

## **Section II - Electrical**

### 1. Intersect Switch

# AA-G PTLC Series

*Power Transfer Load Center (PTLC) with Refined Features and Functionality*



Actual product may vary from photograph. Please request product drawings from [solutions@intersectinc.com](mailto:solutions@intersectinc.com)

For Service Entrance (UL 891 Listed) or sub-panel installations, the factory-wired AA-G PTLC saves space and installation time. The panel integrates main disconnect breakers, a branch breaker panel board, an automatic transfer switch (combined with manual transfer to one of two emergency sources) and whole-facility surge protection. The PTLC satisfies all of your electrical power requirements in one cabinet, reducing labor and equipment costs.

#### Automatic Transfer Switch, ASCO® Series 300 with Group G Controller

- Single solenoid, true double-throw, transfer mechanism
  - UL 1008 Listed
  - Complies with NFPA 110 for Emergency and Standby Power Systems
- Group G Controller offers easy to navigate LCD display with soft keypad and six (6) LED indicators
- Historical event log (up to 300 events)
- Statistical monitoring information
- Diagnostic functions
- Pre- and post-transfer time delay settings for transfer and re-transfer
- Voltage & frequency sensing
  - Under and over frequency settings on normal and emergency
  - Voltage and frequency parameters adjustable in 1% increments
- Auto start/stop engine control contacts are standard to the ASCO ATS

#### Surge-protected Loads from a 42-circuit Square D Panel Board

- Strikesorb® protection
  - Protection characteristics remain unchanged throughout service life
  - Loads are never left unprotected, as Strikesorb operates to a short circuit and trips main disconnect breaker in the event of a long duration, catastrophic over-voltage event
- Square D panel board accepts both bolt-on and plug-in branch circuit breakers

All indoor PTLCs are configured with Accessories 11BE Programmable Engine Exerciser, and 18RX Relays for Source Availability. See reverse side for additional details.

## Intersect™, Inc.

Quality products. Premium customer care. Integrated solutions.

## General Data

### Enclosure weight & dimensions

Varies by amperage and service voltage.

Please request product number drawings.

### UL certification

UL 891 Listed panel

## Load Center

### Type

Square D

### Circuit breaker positions

42 circuits

### Circuit breaker type

Square D bolt-on or plug-in branch devices

## ATS Accessories (standard)

### 11BE – Fully-programmable engine exerciser

- Seven independent engine generator exerciser routines to exercise an engine generator, with or without load, on a daily, weekly, bi-weekly or monthly basis
- Exerciser setting can be displayed and changed from the user interface keypad
- RS 485 and MODBUS-enabled with common alarm output contact

### 18RX – Relays for source availability

- Contacts for utility and one emergency source (second emergency contacts are on switch)
- Additional output relay, default to indicate common alarm

## Optional Accessories

### 23GA – Load current metering card

Measures 200 A, 1Ø load current

### 23GA-400 – Load current metering card

Measures 400 A, 1Ø load current

### 23GB – Load current metering card

Measures 200 A, 3Ø load current

### 23GA-400 – Load current metering card

Measures 400 A, 3Ø load current

### 72EE – Remote connectivity module

- Content-rich monitoring screens enable real time information for power metering, event logs, voltages, time delays, and alerts
- Web page dashboards can easily be viewed on any mobile or desktop device on the network by multiple users
- Allows for remote switch transfer

