



Abbreviations:	
CT	Current transformer
ext. inv	Extremely inverse (IEC characteristics)
IEC	International Electrotechnical Commission
IEEE	Institute of Electrical and Electronics Engineers
ITS	Internal transformer system
HRC	High Rupturing Capacity (Fuse)
LV	low voltage
MV	medium voltage
N	Neutral conductor
OVRT	Over voltage ride through
PE	Protective earth conductor
PEN	Protective earth / neutral conductor
psig	pound-force per square inch gauge
RMS	Root mean square
TCC	time current curve
WT	wind turbine
PD	product description
Symbols:	
a	Time factor for IEC characteristics
HEX	designation of switches at WIC1 relay
I _{cu}	rated ultimate breaking capacity under short circuit
I _n	rated current
U _n	rated voltage
IEEE C 37.2 device numbers:	
23	over temperature
27	undervoltage
32	Reverse Power
46	reserve phase or phase balance current
47	phase sequence or phase balance voltage
50	instantaneous over current
51	time over current
51N	time over current (neutral / ground)
59	overvoltage
63	pressure switch
78	phase-angle out of step
81	frequency

	power cable
	PE, PEN - cable
	signal cable

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It should be noted that this document is a purely functional representation and does not contain specific requirements for electrical installations.

Health & Safety instructions, execution instructions and installation instructions shall be followed in accordance with the applicable national and international standards. In particular the local network connection conditions must be considered. For inquiries concerning the content of this document, please approach your local Servion contact.

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Title
Sarco, Chile (T.000388)
Protection design
protection devices layout (schematic drawing)

Size A3	SAP Doc.-Number	REV. A
Scale -	Sheet 1 of 1	

Phase	<input checked="" type="checkbox"/> A Basic Analysis	Rev.	Date	Modification	Drawn	Checked	Approved
	B Clarification in progress						
	C For construction						
	D As Built						
		A	31.08.2016	Initial Draft	DennisKlingemann		