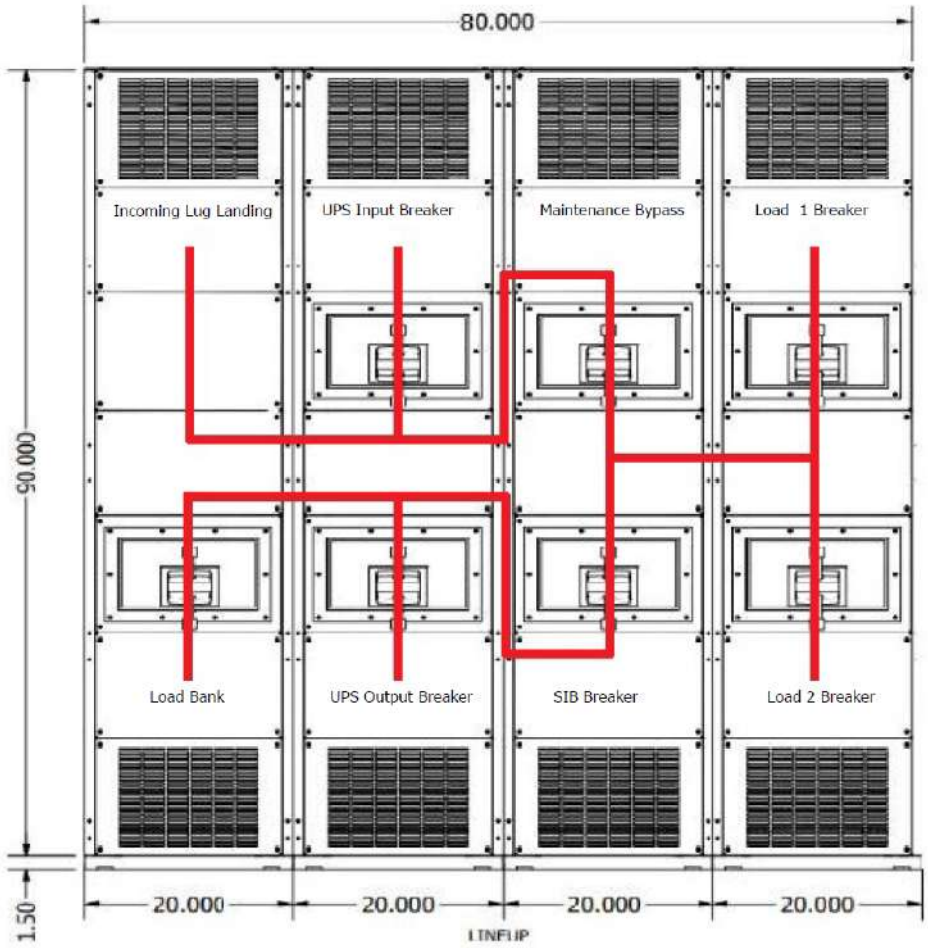
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SECT NO	CKT NO	IMD QTY	IMD QTY CONFIG	DEVICE/FRAME TABBING	TRIP AMP	FUSE TYPE	#P	DESIGNATION	N/P	QTY	PHASE WIRE RANGE	QTY	NEUT WIRE RANGE	ACCESSORIES / NOTES
1		FIX		INCOMING LUG					No	4	3/0 - 500 kcmil	4	3/0 - 500 kcmil	
1		FIX		RK 1200A 100%	1200	LSI	3P	Load Bank Breaker	No	4	3/0 - 500 kcmil	4	3/0 - 500 kcmil	Kirk Key Interlock, 3 Form C Breaker AUX Contacts, 24V Trip Unit Display, Maintenance Mode Switch
2		FIX		RK 1200A 100%	1200	LSI	3P	UPS Input	No	4	3/0 - 500 kcmil	4	3/0 - 500 kcmil	3 Form C Breaker AUX Contacts, 24V Trip Unit Display, Maintenance Mode Switch, Shunt Trip 48VDC
2		FIX		RK 1200A 100%	1200	LSI	3P	UPS Output	No	4	3/0 - 500 kcmil	4	3/0 - 500 kcmil	3 Form C Breaker AUX Contacts, 24V Trip Unit Display, Maintenance Mode Switch, Shunt Trip 48VDC
3		FIX		RK 1200A 100%	1200	LSI	3P	MBB	No	NA	NA	NA	NA	Kirk Key Interlock, 3 Form C Breaker AUX Contacts, 24V Trip Unit Display, Maintenance Mode Switch
3		FIX		RK 1200A 100%	1200	LSI	3P	SIB	No	NA	NA	NA	NA	Kirk Key Interlock, 3 Form C Breaker AUX Contacts, 24V Trip Unit Display, Maintenance Mode Switch
4		FIX		RK 800A 100%	800	LI	3P	DHEUR-1NE-1	No	3	3/0 - 500 kcmil	3	3/0 - 500 kcmil	3 Form C Breaker AUX Contacts, 24V Trip Unit Display
4		FIX		RK 800A 100%	600	LI	3P	DHEUG-1NW-1A	No	4	3/0 - 500 kcmil	4	3/0 - 500 kcmil	3 Form C Breaker AUX Contacts, 24V Trip Unit Display

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TA	10/6/25	**2025_767**	**ELECTRICAL COMP. SCHEDULE**	4 OF 4

REVISION: A



SWITCHBOARD GENERAL NOTES
PRODUCT DESCRIPTION & RATINGS

Power System Data
480Y/277V 3Ph 4W 60Hz / 3 Phase Wye
Solidly Grounded
System Short Circuit Current Rating: 65kA RMS
Incoming Section 1 Cable Through the Top Center of Lineup

Bus System Data
1200A Tin/Aluminum & Silver/Copper Bus

Enclosure Data
Type NEMA 1 Free Standing
Exterior Paint Color: ANSI 49
Front Accessibility Only Required

Code Standards
U.L. Deadfront and suitable for use as Service Entrance
when not more than six (6) disconnecting means are provided.

Rating Nameplates
ST1 - Dead Front Section - Section Bus 1200A
ST2 - Dead Front Section - Section Bus 1200A
ST3 - Dead Front Section - Section Bus 1200A
ST4 - Dead Front Section - Section Bus 1200A

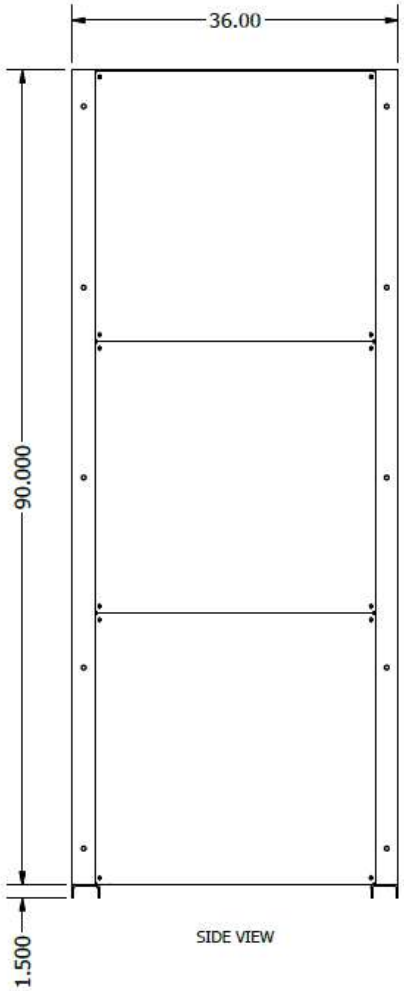
PRODUCT INFORMATION
Wiring
All wiring to be Machine Tool / SIS Wire type