Product No	Description
AA-G-1220042-3S	120/240; 200 A, 1Ø; 3-source Mains; ASCO Series 300-G plus MTS; Strikesorb; 42-position Square D panelboard; Accessories 11BE, 18RX; NEMA Type 1 enclosure
AA-G-3320042-3S	120/208; 200 A, 3Ø; 3-source Mains; ASCO Series 300-G plus MTS; Strikesorb; 42-position Square D panelboard; Accessories 11BE, 18RX; NEMA Type 1 enclosure
AA-G-1240042-3S	120/240; 400 A, 1Ø; 3-source Mains; ASCO Series 300-G plus MTS; Strikesorb; 42-position Square D panelboard; Accessories 11BE, 18RX; NEMA Type 1 enclosure
AA-G-3340042-3S	120/208; 400 A, 3Ø; 3-source Mains; ASCO Series 300-G plus MTS; Strikesorb; 42-position Square D panelboard; Accessories 11BE, 18RX; NEMA Type 1 enclosure
AA-G-1220042-100R-3S <sup>1</sup>	120/240; 200 A, 1Ø; 3-source Mains; ASCO Series 300-G plus MTS; Strikesorb; 42-position Square D panelboard; Accessories 4AR, 11BE, 18RX;; 65 kA; NEMA Type 1 enclosure
Optional Accessories	
23GA	120/240; 200 A, 1Ø; current metering card with 2 wired current transformers
23GA-400	120/240; 400 A, 1Ø; current metering card with 2 wired current transformers
23GB	120/208; 200 A, 3Ø; current metering card with 3 wired current transformers
23GB-400	120/208; 400 A, 3Ø; current metering card with 2 wired current transformers
72EE	120/240; 200 A or 400 A, 1Ø or 3Ø; connectivity module

1. For use only when required by local jurisdiction

## Suppression Technology

### Technology type

Strikesorb 40mm, 120 V modules  
(one per phase, L-N)

### UL certification

UL 1449 3rd Edition

### Nominal operating voltage

120 V

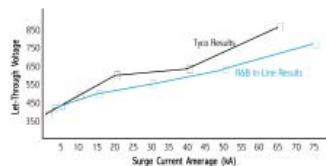
### Suppressed voltage rating (SVR)

UL 1449, Feb 2007 tested <500 V

### Maximum continuous operating voltage (MCOV)

150 V

### Let through voltage



### Available interrupt current (AIC)

UL Recognized for direct installation behind any breaker in any circuit with an AIC rate of 85 kA rms without use of additional fusing.

UL Recognized fore direct installation in any circuit having an available fault current up to 200,000 A rms, when protected by a 4000 A Class L fuse.

### Remote alarming

Form "C" relay

### Multiple surge resilience

2,000 hits at 10 kA (8/20 µs) (Represents the ability to withstand multiple strikes with less than a 5% change in characteristics.)

### Long duration surge performance

250 hits at 500 A, 2 msec squared waveform (IEEE C62.11)

All specifications subject to change without notice.

ASCO® is a registered trademark of ASCO Power Technologies.

Strikesorb® is a registered trademark of Raycap Corporation.

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www.intersectinc.com

**Intersect, Inc.**

## **Section II - Electrical**

### 2. Surge Suppressor

# JSP – 200

## HEAVY DUTY FOR SERVICE ENTRANCE APPLICATIONS



### FEATURES AND BENEFITS

- Listed to UL 1449 3rd Edition for a Type 1 and Type 2 SPD application.
- Fail-safe design with individually fused Metal Oxide Varistors (MOVs) eliminating single point failure, protecting against both overcurrent and overvoltage events.
- 200kAIC short circuit rating permits direct bus connection to most electrical services.
- Low let through voltage ensured by the lowest possible impedance path to ground and equal current sharing during surge events.
- All weather sealed, powder-coated NEMA 4/IP65 housing is designed for any orientation and indoor/outdoor applications.
- 10-year standard warranty with optional 15-year extended warranty.

### AVAILABLE CONFIGURATIONS

Model Number	Voltage	Configuration
JSP200-1P120	120V	1-Phase, 2-Wire + Ground
JSP200-1P240	240V	1-Phase, 2-Wire + Ground
JSP200-1S240	120/240V	2-Phase, 3-Wire + Ground
JSP200-3Y208	120/208V	3-Phase Wye, 4-Wire + Ground
JSP200-3Y380	220/380V	3-Phase Wye, 4-Wire + Ground
JSP200-3Y415	240/415V	3-Phase Wye, 4-Wire + Ground
JSP200-3Y480	277/480V	3-Phase Wye, 4-Wire + Ground
JSP200-3Y600	347/600V	3-Phase Wye, 4-Wire + Ground
JSP200-3H240	120/240V	3-Phase High-Leg, 4-Wire + Ground
JSP200-3D240	240V	3-Phase Delta, 3-Wire + Ground
JSP200-3D380	380V	3-Phase Delta, 3-Wire + Ground
JSP200-3D480	480V	3-Phase Delta, 3-Wire + Ground
JSP200-3D600	600V	3-Phase Delta, 3-Wire + Ground

Units suitable for TT and IT grounded power systems available upon request. Consult factory for model number.

