

PIN s.c.r.l. – Polo Universitario città di Prato
 1MW Photovoltaic System – Yeghegnadzor, Armenia
 Ing. Paolo Taddei Pardelli

Enhancing SME competitiveness through promotion
 and wider use of sustainable innovative technologies

SWITCHBOARD
 MV

SWITCHBOARD CHARACTERISTICS

UPSTREAM PLANT

NET.VOLT. [kV]	10	FREQ. [Hz]	50
SWITCHBOARD RATED CURRENT	630A		
SWITCHBOARD PERSPECTIVE CURRENT	12,5		
NEUTRAL SYSTEM	COMPENSATO		
INTERNAL ARC CLASSIFICATION			
RATED VOLTAGE	24		
RATED SHORT-TIME WITHSTAND CURRENT	12,5	IP	IP2XC

REFERENCE STANDARDS

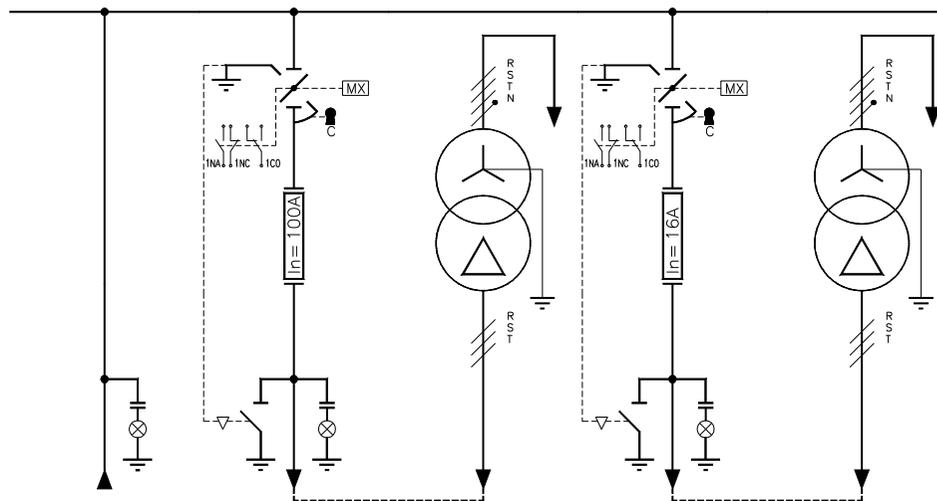
MV CIRCUIT-BRAKER	<input checked="" type="checkbox"/>	— CEI EN 62271-100
MV ENCLOSURE	<input checked="" type="checkbox"/>	— CEI EN 62271-200

CUSTOMERS	PROJECT	FILE SPP Armenia MV Rev.01	
	ARCHIVE	DATE 11/05/2017	REVISION
PLANT SPP YEGHEGNADZOR – ARMENIA	DESIGNER	PAGE 1	NEXT 2
		TABLE	

UPSTREAM PLANT	
PLANT DATA	
NETWORK VOLTAGE	10 (kV)
FREQUENCY	50 (Hz)
SHORT CIRCUIT CURRENT	12,5 (kA)
NEUTRAL SYSTEM	BALANCED
SWITCHBOARD DESIGNATION	

SWITCHBOARD DATA	
ENCLOSURE TYPE	SM6
RATED VOLTAGE	24 (kV)
RATED CURRENT	630 (A)
ICW	12,5 (kA/1s)
INTERNAL ARC WITHSTAND EXEPT CELL - AT7 -	12,5 (kA) x 1(s)
INTERNAL PROTECTION	IP 2XC
AUXILIARY VOLTAGE	230 (V) c.a.

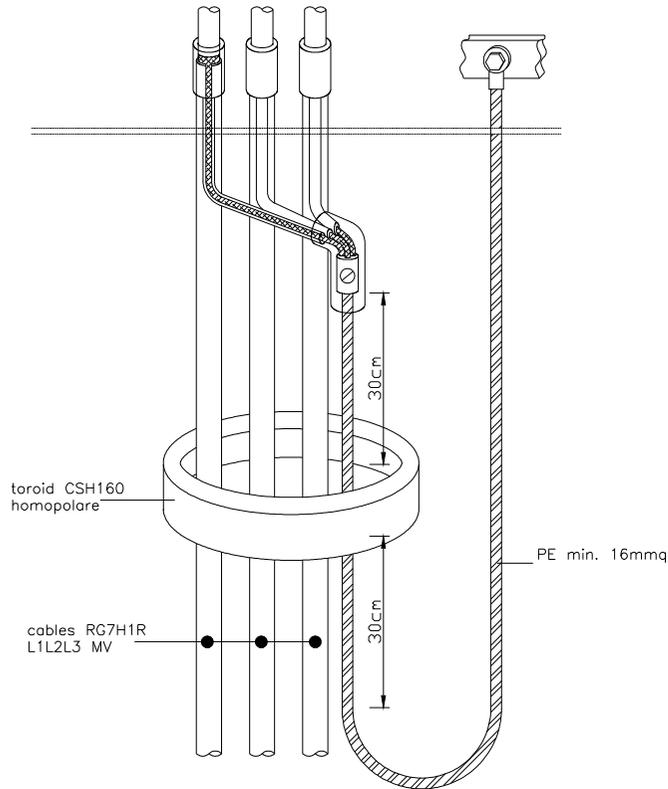
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CEI - EN 62271 - 200