Instruction Bulletins
Refer As Built Drawings & Instructions

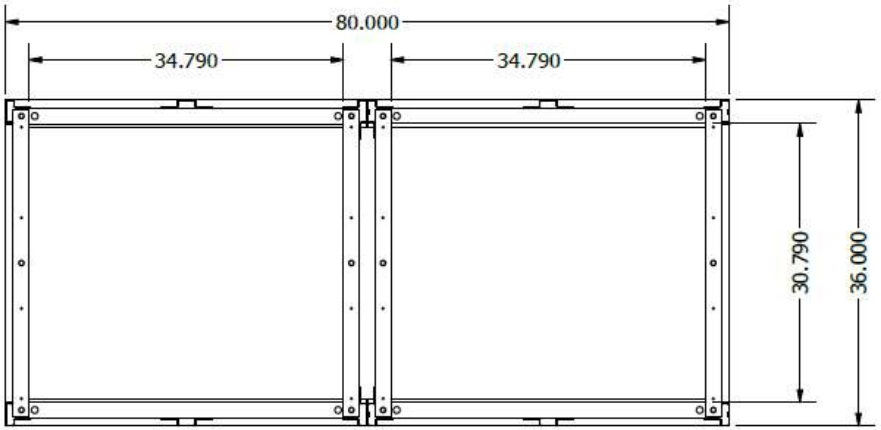
Product Accessories/Options
24V Trip Unit Display Power
Locally Mounted MMS Switch
BAA Compliant
SKRU Scheme 29 and 39

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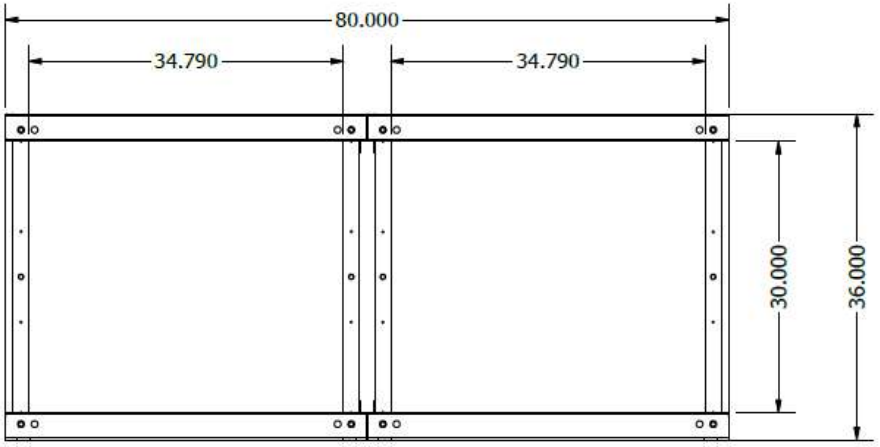
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SIDE VIEW



TOP VIEW



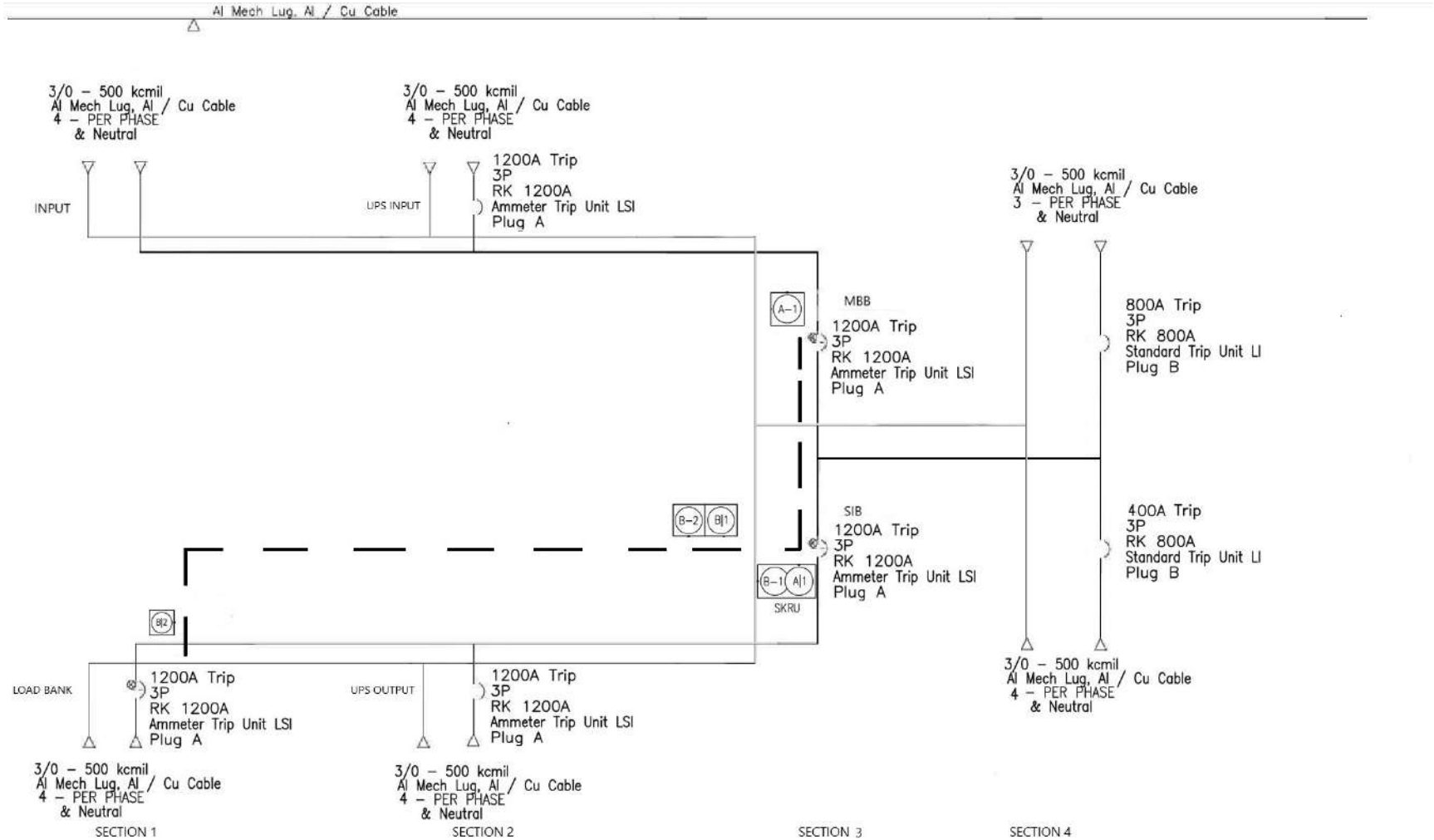
BOTTOM VIEW

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TA	10/6/25	**2025_767**	SIDE,REAR,TOP	2 OF 4



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TA	10/6/25	**2025_767**	ONE-LINE	3 OF 4

SECT NO	CKT NO	IMD QTY	IMD QTY CONFIG	DEVICE/FRAME TABBING	TRIP AMP	FUSE TYPE	#P	DESIGNATION	N/P	QTY	PHASE WIRE RANGE	QTY	NEUT WIRE RANGE	ACCESSORIES / NOTES
1		FIX		INCOMING LUG					No	4	3/0 - 500 kcmil	4	3/0 - 500 kcmil	
1		FIX		RK 1200A 100%	1200	LSI	3P	Load Bank Breaker	No	4	3/0 - 500 kcmil	4	3/0 - 500 kcmil	Kirk Key Interlock, 3 Form C Breaker AUX Contacts, 24V Trip Unit Display, Maintenance Mode Switch
2		FIX		RK 1200A 100%	1200	LSI	3P	UPS Input	No	4	3/0 - 500 kcmil	4	3/0 - 500 kcmil	3 Form C Breaker AUX Contacts, 24V Trip Unit Display, Maintenance Mode Switch, Shunt Trip 48VDC
2		FIX		RK 1200A 100%	1200	LSI	3P	UPS Output	No	4	3/0 - 500 kcmil	4	3/0 - 500 kcmil	3 Form C Breaker AUX Contacts, 24V Trip Unit Display, Maintenance Mode Switch, Shunt Trip 48VDC
3		FIX		RK 1200A 100%	1200	LSI	3P	MBB	No	NA	NA	NA	NA	Kirk Key Interlock, 3 Form C Breaker AUX Contacts, 24V Trip Unit Display, Maintenance Mode Switch
3		FIX		RK 1200A 100%	1200	LSI	3P	SIB	No	NA	NA	NA	NA	Kirk Key Interlock, 3 Form C Breaker AUX Contacts, 24V Trip Unit Display, Maintenance Mode Switch
4		FIX		RK 800A 100%	800	LI	3P	DHEUR-1NE-2	No	3	3/0 - 500 kcmil	3	3/0 - 500 kcmil	3 Form C Breaker AUX Contacts, 24V Trip Unit Display
4		FIX		RK 800A 100%	400	LI	3P	DHEUG-1NW-1B	No	4	3/0 - 500 kcmil	4	3/0 - 500 kcmil	3 Form C Breaker AUX Contacts, 24V Trip Unit Display

