HUBBELL[®] Power Systems, Inc.

28KV 200A LOADBREAK ELBOW SURE-BREAK™

1850 Richmond Ave East Aiken, SC 29801 Phone: 803-648-8386

www.Hubbellpowersystems.com



ORDERING INFORMATION

- 1. SELECT ELBOW SIZE (X) BASED ON INSULATION DIAMETER
- 2. SELECT CONNECTOR SIZE (Y) BASED ON CONDUCTOR, OR "0" FOR NO CONNECTOR
- 3. ADD "P" TO THE END IF A PROBELOK CONNECTOR IS REQUIRED
- 4. ADD "T" TO THE END IF A TEST POINT IS REQUIRED
- 5. ADD "J" TO THE END IF A JACKET SEAL KIT IS REQUIRED
- 6. ADD "S" TO THE END IF A SHIELD ADAPTER KIT IS REQUIRED

228LESxy(P)(T)(J)(S)

EXAMPLE 1: 228LES45

28KV 200A SURE-BREAK™ ELBOW SIZE 4 WITH A SIZE 5 CONNECTOR

EXAMPLE 2: 228LES34TS

28KV 200A SURE-BREAK™ ELBOW SIZE 3 WITH SIZE 4 CONNECTOR, A TEST POINT AND A SHIELD ADAPTER

DIAMETER ACROSS INSULATION				
SIZE (X)	INCH	MM		
3	0.610 - 0.880	15,5 - 22,4		
4	0.800 - 1.140	20,3 - 29,0		
5	0.920 - 1.310	23,4 - 33,3		
6	1.070 - 1310	27,2 - 33,3		

CONN. CODE "Y"	CONDUCTOR SIZE		
CONN. CODE Y	STD OR COMPRESSED	SOLID OR COMPACTED	
1	6	4	
2	4-3	2-3	
3	2	1	
4	1	1/0	
5	1/0	2/0	
6	2/0	3/0	
7	3/0	4/0	
8	4/0	250	

03/19/2021

Ratings

Maximum Continuous Voltage	16.2 kV Phase-to-Ground
_	28.0 kV Phase-to-Phase
Continuous Current	200 A

Short-Time Current Ratings

0.17 Sec.	Duration	10,000 A rms	Symmetrical
3.00 Sec.	Duration	3,500 A rms	Symmetrical

Insulation Withstand Voltages

		,
Basic Impulse Level	125 kV Crest (1	1.2 x 50 µ Sec. wave)
60 Hz (60 Sec.)		45 kV rms
Partial Discharge Extinction V	oltage (5 pC)	21.5 kV rms

Operating Interface Withstand

The Hubbell Sure-Break™ Elbow meets OIACW Level 1

Switching

1-Phase & 3-Phase Circuits 16.2 kV Phase-to-Ground, 28.0 kV maximum across the open contacts. 10 make/break operations at 200 A with 0.70-0.80 lagging power factor.

Fault Closure

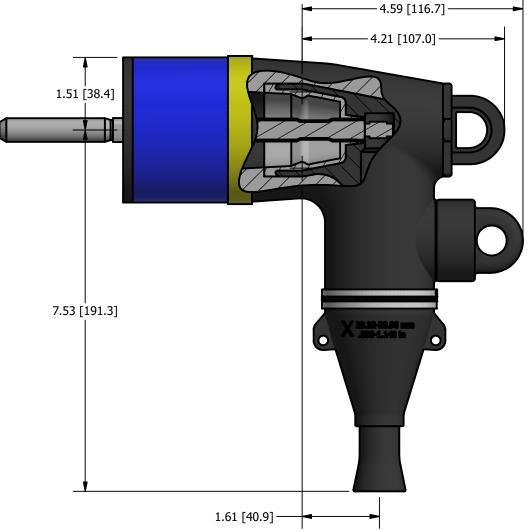
One Fault-Close Operation at max 16.2 kV Phase-to-Ground, or max 28.0 kV Phase-to-Phase; max 10,000 A rms Symmetrical, 10 Cycles (0.17 Sec.).

Production Tests

100% factory tested for Partial Discharge and either AC 60 Hz (45 kV for 60 Sec.) or Impulse (BIL) (125 kV 1.2 x 50 µSec. wave).

Benefits

- Tested with a worst case, non vented bushing, to achieve Level 1 (highest level) requirements of IEEE 386 Clause 7.5.2 for partial vacuum flash-over
- Two times the amount of strike distance compared to a standard load-break elbow



	HUBBELL POWER SYSTEMS, Inc.						
	^{ΤΙΤΙΕ} 28ΚV 200A						
THE	SURE-BREAK™ ELBOW						
N, MADE	SIZE	DWG NO.		CA	T / PART / ASSY NO.		REV
OF BLISHED	SB	1		2	28LES		0
E	_	NOT SCALE S DRAWING	DRN BY BVB		DATE 03/19/2021	SHEET 1 OF	1

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