#### Warranty

10-years (Optional 15-years)

#### Available Options

Surge Counter	Add suffix -B
Transient Filter	Add suffix -F (Meets UL 1283*)
Stainless Steel Enclosure	Add suffix -S

\*Not recommended when using telecommunication rectifiers.

#### EMI/RFI Filter Attenuation

Max. Attenuation Frequency	41dB @ 106kHz
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### PRODUCT SPECIFICATIONS

#### Electrical

Maximum Surge Current Rating	200kA per phase, 100kA per mode
Nominal Discharge Current Rating (I-n)	20kA
Operating Frequency	47–63Hz
Connection Method	Parallel to electrical distribution system
Modes of Protection	All Modes (L-N, L-G, N-G, L-L)
Fault Rating (SCCR)	200kAIC – no upstream over-current protection device (breaker or fuse) required
Response Time	Less than 1 nanosecond
Standard Monitoring	Status indicator lights (one per phase) Standard Dry (From C) Relay Contacts Audible Alarm with Silence Button

#### Mechanical

Weight	40 lbs. (9 kg)
Enclosure Type	Powder coated, impact-resistance steel, weather-proof NEMA 4
Installation Location	Indoor / Outdoor
Mounting Method	Dual mounting flanges
Operating Environment	-40° to +185°F (-40° to +70°C)
Altitude	Up to 13,000 ft. (4000 m)
Product Design	Parallel design with individually fused MOVs

#### Regulatory

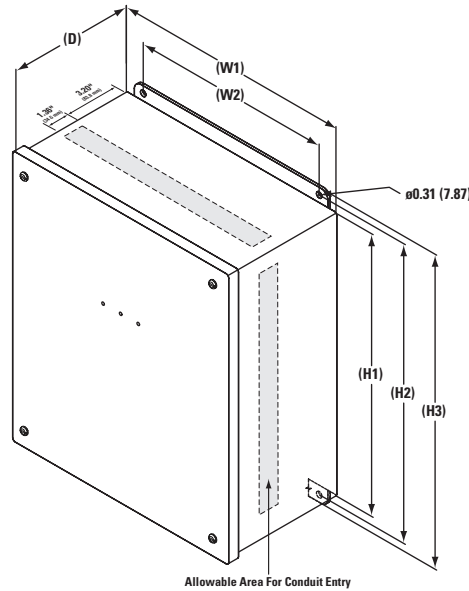
UL 1449 3rd Edition Type	Type 1
UL 1283	Yes
IEEE C62.41.1, .2, C62.45	Yes
Listed By	UL
CE	Yes