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TA	10/6/25	**2025_767**	**ELECTRICAL COMP. SCHEDULE**	QUOTATION
				SHEET
				4 OF 4

M-, P-, and R-Frame Molded Case Circuit Breakers

		PowerPacT 800 A M-Frame		PowerPacT 1200 A P-Frame				PowerPacT 3000 A R-Frame			
											
Circuit Breaker Type		MG	MJ	PG	PJ	PK	PL	RG	RJ	RK	RL
Number of Poles		2, 3	2, 3	2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4
Current Range (A)		300–800	300–800	100–1200	100–1200	100–1200	100–1200	240–3000	240–3000	240–3000	240–3000
Interrupting Ratings											
UL/CSA/NOM Rating (kA RMS) (50/60 Hz)	240 Vac	65	100	65	100	65	125	65	100	65	125
	480Y/277 Vac	35	65	35	65	50	100	35	65	65	100
	480 Vac	35	65	35	65	50	100	35	65	65	100
	600Y/347 Vac	18	25	18	25	50	—	18	25	65	50
	600 Vac	18	25	18	25	50	—	18	25	65	50
DC Ratings	250 Vdc	—	—	—	—	—	—	—	—	—	—
	500 Vdc *[51]*	—	—	—	—	—	—	—	—	—	—
IEC (kA RMS) (50/60 Hz) Icu/Ics *[52]*	240 Vac	50/25	65/35	50/25	65/35	50/25	125/65	50/25	65/35	85/65	125/65
	415 Vac	35/20	50/25	35/20	50/25	50/25	85/45	35/20	50/25	70/55	85/45
Special Ratings											
CCC		X	X	X	X	X	X	X	X	X	X
HACR (2P, 3P)		X	X	X	X	X	X	X	X	X	X
FCC		X	X	X	X	X	X	X	X	X	X
CE		X	X	X	X	X	X	X	X	X	X
UKCA		X	X	X	X	X	X	X	X	X	X
Connections/Terminations											
Unit Mount		X	X	X	X	X	X	X	X	X	X
I-Line™		X	X	X	X	X	X	X *[53]*	X *[53]*	X *[53]*	X *[53]*
Rear Connection		—	—	—	—	—	—	—	—	—	—
Drawout		—	—	X *[54]*	X *[54]*	X *[54]*	X *[54]*	—	—	—	—
Optional Lugs		X	X	X	X	X	X	X	X	X	X
Accessories and Modifications											
Shunt Trip		X	X	X	X	X	X	X	X	X	X
Undervoltage Trip		X	X	X	X	X	X	X	X	X	X
Auxiliary Switches		X	X	X	X	X	X	X	X	X	X
Alarm Switch		X	X	X	X	X	X	X	X	X	X
Motor Operator		—	—	X *[54]*	X *[54]*	X *[54]*	X *[54]*	—	—	—	—
Handle Operators		—	—	X *[54]*	X *[54]*	X *[54]*	X *[54]*	—	—	—	—
Mechanical Interlocks (3P)		—	—	X	X	X	X	—	—	—	—
Handle Padlock Attachment		X	X	X	X	X	X	X	X	X	X
Cylinder Lock (3P)		—	—	—	—	—	—	—	—	—	—
Optional GF Protection		—	—	X	X	X	X	X	X	X	X
Trip System Type											
Thermal-magnetic		—	—	—	—	—	—	—	—	—	—
Instantaneous-only (MCP)		—	—	—	X	X	—	—	—	—	—
Molded Case Switch (Automatic)		X	X	X	X	X	X	X	X	X	X
Electronic		X	X	X	X	X	X	X	X	X	X
Product Dimensions											
Dimensions (3P Unit Mount)	Height—in. (mm)	12.80 (325)		16.20 (413)				15 (381)			
	Width—in. (mm)	8.30 (210)		8.30 (210)				16.50 (420)			
	Depth—in. (mm)	8.10 (205)		8.10 (205)				14.40 (366)			
Enclosures (page 7-85–page 7-87)											
General Purpose (NEMA 1)		X	X	X	X	X	X	—	—	—	—
Raintight (NEMA 3R)		X	X	X	X	X	X	—	—	—	—
Dust-tight (NEMA 12)		X	X	X	X	X	X	—	—	—	—
Watertight (NEMA 4, 4X, 5)		X	X	—	—	—	—	—	—	—	—
Explosion Proof (NEMA 7, 9)		—	—	—	—	—	—	—	—	—	—
Pages (Unit Mount) / (I-Line)		page 7-42 / Section 9		page 7-43, page 7-48 / Section 9				page 7-44, page 7-48 / Section 9			

NOTE: All circuit breakers on this chart are certified to UL and CSA standards unless otherwise noted.

[51] Ungrounded UPS systems only. See page 7-47.
[52] Dual UL and IEC ratings and CE markings on circuit breakers. For additional IEC ratings, see the Supplemental Digest, Section 10.
[53] 1000 A and 1200 A only.
[54] 65/50 kA Icu/Ics for 450–600 A ratings.

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PowerPacT P- and R-Frame MicroLogic Trip Units

PowerPacT P- and R-Frame MicroLogic Trip Units



Standard Trip Unit | Ammeter Trip Unit | Power Trip Unit | Harmonic Trip Unit | Adjustable Rating Plug

MicroLogic (Standard) 3.0 and 5.0 Trip Units For 800A Frame Breakers (3.0 - LI)

PowerPacT™ P- and R-frame molded case circuit breakers may be specified with any of the following MicroLogic Electronic Trip Units.

- True RMS sensing
- LI, LSI trip configurations
- Field-interchangeable long-time rating plugs
- LED long-time pickup indication
- Test kits available
- Thermal imaging

MicroLogic (Ammeter) 3.0A, 5.0A and 6.0A Trip Units For 1200A Frame Breakers (5.0A - LSI)

Includes all features listed for MicroLogic standard trip unit, as well as:

- LSIG trip configurations
- Digital ammeter—phase and neutral (4-pole only)
- Phase loading bar graph
- LED trip indication
- Zone-selective interlocking (ZSI) (short-time & ground-fault)
- Optional Modbus™ communications—PowerLogic™ compatible

MicroLogic (Power) 5.0P and 6.0P Trip Units

Power measurement and advanced protection features includes all features listed for MicroLogic ammeter trip unit, as well as:

- LSI trip configuration with programmable ground fault alarm
- LSIG (Ground-fault trip) with programmable ground fault alarm
- Incremental “fine tuning” of L, S, I, and G pickup and delay settings
- LCD dot matrix display and LED trip indication
- Advanced user interface
- Advanced protection IDMTL—selectable long-time delay bands
- Neutral protection
- Power measurement
- Contact wear indication
- Modbus communications—PowerLogic compatible
- Local and remote settings

MicroLogic (Harmonic) 5.0H and 6.0H Trip Units

Power quality measurement and advanced protection features. Includes all features listed for the MicroLogic power trip unit, as well as:

- Enhanced power measurements functions
- Power quality measurements

Adjustable Rating Plugs for PowerPacT™ P-Frame and R-Frame and MasterPacT™ NT and NW Circuit Breakers—Selection

To provide maximum design flexibility, system protection, and field upgradeability, each MicroLogic™ trip unit is equipped with an interchangeable long-time rating plug. Each trip unit requires an adjustable rating plug to determine the long-time pickup range of the circuit breaker. These plugs are factory installed on new trip units, or can be ordered separately for field-installable upgrades.