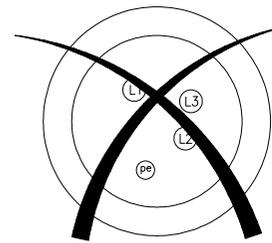
DESCRIPTION		MT SUPPLY		TRANSFORMER PRODUCTION		TRANSFORMER USERS						
GAS INSULATED DISCONNECTOR	Ir (A)			630		630						
	Ik (kA/1s)			12,5		12,5						
GAS INSULATED CIRCUIT BREAKER	Ir (A)											
	Icc (kA)											
FUSE	Type											
	In (A) Un (kV)			100	24	16	24					
SETTING OF TRIP UNIT	Model											
	50/51.0 - I> (DT or EIT)	Is (A)	t (s)									
	50/51.1 - I>>	Is (A)	t (s)									
	50/51.2 - I>>>	Is (A)	t (s)									
	50N/51N.1 - Io>	Iso (A)	t (s)									
	50N/51N.2 - Io>>	Iso (A)	t (s)									
	67N - Io>	Iso (A)	t (s)									
	1* THRESHOLD	Vso (V)	Angle (°)									
67N - Io>	Iso (A)	t (s)										
2* THRESHOLD	Vso (V)	Angle (°)										
27 (Min.Voltage)	Vs (%)	t (s)										
T.A. (Current transformer)	n°	Type										
	Ratio	Perf.										
homopolar transformer	Type											
T.V. (Voltage Transformer)	n°	Type										
	Class	Perf.										
CABLE (Installation metod CEI 11.27)	Sign	Instal.	unipolare		bipolare		unipolare		bipolare			
	Size	L. (m)	95	1	35	10	35	10	5,8	153		
	Ib (A)	Iz (A)	63,5	266	57,7	153						
MV/LV TRANSFORMER	Sn (kVA)	Ucc (%)					1000	6			100	6
	Insulation	Type					OLIO	Trihal			OLIO	Trihal
	Transf. Ratio						10/400				10/400	
LOAD	S (kVA)	Ib (A)										
NOTE							CLASSE: E3 - C3 - F1				CLASSE: E3 - C3 - F1	

CUSTOMERS	PROJECT	FILE SPP Armenia MV Rev.01
	ARCHIVE	DATE 11/05/2017 REVISION
PLANT SPP YEGHEGNADZOR - ARMENIA	DESIGNER	PAGE 2 NEXT 3
		TABLE

