

Project:  
Location:  
Contract:  
Engineer:  
Filename: ali

**ETAP**  
**12.6.0H**  
  
Study Case: SM

Page: 1  
Date: 03-25-2017  
SN:  
Revision: Base  
Config.: Normal

### SHORT- CIRCUIT REPORT

Fault at bus: **Bus8**

Prefault voltage = 33.000 kV  
= 100.00 % of nominal bus kV ( 33.000 kV)  
= 100.00 % of base kV ( 33.000 kV)

Contribution		Line-To-Ground Fault														
		% Voltage at From Bus						Current at From Bus (kA)						Sequence Current (kA)		
		Va		Vb		Vc		Ia		Ib		Ic				
From Bus ID	To Bus ID	Mag.	Ang.	Mag.	Ang.	Mag.	Ang.	Mag.	Ang.	Mag.	Ang.	Mag.	Ang.	I1	I2	I0
Bus8	Total	0.00	0.0	114.66	-123.6	100.41	129.2	29.808	-71.3	0.000	0.0	0.000	0.0	9.936	9.936	9.936
Bus4	Bus8	39.03	6.2	99.34	-113.4	91.03	115.7	6.663	-69.0	0.419	-89.7	0.419	-89.7	2.091	2.091	2.484
Bus5	Bus8	39.03	6.2	99.34	-113.4	91.03	115.7	6.663	-69.0	0.419	-89.7	0.419	-89.7	2.091	2.091	2.484
Bus7	Bus8	39.03	6.2	99.34	-113.4	91.03	115.7	6.663	-69.0	0.419	-89.7	0.419	-89.7	2.091	2.091	2.484
Bus6	Bus8	39.03	6.2	99.34	-113.4	91.03	115.7	6.663	-69.0	0.419	-89.7	0.419	-89.7	2.091	2.091	2.484
Bus44	Bus8	0.33	-19.7	114.70	-123.7	100.55	129.3	0.127	-90.1	0.064	89.9	0.064	89.9	0.064	0.064	0.000
Bus52	Bus8	1.71	-19.4	114.87	-124.1	101.14	129.5	0.662	-89.7	0.331	90.3	0.331	90.3	0.331	0.331	0.000
Bus53	Bus8	1.71	-19.4	114.87	-124.1	101.14	129.5	0.662	-89.7	0.331	90.3	0.331	90.3	0.331	0.331	0.000
Bus54	Bus8	1.71	-19.4	114.87	-124.1	101.14	129.5	0.662	-89.7	0.331	90.3	0.331	90.3	0.331	0.331	0.000
Bus55	Bus8	1.60	-19.4	114.86	-124.0	101.09	129.5	0.617	-89.8	0.308	90.2	0.308	90.2	0.308	0.308	0.000
Bus56	Bus8	1.60	-19.4	114.86	-124.0	101.09	129.5	0.617	-89.8	0.308	90.2	0.308	90.2	0.308	0.308	0.000
Bus2	Bus4	87.16	42.3	100.00	-90.0	76.57	147.3	13.532	-58.7	0.856	-78.9	0.856	-78.9	4.244	4.244	5.050
Bus1	Bus5	87.24	42.3	100.00	-90.0	76.58	147.4	13.556	-79.3	0.849	-100.7	0.849	-100.7	4.256	4.256	5.050
Lump1	Bus44	100.00	0.0	100.00	-120.0	100.00	120.0	0.127	-90.1	0.064	89.9	0.064	89.9	0.064	0.064	0.000
Lump2	Bus52	100.00	0.0	100.00	-120.0	100.00	120.0	0.662	-89.7	0.331	90.3	0.331	90.3	0.331	0.331	0.000
Lump3	Bus53	100.00	0.0	100.00	-120.0	100.00	120.0	0.662	-89.7	0.331	90.3	0.331	90.3	0.331	0.331	0.000
Lump4	Bus54	100.00	0.0	100.00	-120.0	100.00	120.0	0.662	-89.7	0.331	90.3	0.331	90.3	0.331	0.331	0.000
Lump5	Bus55	100.00	0.0	100.00	-120.0	100.00	120.0	0.617	-89.8	0.308	90.2	0.308	90.2	0.308	0.308	0.000
Lump7	Bus56	100.00	0.0	100.00	-120.0	100.00	120.0	0.617	-89.8	0.308	90.2	0.308	90.2	0.308	0.308	0.000
Bus1	Bus2	87.24	42.3	100.00	-90.0	76.58	147.4	0.533	-5.7	0.000	174.3	0.533	174.3	0.308	0.308	0.000
Bus1	Bus2	87.24	42.3	100.00	-90.0	76.58	147.4	0.533	-5.7	0.000	174.3	0.533	174.3	0.308	0.308	0.000
Bus18	Bus2	87.79	40.9	100.00	-90.0	78.74	147.4	0.595	-102.1	0.000	77.9	0.595	77.9	0.343	0.343	0.000
Bus18	Bus2	87.79	40.9	100.00	-90.0	78.74	147.4	0.595	-102.1	0.000	77.9	0.595	77.9	0.343	0.343	0.000
Bus3	Bus1	87.71	42.2	100.00	-90.0	76.86	147.7	0.700	-49.0	0.000	131.0	0.700	131.0	0.404	0.404	0.000
Bus3	Bus1	87.71	42.2	100.00	-90.0	76.86	147.7	1.399	-49.0	0.000	131.0	1.399	131.0	0.808	0.808	0.000

(Cont.)

Fault at bus:    **Bus8**

Prefault voltage        = 33.000   kV

= 100.00 % of nominal bus kV ( 33.000   kV)  
= 100.00 % of base kV ( 33.000   kV)

Contribution		Line-To-Ground Fault														
		% Voltage at From Bus						Current at From Bus (kA)						Sequence Current (kA)		
		Va		Vb		Vc		Ia		Ib		Ic				
From Bus	To Bus													I1	I2	I0
ID	ID	Mag.	Ang.	Mag.	Ang.	Mag.	Ang.	Mag.	Ang.	Mag.	Ang.	Mag.	Ang.			

# Indicates fault current contribution is from three-winding transformers

\* Indicates a zero sequence fault current contribution (3I0) from a grounded Delta- Y transformer