Adjustable rating plugs are offered in eight different ranges of long-time pickup adjustments. The following chart show the ranges of adjustments. Each adjustment times the sensor rating (Ir x In) of the circuit breaker sets the long-time pickup value of the circuit breaker.

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800A Frame Breakers

1200A Frame Breakers

Table 7.122: PowerPacT P- and R-Frame MicroLogic Trip Unit and Options

Model	Protection	Additional Features	Field-Installable Cat. No. *[2]*
2.0 (IEC only)	LSO	None	S132R
3.0 (UL/ANSI only)	LI		S131A
5.0	LSI		S133A
2.0A (IEC only)	LSO	Ammeter	S142R *[3]*
3.0A (UL/ANSI only)	LI		S141A *[3]*
5.0A	LSI		S143A *[3]*
6.0A	LSIG		S144A *[3]*
5.0P	LSI	Metering, Adv. Protection	S163A *[3][4]*
6.0P	LSIG		S164A *[3][4]*
5.0H	LSI	Metering, Adv. Protection & Harmonic Analysis	S173A *[3][4]*
6.0H	LSIG		S174A *[3][4]*

Table 7.123: PowerPacT P- and R-Frame MicroLogic Trip Units

x– Standard Feature o – Available Option

Features	Standard		Ammeter			Power		Harmonic	
	3.0	5.0	3.0A	5.0A	6.0A	5.0P	6.0P	5.0H	6.0H
LI	X	—	X	—	—	—	—	—	—
LSI (Instantaneous can be turned off)	—	X	—	X	X	X	X	X	X
LSIG / Ground-Fault Trip *[5]*	—	—	—	—	X	—	X	—	X
Ground-Fault Alarm (No Trip) *[5][6]*	—	—	—	—	—	X	—	X	—
Ground-Fault Alarm and Trip *[5][6]*	—	—	—	—	—	—	X	—	X
Adjustable Rating Plugs	X	X	X	X	X	X	X	X	X
True RMS Sensing	X	X	X	X	X	X	X	X	X
UL Listed	X	X	X	X	X	X	X	X	X
Thermal Imaging	X	X	X	X	X	X	X	X	X
Phase Loading Bar Graph	—	—	X	X	X	X	X	X	X
LED for Long-time Pickup	X	X	X	X	X	X	X	X	X
LED for Trip Indication	—	—	X	X	X	X	X	X	X
Digital Ammeter	—	—	X	X	X	X	X	X	X
Zone-selective Interlocking	—	—	X	X	X	X	X	X	X
Communications	—	—	X	X	X	X	X	X	X
LCD Dot Matrix Display	—	—	—	—	—	X	X	X	X
Advanced User Interface	—	—	—	—	—	X	X	X	X
Protective Relay Functions	—	—	—	—	—	X	X	X	X
Neutral Protection	—	—	—	—	—	X	X	X	X
Contact Wear Indication	—	—	—	—	—	X	X	X	X
Incremental Fine Tuning of Settings	—	—	—	—	—	X	X	X	X
Selectable Long-time Delay Bands	—	—	—	—	—	X	X	X	X
Power Measurement	—	—	—	—	—	X	X	X	X
Power Quality Measurements	—	—	—	—	—	—	—	X	X
Waveform Capture	—	—	—	—	—	—	—	X	X

A type Rating Plug for 1200AT Breakers
B type Rating Plug for 800AT and 400AT Breakers

Table 7.124: PowerPacT P- and R-Frame Long-Time Pickup Settings

Rating Plug	Long-time Pickup Settings								
A	.40	.45	.50	.60	.63	.70	.80	.90	1.0
B	.40	.44	.50	.56	.63	.75	.88	.95	1.0
C	.42	.50	.53	.58	.67	.75	.83	.95	1.0
D	.40	.48	.64	.70	.80	.90	.93	.95	1.0
E	.60	.70	.75	.80	.85	.90	.93	.95	1.0
F	.84	.86	.88	.90	.92	.94	.96	.98	1.0
G	.66	.68	.70	.72	.74	.76	.78	.80	.82
H	.48	.50	.52	.54	.56	.58	.60	.62	.64

Table 7.125: Special Options

Description	Factory-Installed Suffix	Field-Installable Cat. No.
Ship circuit breaker in closed position	YK	N/A
Alternate Maintenance Setting (AMS) kit (use with 5.0/6.0 A, P or H and 5.3/6.3 A or E MicroLogic trip units)	—	84957
Energy Reduction Maintenance Setting (ERMS) kit (use with 5.0/6.0 P or H MicroLogic trip units)	—	84956
Maintenance Mode Setting Switch kit	120 Vac	LV429659
	24 Vdc	LV429658

[2] The standard rating plug supplied with a trip unit will be the “A” rating plug. To specify an alternative adjustable rating plug, please add the letter designation to the end of the catalog number. Please refer to page 7-68 for a complete listing of adjustable settings available with each plug. (Example: S143B would specify a “B” rating plug instead of the standard "A" plug.) Use suffix “N” if no rating plug is required, deduct.

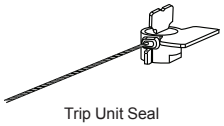
[3] When replacing a standard trip unit with Type A (Ammeter), P (Power metering) or H (Harmonic analysis) trip unit, order the 12-pin connector kit S33101 for the MasterPacT NW and NT and the PowerPacT P-frame drawout circuit breakers or kit S33100 for PowerPacT P-frame and R-frame unit-mount and I-Line circuit breakers.

[4] Requires Circuit Breaker Communications Module.

[5] Requires neutral current transformer in 3Ø4W systems.

[6] Alarm history is available through the trip unit display and communications. Local indication of an alarm requires an M2C Programmable Contact Module.

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Trip Unit Seal



Sensor Plug

Trip Unit Accessories

Adjustable rating plug "A" is installed as standard on all MicroLogic trip unit orders. However, an alternative selection may be specified from the "Assembled" table below, and factory installed with your trip unit order at no additional charge. To order, please attach the appropriate catalog suffix to the end of the trip unit Cat. No. (after specifying trip unit options). Adjustable rating plugs may also be purchased as field-installable components from the table below.

For Enerlin'X accessory information, see Enerlin'X Digital Solutions, page 7-79

Table 7.126: Rating Plugs

Rating Plug *[7]*	Factory Installed Cat. Suffix	Field-Installable Cat. No.
A	A (standard)	S48818
B	B	S48819
C	C	S48820
D	D	S48836
E	E	S48837
F	F	S48838
G	G	S48839
H	H	S48840

Table 7.127: Neutral Current Transformers

Use With	Cat. No.	Sensor
H- Frame	S429521	60–100
	S430562	150
J- Frame	S430563	250
L- Frame	S432575	400–600
P- Frame	S33575*[8]*	250
	S33576*[8]*	400–1600
R- Frame	S48916*[8]*	250
	S34036*[8]*	400–1600
	S48896*[8]*	2000
	S48182*[8]*	3000
All	NCTWIRING	All

Table 7.128: Zone-Selective Interlocking

Description	Factory-Installed Cat. Suffix	Field-Installable Cat. No.
ZSI Interface Module	—	S434212
24 Vdc Terminal Block	EN	S434210
ZSI Wire Harness, H/J Frame	YH3	S434300
ZSI Wire Harness, L- Frame	YH3	S434301
ENCT & ZSI Wire Harness	YH4	—

Table 7.129: Trip Unit Accessories

Device		Frame	Cat. No.
Pocket Tester		H/J/L	S434206
MicroLogic 5/6 Cover, Transparent		H/J	S429478
MicroLogic 2/3 Cover, Transparent			S429481
MicroLogic 5/6 Cover, Transparent		L	S432459
MicroLogic 2/3 Cover, Transparent			S432461
LCD Display for MicroLogic 5		H/J/L	S429483
LCD Display for MicroLogic 6			S429484
Service Interface Kit*[9]*		H/J/L/P/R	LV485500
Trip Unit Battery for Trip Indicator Lights		P/R	S33593
Power supply with:	24–30 Vdc input		LV454440
	48/60 Vdc input		LV454441
	125 Vdc input		LV454442
	110–130 Vac input		LV454443
	200–240 Vac input		LV454444
MicroLogic A Trip Unit Cover, clear		P/R	S33592
MicroLogic P/H Trip Unit Cover, opaque gray			S47067
Trip Unit Seal (6 pieces) for compliance with NEC 240.6(c)		H/J/L/P/R	MICROTUSEAL
12-pin Trip Unit Connector for NT/NW MasterPacT Circuit Breakers		P/R	S33101
12-pin Trip Unit Connector for P- and R- Frame Circuit Breakers			S33100
Battery Back-up (12 Hours)			685831