# JSP 200 PERFORMANCE DATA

ANSI/IEEE C62.41.1-2002, C62.41.2-2002, & C62.45-2002 Measured Limiting Voltage

Model Number	Voltage Configuration	Protection Mode	MCOV	B3 Ring Wave 6kV, 500A	B3/C1 Combo Wave 6kV, 3kA	C3 Combo Wave 20kV, 10kA	UL 1449 3rd Edition 6kV, 3kA VPR
JSP200-1P120	1P120	L-N	150V	464V	502V	907V	800V
		L-G	150V	672V	627V	1173V	800V
		N-G	150V	512V	568V	1090V	800V
JSP200-1P240	1P240	L-N	320V	427V	828V	1170V	1200V
		L-G	320V	944V	996V	1540V	1200V
		N-G	320V	848V	899V	1500V	1200V
JSP200-1S240	1S240	L-N	150V	464V	502V	907V	800V
		L-G	150V	672V	627V	1173V	800V
		L-L	300V	576V	864V	1267V	1200V
JSP200-3Y208	3Y208	N-G	150V	512V	568V	1090V	800V
		L-N	150V	464V	502V	907V	800V
		L-G	150V	672V	627V	1173V	800V
JSP200-3Y380	3Y380	L-L	300V	576V	864V	1267V	1200V
		N-G	150V	512V	568V	1090V	800V
		L-N	320V	427V	828V	1170V	1200V
JSP200-3Y415	3Y415	L-G	320V	944V	996V	1540V	1200V
		L-L	640V	555V	1497V	1950V	1800V
		N-G	320V	848V	899V	1500V	1200V
JSP200-3Y480	3Y480	L-N	320V	427V	828V	1170V	1200V
		L-G	320V	944V	996V	1540V	1200V
		L-L	640V	555V	1497V	1950V	1800V
JSP200-3Y600	3Y600	N-G	320V	848V	899V	1500V	1200V
		L-N	420V	715V	1250V	1910V	1500V
		L-G	420V	829V	1340V	1960V	1500V
JSP200-3H240	3H240	L-L	840V	1130V	2300V	2910V	2500V
		N-G	420V	670V	1230V	1880V	1500V
		L-N	150V	464V	502V	907V	800V
JSP200-3D240	3D240	H-N	320V	427V	828V	1170V	1200V
		L-G	150V	672V	627V	1173V	800V
		H-G	320V	944V	996V	1540V	1200V
JSP200-3D380	3D380	L-L	320V	576V	864V	1267V	1200V
		H-L	470V	980V	1250V	1640V	1500V
		N-G	150V	512V	568V	1090V	800V
JSP200-3D480	3D480	L-G	320V	750V	940V	1650V	1200V
		L-L	320V	630V	1020V	1680V	1200V
		L-G	550V	1050V	1450V	2160V	1800V
JSP200-3D600	3D600	L-L	550V	860V	1670V	2470V	1800V
		L-G	550V	1050V	1450V	2160V	1800V
		L-L	750V	860V	1670V	2470V	1800V
JSP200-3D600	3D600	L-G	750V	1245V	1960V	2760V	2500V
		L-L	750V	1060V	2260V	2960V	2500V
		N-G	750V	1060V	2260V	2960V	2500V

All JSP™ systems measured limited voltages are peak values (±10%) measured from the zero reference point and are in compliance with test and evaluation procedures outlined in NEMA LS1-1992 (2000), paragraphs 2.210 and 3.10.



## DIMENSIONS

Dim	Inches (mm)
H1	14.00 (355.6)
H2	14.75 (374.7)
H3	15.50 (393.7)
W1	12.00 (304.8)
W2	10.00 (254.0)
D	6.20 (157.5)

Thomas & Betts Corporation  
 5900 Eastport Blvd., Bldg. V  
 Richmond, VA 23231  
 Phone: 800.238.5000  
[www.tnbpowersolutions.com](http://www.tnbpowersolutions.com)



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## **Section II - Electrical**

### 3. Surge Suppressor Disconnect

Product availability : Stock - Normally stocked in distribution facility



Price\* : 638.00 USD



### Main

Product or component type	Single Throw Safety Switch
Line Rated Current	60 A
Product certifications	UL listed
NEMA degree of protection	NEMA 1 steel
Device composition	None
Disconnecter device type	Fusible disconnect
Short-circuit current	10 kA H or K 200 kA R, J or L
Device mounting	Surface
Number of poles	3
Electrical connection	Lugs
Series name	Heavy duty
System Voltage	600 V AC/DC
AWG gauge	AWG 14...AWG 3 (copper or aluminium)

### Ordering and shipping details

Category	00008 - H&HU SW,2&3P,N1,30-200A
Discount Schedule	DE1
GTIN	00785901482147
Nbr. of units in pkg.	1
Package weight(Lbs)	15.32
Returnability	Y
Country of origin	US

### Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1313 - Schneider Electric declaration of conformity



 [Schneider Electric declaration of conformity](#)

REACH	Reference not containing SVHC above the threshold <a href="#">Reference not containing SVHC above the threshold</a>
Product environmental profile	Available
Product end of life instructions	Need no specific recycling operations

**Contractual warranty**

Warranty period	18 months
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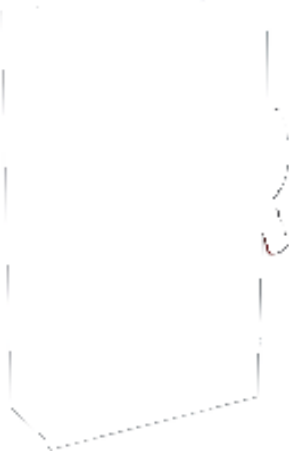
## **Section II - Electrical**