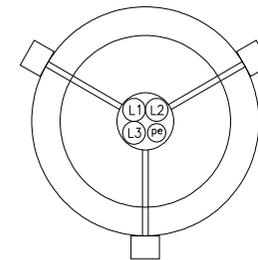
ENCLOSURE FRONT VIEW



PARTICULAR CABLES CENTERING



NO

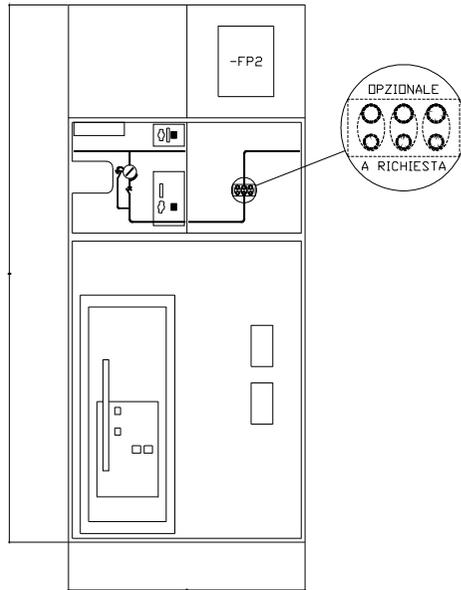


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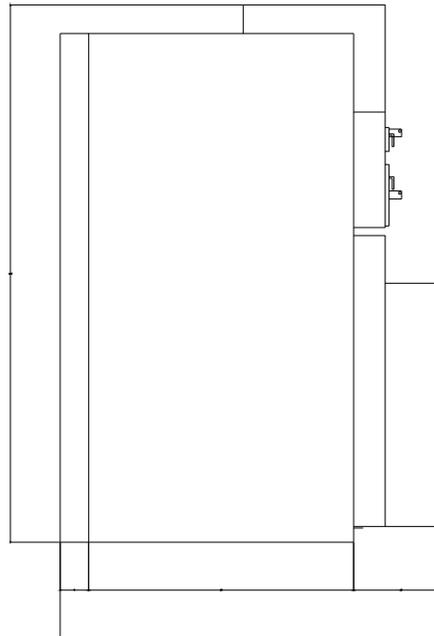
CUSTOMER	PROJECT	FILESPP Armenia MV Rev.01	
	ARCHIVE	DATE 11/05/2017	REVISION
	DESIGNER	PAGE 3	NEXT 4
PLANT	SPP YEGHEGNADZOR - ARMENIA	TABLE	

ENCLOSURE FRONT VIEW

FRONT



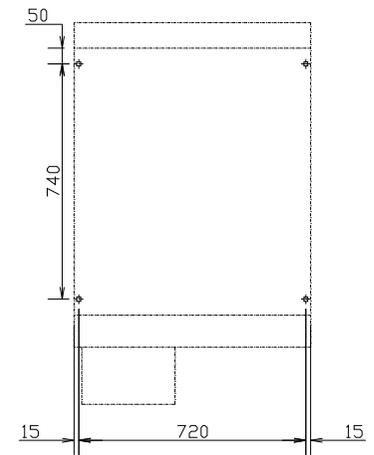
SIDE



SLAB DRILLING

TOP

FRONT

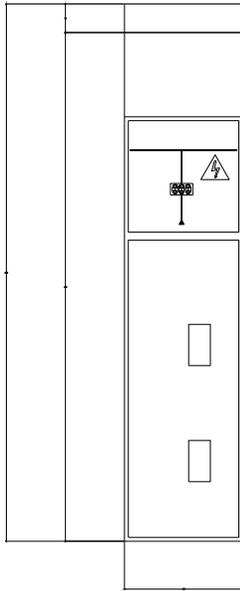


BACK

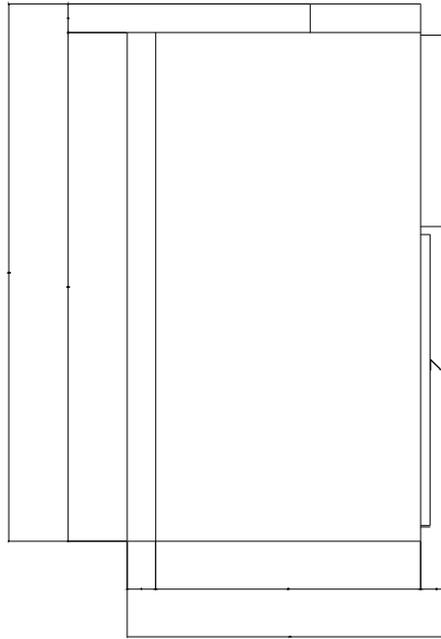
CUSTOMER	PROJECT	FILESPP Armenia MV Rev.01	
	ARCHIVE	DATE 11/05/2017	REVISION
PLANT SPP YEGHEGNADZOR - ARMENIA	DESIGNER	PAGE 4	NEXT 5
		TABLE	

ENCLOSURE FRONT VIEW

FRONT

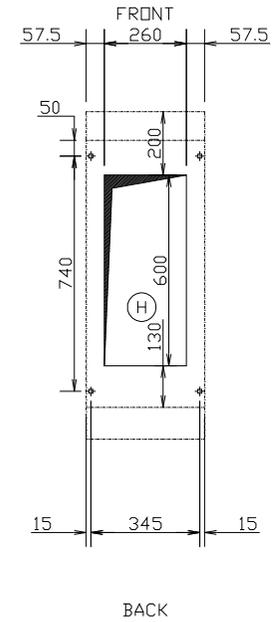


SIDE



SLAB DRILLING

TOP



BACK

	CUSTOMER	PROJECT	FILESPP Armenia MV Rev.01	
		ARCHIVE	DATE 11/05/2017	REVISION
		DESIGNER	PAGE 5	NEXT
PLANT	SPP YEGHEGNADZOR - ARMENIA	TABLE		