Table 7.130: Sensor Plugs for P- and R- Frame Circuit Breakers *[10]*

Description	Sensor Plug Range	Sensor Plug Cat. No.	Circuit Breaker Frames Accepting Sensor Plug								
P- Frame Circuit Breaker			250 A	400 A	600 A	630 A *[11]*	800 A	1000 A	1200 A	1250 A *[11]*	1600 A
UL	250 A	S47052	X	—	—	—	—	—	—	—	—
	400 A	S47053	—	X	X	—	X	—	—	—	—
	600 A	S48823	—	—	X	—	X	X	X	—	—
	800 A	S33092	—	—	—	—	X	X	X	—	—
	1000 A	S33093	—	—	—	—	—	X	X	—	—
	1200 A	S48824	—	—	—	—	—	—	X	—	—
IEC	630 A	S33091	—	—	—	X	X	X	—	X	X
	800 A	S33092	—	—	—	—	X	X	—	X	X
	1000 A	S33093	—	—	—	—	—	X	—	X	X
	1250 A	S33094	—	—	—	—	—	—	—	X	X
	1600 A	S33095	—	—	—	—	—	—	—	—	X
R- Frame Circuit Breaker			600 A	800 A	1000 A	1200 A	1600 A	2000 A	2500 A	3000 A	3200 A
UL	600 A	S48823	X	X	X	X	—	—	—	—	—
	800 A	S33092	—	X	X	X	X	—	—	—	—
	1000 A	S33093	—	—	X	X	X	X	—	—	—
	1200 A	S48824	—	—	—	X	X	X	X	—	—
	1600 A	S33095	—	—	—	—	X	X	X	X	—
	2000 A	S33982	—	—	—	—	—	X	X	X	—
	2500 A	S33983	—	—	—	—	—	—	X	X	—
	3000 A	S48825	—	—	—	—	—	—	—	X	—
IEC	1600 A	S33095	—	—	—	—	X	X	X	X	X
	2000 A	S33982	—	—	—	—	—	X	X	X	X
	2500 A	S33983	—	—	—	—	—	—	X	X	X
	3200 A	S33984	—	—	—	—	—	—	—	—	X

Pink = 800AF Breakers
Red = 1200A Breakers

[7] Long-time pickup amperes (Ir) = Sensor Rating (In) X Setting of rating plug. "Fine adjustment tuning" is included on MicroLogic Power and Harmonic trip units, allowing for incremental settings of 1 A between the plug setting and. 40 X Sensor Rating.
[8] Includes NCTWIRING kit.
[9] Service Interface Test Kit can be ordered through SE Services only. Service Interface Test kit replaces obsoleted UTA, Hand-Held and Full Function Test Kit.
[10] For use only with circuit breakers with date codes later than 07011. For long-time pickup range, See rating plug information at page 7-65.
[11] IEC Only.

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Product data sheet

Specifications



PowerPact M, P, R-Frane Maintenance Mode Switch Kit MMS 24V

LV429658

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

Range of Product	PowerPact P
Device Application	Switch
Accessory / separate part category	Maintenance accessories
Quantity per Set	1

Complementary

Mounting Mode	Bolt-on
Mounting Location	Front
Display Type	2 LEDs
Display colour	Blue

Environment

Product Certifications	UL 489 IEC CSA NEMA

Ordering and shipping details

Category	US10DE201250
Discount Schedule	0DE2
GTIN	785901659792
Returnability	No
Country of origin	MX

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**Yes**

Use Again

Repack and remanufacture

Circularity Profile	**No need of specific recycling operations**
Take-back	**No**

Image of product / Alternate images

Alternative

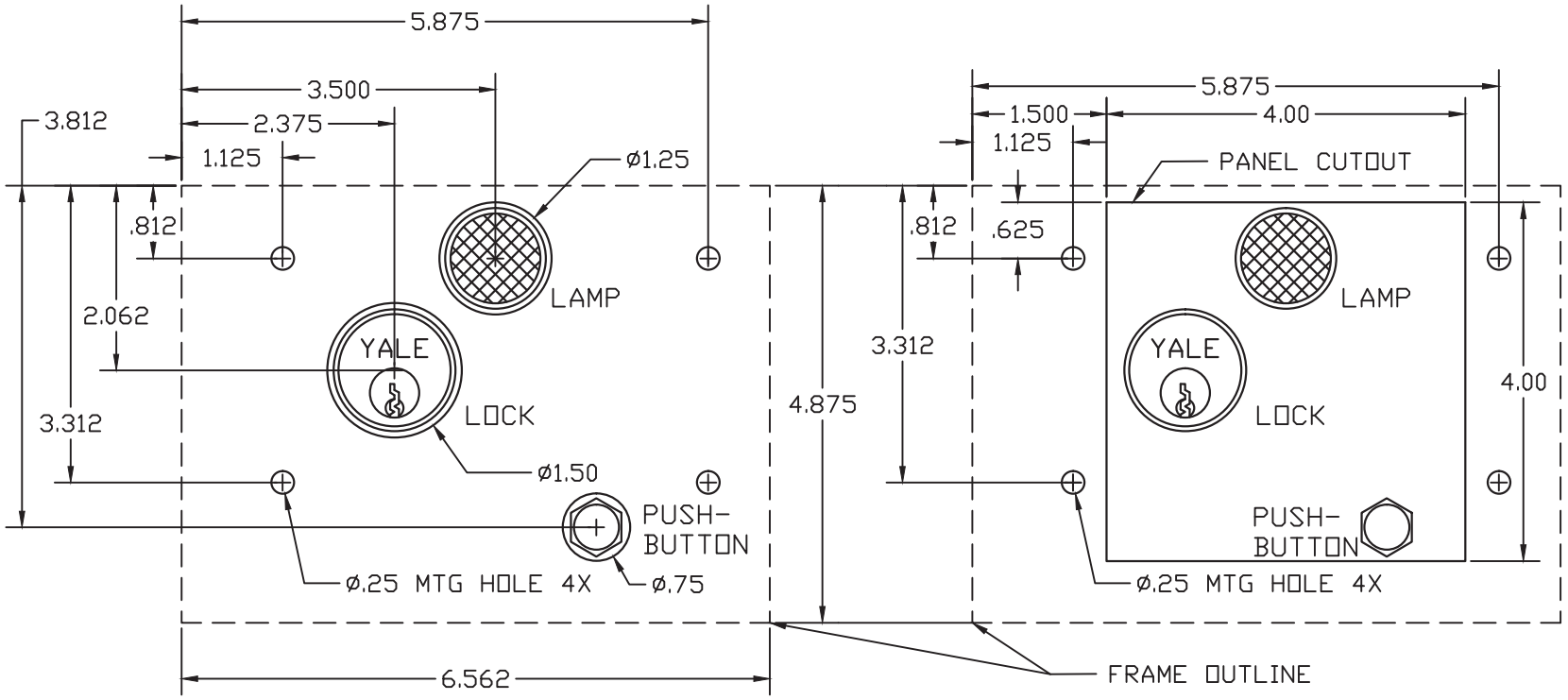




WHEN USING THIS INTERLOCK OR ANY INTERLOCK SYSTEM:
OPERATORS MUST BE PROPERLY TRAINED AND FOLLOW THE DOCUMENTED PROCEDURE(S) PER FACILITY, LOCAL, CITY, STATE, FEDERAL AND OSHA CODES AND LAWS.
* SYSTEM SHOWN IN OPERATING CONDITION
* USE ONLY DRY GRAPHITE TO LUBRICATE LOCK CYLINDERS