### 4. Service Entrance Rated Disconnect

Product availability : Stock - Normally stocked in distribution facility



Price\* : 1869.00 USD



### Main

Product or component type	Single Throw Safety Switch
Line Rated Current	200 A
Product certifications	UL listed
NEMA degree of protection	NEMA 1 steel
Device composition	Neutral (factory installed)
Disconnecter device type	Fusible disconnect
Short-circuit current	10 kA H or K 200 kA R, J or L
Device mounting	Surface
Number of poles	3
Electrical connection	Lugs
Series name	Heavy duty
System Voltage	600 V AC/DC
AWG gauge	AWG 6...250 kcmil (copper or aluminium)

### Ordering and shipping details

Category	00008 - H&HU SW,2&3P,N1,30-200A
Discount Schedule	DE1
GTIN	00785901482338
Nbr. of units in pkg.	1
Package weight(Lbs)	45.78999999999999
Returnability	Y
Country of origin	US

### Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1313 - Schneider Electric declaration of conformity

 [Schneider Electric declaration of conformity](#)

REACH	Reference not containing SVHC above the threshold <a href="#">Reference not containing SVHC above the threshold</a>
Product environmental profile	Available
Product end of life instructions	Need no specific recycling operations

**Contractual warranty**

Warranty period	18 months
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## **Section II - Electrical**

5. 75KVA Transformer

Product availability : Stock - Normally stocked in distribution facility



Price\* : 8188.00 USD



### Main

Range of product	Square D
Product or component type	Energy Efficient Transformer
Device application	Low voltage electrical distribution
Number of tap-offs	2-2.5 % FCAN 4-2.5 % FCBN

### Complementary

Primary voltage	480 V delta
Rated operational power in VA	75 kVA
Type of cooling	Natural convection
Secondary voltage	208Y/120 V
Network frequency	60 Hz
Phase	3 phases
AWG gauge	AWG 6...350 kcmil AWG 14...AWG 2/0
Temperature rise	115 °C 220 °C insulated
Material	Copper
Mounting support	Floor Ceiling, with specific accessories Wall, with specific accessories
Depth	577.85 mm
Width	763.6 mm
Height	42 in (1066.8 mm)
Product weight	342.46 kg

### Environment

Standards	NEMA ST-20
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UL 1561

Degree of protection	UL type 1 UL type 3R, with accessory
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### Ordering and shipping details

Category	16250 - 3PH EX/2016 15-150KVA LVGP XFMR
Discount Schedule	PE2X
GTIN	00785901472599
Nbr. of units in pkg.	1
Package weight(Lbs)	789
Returnability	Y

### Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1601 - Schneider Electric declaration of conformity <a href="#">Schneider Electric declaration of conformity</a>
REACH	Reference not containing SVHC above the threshold <a href="#">Reference not containing SVHC above the threshold</a>
Product environmental profile	Available
Product end of life instructions	Need no specific recycling operations

