

AUSTIN ENERGY

PURCHASE SPECIFICATION

FOR

CUTOUT, 100 AMP 7.2/12/47 KV SYSTEM

OPENTYPE

Issuance/Department Approval

DATE	PREPARED BY	ISSUANCE/REVISION	APPROVAL
			PROCESS MANAGER/M&ESS MANAGER
6/25/85	Robin L. Kittel	Issuance	_____
3/23/88	Robin L. Kittel	Revision	_____
6/27/05	Dennis Patrick	Revision	_____

<i>REASON FOR REVISION</i>	<i>AFFECTED PARAGRAPHS</i>
06/27/05 Changed wording in Scope	1.1.1, 1.1.2, 1.1.3, 1.1.4
06/27/05: Changed the BIL requirements to 110 BIL	1.2.1
06/27/05 Added minimum continuous amps	1.2.4
06/27/05 Added industry specs	2.1
06/27/05 Added moisture proof	3.1.1
06/27/05 Added interchangeability with Linkbreak Door	3.1.3
06/27/05 Specified metals and amps	3.2.5
06/27/05: Added requirement of a rain guard	3.2.6
06/27/05 Added Interchangeability	4.1

**THIS SPECIFICATION, UNTIL RESCINDED, SHALL APPLY TO EACH FUTURE PURCHASE AND CONTRACT FOR THE COMMODITY DESCRIBED HEREIN.
 RETAIN FOR FUTURE REFERENCE.**

**CITY OF AUSTIN ELECTRIC UTILITY DEPARTMENT
PURCHASE SPECIFICATION
FOR
CUTOUT, 100 AMP, 7.2/12.47 KV
OPEN TYPE**

1.0 SCOPE AND CLASSIFICATION

1.1 Scope

- 1.1.1 The City of Austin Electric Utility Department is hereinafter referred to as Austin Energy (AE). Austin Energy requires a qualified manufacturer to supply cutouts, open type, dropout action fuses, for overhead distribution systems.
- 1.1.2 No deviation from this specification will be permitted without specific approval from the Austin Energy Standards Engineer.
- 1.1.3 Only manufacturers' products approved by the Austin Energy Standards Engineer will be acceptable.
- 1.1.4 Notice is hereby given to the cutout manufacturers, Austin Energy employees and personnel are not authorized to amend, revise, or waive this specification or the standard terms. Also, no "work order," "receipt," or similar manufacturer-prepared document shall be effective to amend, revise, or waive these specifications or the City of Austin's Standard Terms and Conditions. In the event of any conflict between this specification and the City of Austin's Standard Terms and Conditions, the provisions of this specification shall govern.

1.2 Classification

- 1.2.1 Cutout shall be rated at 14.4 KV nominal and 15 KV maximum, **110 KV BIL**, for operation on a 7.2/12.47 KV system.
- 1.2.2 Cutout body shall be rated 300-ampere minimum and be suitable for converting to a 300 ampere disconnect with the addition of a 300-ampere solid blade.
- 1.2.3 Cutout shall be single vented and have an interrupting rating of 10,000 amperes asymmetrical (single shot 12,000 amperes). The maximum design voltage shall be 15 KV. The leakage distance to ground shall be a minimum of 8 1/2 inches.
- 1.2.4 The fuse holder shall have a minimum continuous rating of 100 amperes.

2.0 APPLICABLE STANDARDS

- 2.1 Unless otherwise stated in these specifications, cutouts, fuse holders and hangers supplied under these specifications shall be the manufactures standard cutouts, fuse holders and hangers and shall meet all applicable requirements of **EI-NEMA SG-2-1986, and ANSI C37.41.1994 and ANSI C37.42.1989 Standards.**

3.0 PHYSICAL REQUIREMENTS

3.1 FUSE HOLDER

- 3.1.1 Fuse holder shall be NEMA Standard, moisture proof, and shall drop open after the fuse link severs.
- 3.1.2 The fuse holder shall have an eye for a hotstick operation.
- 3.1.3 All fuse holder Assemblies shall be interchangeable with a linkbreak fuse holder assembly.

3.2 BODY

- 3.2.1 Cutouts shall be equipped with a closing mechanism such that the fuse holder is held firmly in the closed position.
- 3.2.2 Cutouts shall have parallel groove terminals for #6 said through 4/0 ACSR.
- 3.2.3 Cutout insulator shall be gray porcelain.
- 3.2.4 Cutout shall be equipped with load breakers such that a S and C loadbuster tool may be used for load current switching.
- 3.2.5 All current carrying contacts shall be of copper alloy and silver-plated. All current carrying contacts shall be designed to carry 300 A continuous.
- 3.2.6 Cutout shall come complete with a stainless steel, U-shaped, permanently attached, ice/rain/sleet-guard.

3.3 HANGERS

- 3.3.1 Hangers shall be EEI-NEMA Standard, hot dip galvanized for arm mounting. With the cross arm mounting bracket in an inverted position, the nearest live part of the lower control assembly must maintain at least 5" clearance to the mounting bracket.

4.0 INTERCHANGEABILITY

- 4.1 All approved qualified manufacturer's cutouts shall be designed to be electrically and mechanically interchangeable with S & C's open cutout - type XS.