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

para 2.7.2 (key/electrical interlock)



DRILLED HOLES - PANEL MOUNT UNIT CUTOUT

SQUARE HOLE - PANEL MOUNT UNIT CUTOUT

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SUPERIOR INTERLOCK CORP
73-39 Central Avenue
Glendale, NY 11385-8202
(718) 821-8949
fax (718) 417-6162
www.superiorinterlock.com

drawn by: RICHARD A. HUBER

FILE#: FILE

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CUSTOMER: FILE

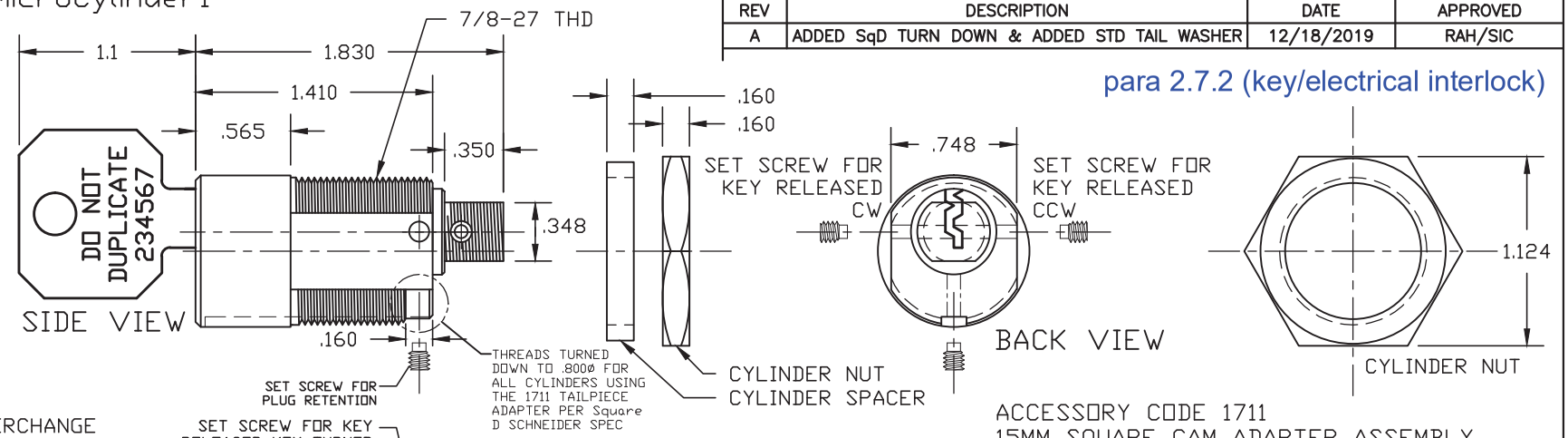
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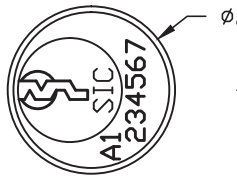
CAT# MicroCylinderI

REVISIONS			
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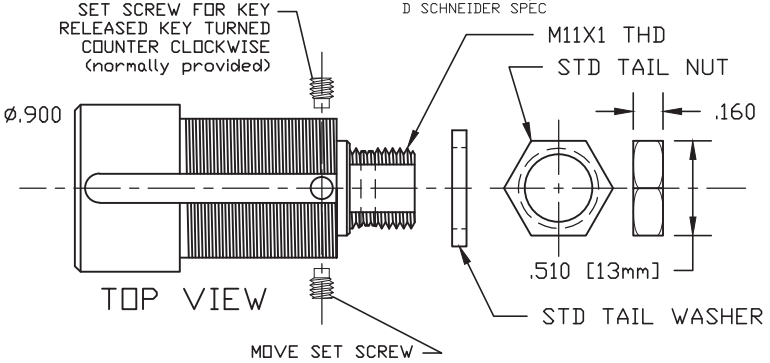
para 2.7.2 (key/electrical interlock)



KEY INTERCHANGE STAMPING LIMITED TO 2 CHARACTERS ON EACH SIDE

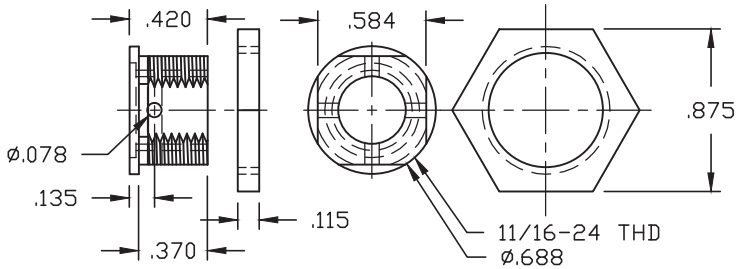


FRONT VIEW



TOP VIEW

ACCESSORY CODE 1711
15MM SQUARE CAM ADAPTER ASSEMBLY
FOR SquareD SCHNIEDER MOTORPACT GEAR



NOTES:
DUE TO COMPACT STYLE, THIS CYLINDER MAY NOT BE COMPATIBLE WITH OUR ENTIRE KEYING SYSTEM, OUR ENGINEERING STAFF WILL WORK TO RESOLVE ISSUES.

MAT'L SPEC: BRASS CYLINDER & KEY
WE REQUIRE SUPPLIERS CERTIFY THE SUPPLY CHAIN IS RoHS AND REACH COMPLIANT, & REMAINS FREE OF "CONFLICT MINERALS". CERTIFICATION STATEMENTS AVAILABLE

WE SUPPLY CYLINDER ONLY! OEM INSTALLATION KITS BY OTHERS. FOLLOW EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS

WHEN USING THIS INTERLOCK OR ANY INTERLOCK SYSTEM: OPERATORS MUST BE PROPERLY TRAINED AND FOLLOW THE DOCUMENTED PROCEDURE(S) PER FACILITY, LOCAL, CITY, STATE, FEDERAL AND OSHA CODES AND LAWS.
* USE ONLY DRY GRAPHITE TO LUBRICATE LOCK CYLINDERS

PLEASE CALL/CONTACT OUR FACTORY OR SEE OUR WEBSITE FOR MORE INFORMATION

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73-39 Central Avenue
Glendale, NY 11385-8202
(718) 821-8949
fax (718) 417-6162
www.superiorinterlock.com