## **Section II - Electrical**

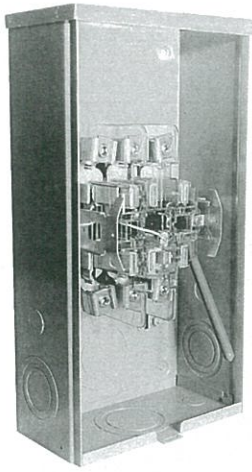
### 6. Meter Can



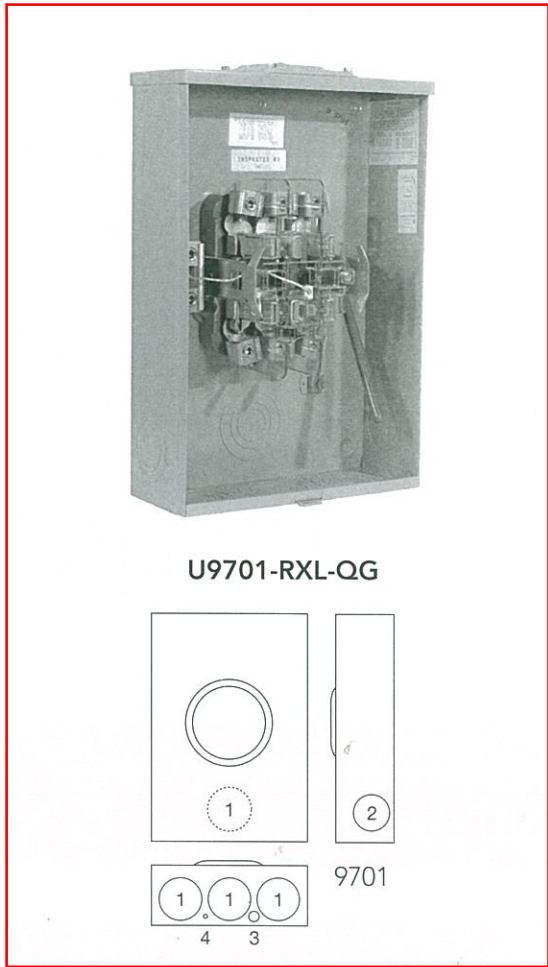
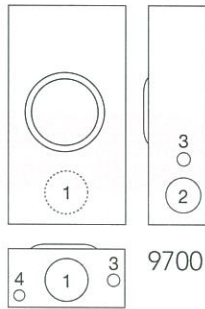
# Lever Bypass Single Position

200 Amps | 7 Terminals | Ringless | 600 VAC

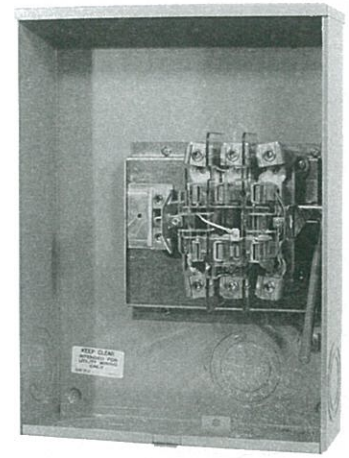
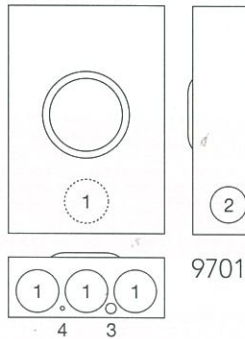
**17**  
200 AMP  
LEVER  
BYPASS  
SOCKETS



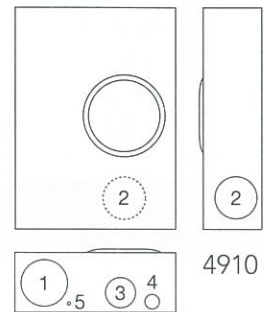
U9700-RRL-QG-BL



U9701-RXL-QG



U4910-O-BL



200 Amps | 7 Terminals | Ringless | Single Position | 3Ø4W<sup>1</sup>

Catalog Number	Service	Hub	Connectors CU/AL	Bypass	Dimensions			Knockouts				
					D"	W"	H"	1	2	3	4	4
U9700-RRL-QG-BL	OH	H.O.	#6-350	Lever	4 <sup>7</sup> / <sub>8</sub>	10	18 <sup>1</sup> / <sub>2</sub>	3	2 <sup>1</sup> / <sub>2</sub>	<sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>4</sub> , <sup>1</sup> / <sub>2</sub>	—
U9701-RXL-QG	OH/UG	C.P.	#6-350	Lever	4 <sup>7</sup> / <sub>8</sub>	13	19	3	2 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>4</sub> , <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>4</sub>	—
U4910-O-BL	UG	Blank	#6-350	lever	5 <sup>3</sup> / <sub>4</sub>	16	22	4	3 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>2</sub>	1	1 <sup>1</sup> / <sub>4</sub>

## Notes

- **Hubs:** For proper hub selection, see the hub suffix chart on the Accessories page.
- **Bypass:** The lever supplies clamping action on meter spades and also operates bypass device.
- **Connectors:** Extruded aluminum connectors are tin plated.

Utility requirements for this equipment may vary. Always consult the serving utility for their requirements prior to ordering or installing this equipment. This product must be installed by a licensed electrician. Installation of this equipment may require local electrical inspector approval.

