



Powering Business Worldwide

Three-Phase Pad-Mounted Distribution Transformer Fusing

Functional Specification Guide

Specification for Fusing of Pad-Mounted Transformers

PS132001EN

1.0 Scope

1.1 This specification covers the three main ways that fusing gets inserted in transformer specifications: part number specific, manufacturer specific, generic.

2.0 Part Number Method

2.1 The following is an example of how fusing can get entered based on a specific kVA and voltage rating.

Fusing For Three-Phase Single Voltage Transformers				
High Voltage Rating	Transformer kVA	Assumed Impedance %	38 kV Bay-O-Net Fuse (Cooper Power series)	38 kV Back Up Current-Limiting Fuse (Cooper Power series ELSP)
34,500Δ	150	2	4000380C06CB	CBUC38050D100
	225	3	4000380C06CB	CBUC38050D100
	300	3.50	4000380C06CB	CBUC38050D100
	500	4.00	4000380C08CB	CBUC38050D100
	750	5.75	4000380C10CB	CBUC38065D100
	1000	5.75	4000380C10CB	CBUC38065D100
	1100	5.75	4000380C11CB	CBUC38080D100
	1250	5.75	4000380C11CB	CBUC38080D100
	1500	5.75	4000380C12CB	CBUC38100D100
	1750	5.75	4000380C12CB	CBUC38100D100
	1850	5.75	4000380C12CB	CBUC38100D100
	2000	5.75	4000380C12CB	CBUC38100D100
	2250	5.75	4000380C14CB	CBUC38140D100
	2500	5.75	4000380C14CB	CBUC38140D100
	2850	5.75	4000380C14CB	CBUC38140D100
	3000	5.75	4000380C14CB	CBUC38140D100
3200	5.75	4000380C14CB	CBUC38140D100	

3.0 Manufacturer Method

3.1 The following is an example of exact wording that could be inserted into a manufacturer based specification.

3.1.1 The transformer shall be equipped with Eaton's Cooper Power series Bay-O-Net externally replaceable draw-out overload sensing primary fuses for overload and secondary fault protection coordinated and in series with Eaton's Cooper Power series ELSP backup current-limiting fuse.

3.1.2 The Bay-O-Net fuse holder shall be Eaton's Cooper Power series Flapper valve design. The fuse holder must provide a positive tank seal and provision must be made for equalizing any tank pressure before withdrawing the fuse.

4.0 Generic Method

4.1 The following is an example of exact wording that can be placed into a generic specification.

- 4.1.1 The transformer shall be provided with three, oil-immersed, internally-mounted backup current-limiting fuses in series with properly coordinated Bay-O-Net mounted expulsion fuses.