drawn by: RICHARD A. HUBER

FILE#: FILE

TITLE: SUPERIOR MICROCYLINDER1

CUSTOMER: file

SIZE	DWG NO.	REV
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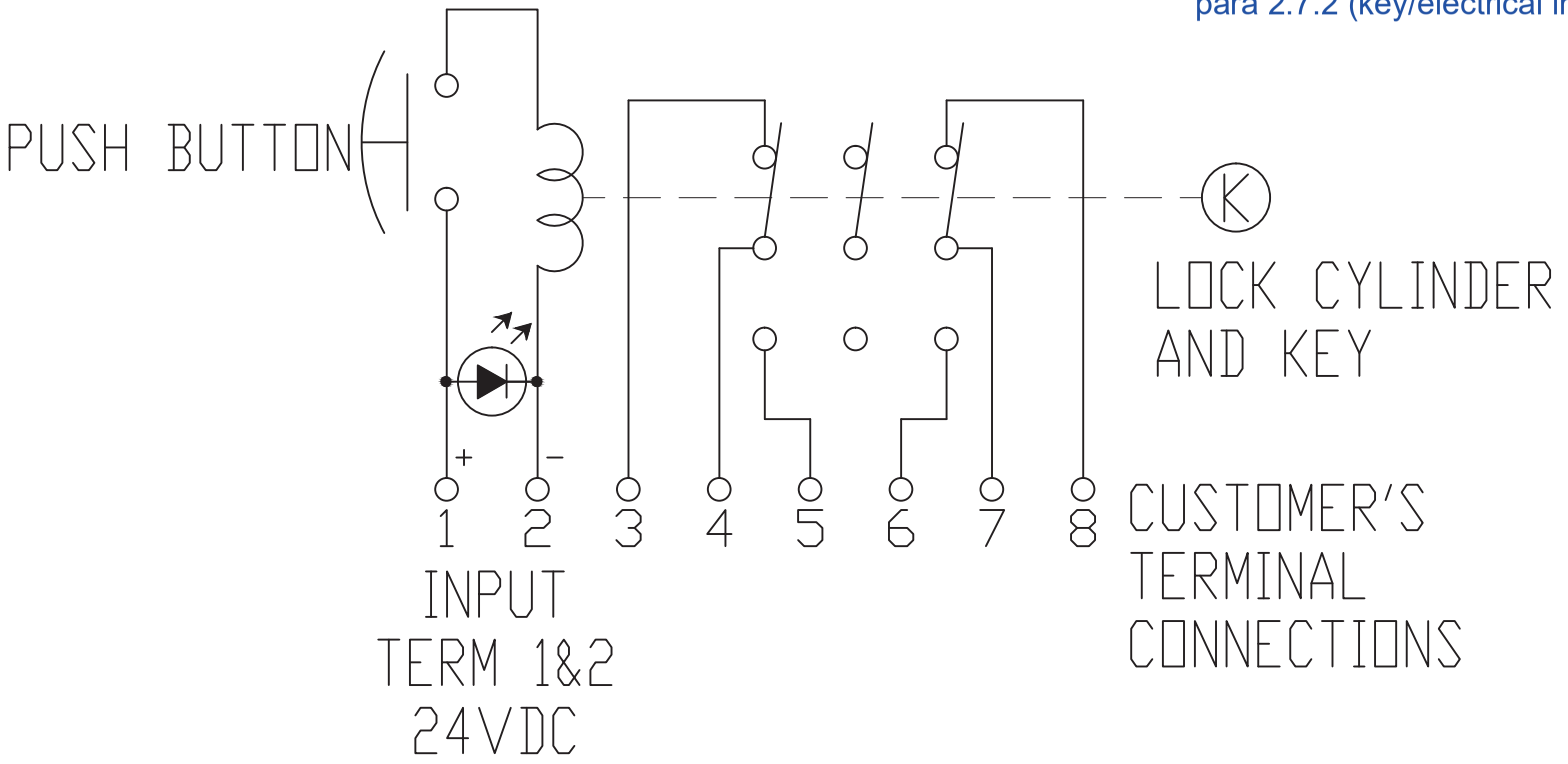
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WHEN USING THIS OR ANY INTERLOCK SYSTEM:
OPERATORS MUST BE PROPERLY TRAINED AND FOLLOW THE DOCUMENTED PROCEDURE(S) PER FACILITY, LOCAL, CITY, STATE, FEDERAL AND OSHA CODES AND LAWS.
* SYSTEM SHOWN IN OPERATING CONDITION
* USE ONLY DRY GRAPHITE ONLY TO LUBRICATE LOCK CYLINDERS

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

shown key released position

para 2.7.2 (key/electrical interlock)



SUPERIOR INTERLOCK CORP
73-39 Central Avenue
Glendale, NY 11385-8202
(718) 821-8949
fax (718) 417-6162
www.superiorinterlock.com

TITLE: B-986 INTERLOCK WIRING - 24VDC PBL

CUSTOMER: FILE

drawn by: RICHARD A. HUBER

FILE#: FILE

SIZE	DWG NO.	REV
A	S1059001YPBLsol2Wire.dwg	0

SCALE		SHEET
N/A	03/18/2013	1 of 1

NOTES:

1 KEY SOLENOID KEY INTERLOCK UNIT, (SKRU)
TYPE B-986-1

TWO KEY INTERLOCK AVAILABLE.
FOR ENCLOSED UNIT SEE CAT# S1059003YPBL
FOR ENCLOSED OUTDOOR UNIT SEE CAT#
S1059003YODPBL
RED LED INDICATING LAMP STANDARD
OTHER COLORS AVAILABLE
STANDARD WIRING SHOWN
OTHER WIRING ARRANGEMENTS AVAILABLE
FOR PANEL CUTOUT INFO SEE DRAWING B986C01K.dwg

UNIT IS PROVIDED WITH 4X 10-32 ONE-WAY PAN HEAD
MOUNTING SCREWS FOR PANEL MOUNTING AS STANDARD

CUSTOMER SPECIFIED COIL VOLTAGE:
SOL1 = 120VAC
SOL2 = 24VDC
SOL3 = 125VDC
SOL4 = 48VDC
SOL5 = 220 - 240 VAC
SOL6 = 250VDC

SIGNAL REQUIRED TO RELEASE KEY
OTHER ARRANGEMENTS AVAILABLE

STANDARD UNIT:
STEEL FRAME/HOUSING
BRASS LOCK CYLINDER
BRASS AND STAINLESS STEEL HARDWARE
FINISH - GRAY POWDERCOAT
ALL ELECTRICAL COMPONENTS UL™ RECOGNIZED
RoHS COMPLIANT - YES
REACH COMPLIANT - YES
CONFLICT MINERALS FREE - YES
WE REQUIRE OUR SUPPLIERS CERTIFY THE SUPPLY
CHAIN IS RoHS AND REACH COMPLIANT, AND REMAINS
FREE OF "CONFLICT MINERALS".
CERTIFICATION STATEMENTS AVAILABLE - PLEASE
CONTACT US

SOME OF THE AVAILABLE OPTIONS:

CCKL	COLOR CODE KEY AND LOCK
CORD	COORDINATION OF KEY NUMBER
DC2	S/S SPRING TYPE DUST COVER
DC3	LG PUSH ON DUST COVER
DUAL	DUAL COMBINATED LOCK CYLINDER
KC	KEYING CHARGE-SPEC.KEY #
PBLC	COMBO PUSHBUTTON & LIGHT
RKR	REVERSE KEY RELEASE PER SPEC
SPSW	SPECIAL SWITCH PER SPEC
SRTK	SIGNAL REQ'D TO TRAP KEY
SW3	SWITCH- 3 POLE DOUBLE THROW
SW4	SWITCH- 4 POLE DOUBLE THROW
SW4S	2 NO & 2 NC DRY CONTACTS
SWLT	SWITCHED LIGHT PER SPEC
WPCS	WIRING PER CUSTOMER'S SPEC
XTPS	SKRU XTRA TRAPPED POSITION

WHEN USING THIS INTERLOCK OR ANY INTERLOCK
SYSTEM:
OPERATORS MUST BE PROPERLY TRAINED AND FOLLOW
THE DOCUMENTED PROCEDURE(S) PER FACILITY, LOCAL,
CITY, STATE, FEDERAL AND OSHA CODES AND LAWS.

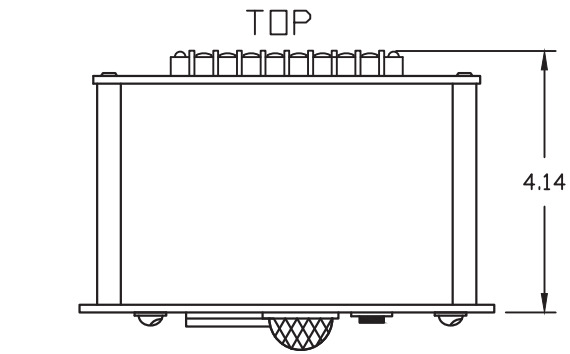
* USE ONLY DRY GRAPHITE TO LUBRICATE LOCK
CYLINDERS

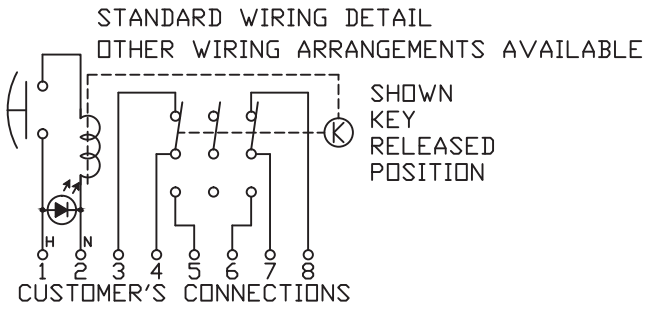
CALL OR VISIT OUR WEBSITE FOR MORE INFORMATION.

