## **SHORT CIRCUIT CALCULATION**

TRANSFORMER = 1 MVA % IMPEDANCE = 5% SC UTILITY KVA = 100 MVA

PuZs = KVABase / SC UTILITY KVA
PuZs = 1000 KVA/100000 KVA
PuZs = 0.01 pu

PuZ1 = % IMPEDANCE / 100 PuZ1 = 5% / 100 PuZ1 = 0.05 pu

PuZw = 0.9905pu

FAULT CURRENT AT "A"

Isc= 100108.5465 A or 100.1085 Ka

Therefore, the circuit breaker A should be rated not less that 150 Kaic SYMMETRICAL

FAULT CURRENT AT "B"

Isc= 100108.5465 A or 100.1085 Ka

Therefore, the circuit breaker B should be rated not less that 100 Kaic SYMMETRICAL

FAULT CURRENT AT "B"

Isc= 1026.5567A or 102.6557Ka

Therefore, the circuit breaker B should be rated not less that 150 Kaic SYMMETRICAL



	BATANGAS STATE UNIVERSITY THE NATIONAL ENGINEERING	PROFESSIONAL ELECTRICAL ENGINEER:		PROJECT:		CHECKED BY:	SHEET CONTENT	SHEET NO.
	UNIVERSITY			PROPOSED COMMERCIAL BUILDING SCHOOL	ALVERO, MARCO JAKE Y. DAPUG, CHESTER NEIL M.	ENGR. JIM A. VILLANOBOS		
7	COLLEGE OF ENGINEERING ELECTRICAL ENGINEERING	PRC NO.:	VALIDITY:  DATE:	LOCATION:	ESCABEL, OMAR C. MENDOZA, YEREVEN DANIEL O. VALENCIA, AJEM G.	DATE:	SHORT CIRCUIT	20
	DEPARTMENT	ADDRESS:	TIN:	BATANGAS		MAY 2023		