

Network 20 kV  
Skn = 250 MVA

Sn = 400 kVA  
ut = 5,00%  
20/0,4 kV

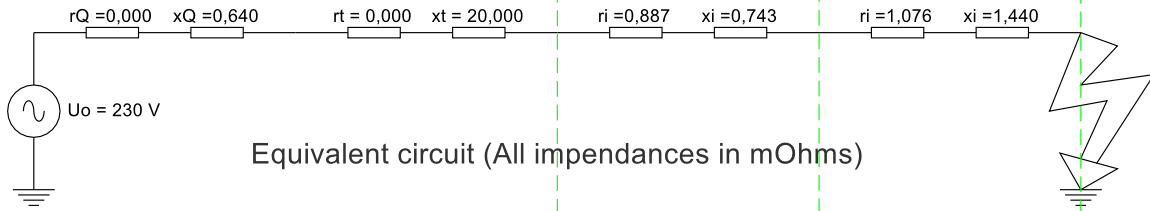
2//H07V-R 1X185  
L = 15 m

E1VV-S 3X300+150  
L = 15 m

MDB1

DB2

Single line Diagram



Equivalent circuit (All impedances in mOhms)

I<sub>k</sub> = 11,1 kA

I<sub>k</sub> = 10,7 kA

I<sub>k</sub> = 10,0 kA

Short-circuit current in KA

Calculations

$R = rQ + rt + \sum ri = 1,96 \text{ mOhm}$

$X = xQ + xt + \sum xi = 22,82 \text{ mOhm}$

$Z = \sqrt{R^2 + X^2} = 22,91 \text{ mOhm}$

$I_k = U_0/Z = 10,0 \text{ kA}$

				Project	iec examples	
				Drawing title	Prospective symmetrical short-circuit current	
				Designer	Distribution board code	Sheet
				Office	DB2	1/1
				Client	Distribution board name	Created
					Switchboard	30/7/2016
				Client	Distribution board type and protection degree	Scale
					Wall mounted, IP23	
Ver.	Modification	Name	Date	Client		