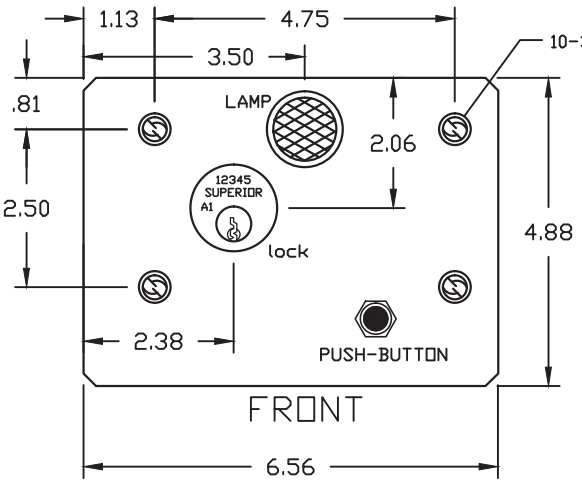
WE AT SUPERIOR INTERLOCK DO OUR BEST TO ENSURE
THE ACCURACY OF THE INFORMATION PROVIDED. NO
LIABILITY CAN BE TAKEN FOR ANY UPDATES, ERRORS
AND/OR OMISSIONS. SUPERIOR INTERLOCK CORPORATION
RESERVES THE RIGHT TO UPDATE, CHANGE AND/OR
IMPROVE THE INFORMATION PROVIDED, ADITIONALY TO
CORRECT ERRORS, INACCURACIES, AND/OR OMISSIONS AT
ANY TIME WITHOUT PRIOR NOTICE. THIS IS PART OF
OUR CONTINUAL IMPROVEMENT PROCESS.

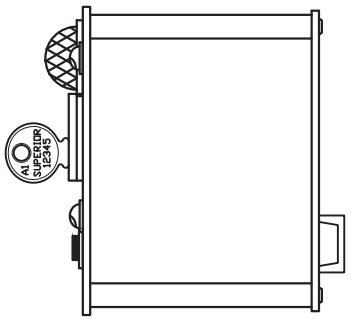
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

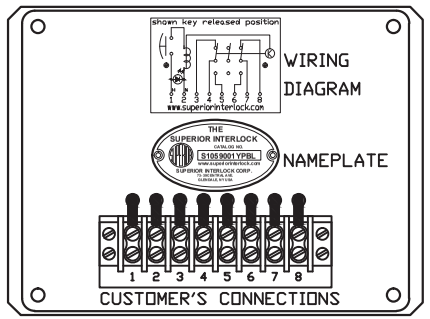
para 2.7.2 (key/electrical interlock)











SUPERIOR INTERLOCK CORP
73-39 Central Avenue
Glendale, NY 11385-8202
(718) 821-8949
fax (718) 417-6162
www.superiorinterlock.com

TITLE: SOLENOID KEY RELEASE INTERLOCK UNIT
(SKRU) 1 KEY INTERLOCK UNIT, PANEL MOUNT

CUSTOMER
FILE
PLEASE ADVISE END USER

drawn by: RICHARD A. HUBER

FILE#: FILE

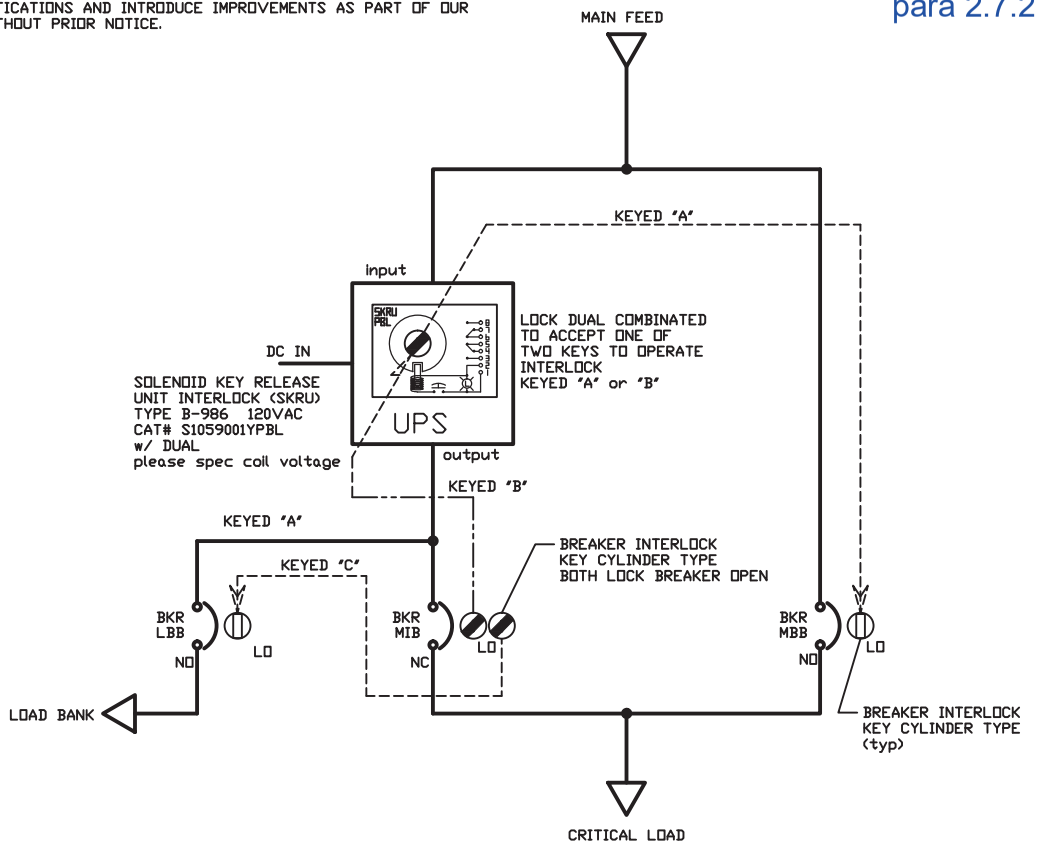
SIZE	DWG NO.	REV
A	S1059001YPBL	0

SCALE	DO NOT SCALE		SHEET
1:3		05/18/2015	1 of 1

WHEN USING THIS OR ANY INTERLOCK SYSTEM:
OPERATORS MUST BE PROPERLY TRAINED AND FOLLOW THE DOCUMENTED PROCEDURE(S) PER FACILITY, LOCAL, CITY, STATE, FEDERAL AND OSHA CODES AND LAWS.
* SYSTEM SHOWN IN OPERATING CONDITION
* USE ONLY DRY GRAPHITE ONLY TO LUBRICATE LOCK CYLINDERS
WE AT SUPERIOR INTERLOCK MAKE EVERY EFFORT TO ENSURE THE ACCURACY OF INFORMATION PROVIDED, NO LIABILITY CAN BE TAKEN FOR ANY ERRORS OR OMISSION. SUPERIOR INTERLOCK CORP. RESERVES THE RIGHT TO ALTER SPECIFICATIONS AND INTRODUCE IMPROVEMENTS AS PART OF OUR CONTINUOUS IMPROVEMENT PROGRAM WITHOUT PRIOR NOTICE.

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

para 2.7.2 (key/electrical interlock)



LOCKED POSITION WITHOUT KEY
UNLOCKED POSITION WITH KEY TRAPPED

LO = LOCKS EQUIPMENT OPEN
NO = EQUIPMENT NORMALLY OPEN
NC = EQUIPMENT NORMALLY CLOSED

INTER	KEY#	INTER	KEY#	INTER	KEY#
A	000000	B	000000	C	000000

000000 = number to be assigned

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info@superiorinterlock.com
www.superiorinterlock.com

drawn by: RICHARD A. HUBER

FILE#: -

TITLE
UPS INTERLOCK SYSTEM

CUSTOMER
CUST: FILE
PLEASE ADVISE END USER

SIZE	DWG NO.	REV
A	UPSwithLBB 1Kcyl	0

SCALE		SHEET
N/A	09/12/2025	1 of 1