Base Load Power Hub (BLPH)

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1 AUXIALIRY CIRCUITS CONSUPTION FOR SWG "SG-100D1"

1.1 TABLE 1 (110VDC FROM UNINTERRUPTIBLE POWER SUPPLY)

POS.	SWITCHGEAR SG-100D1 – CONTINUOS ABSORPTION ON 110VDC SUPPLY			
	DESCRIPTION	CONSUPTION	DEVICE QUANTITY	TOTAL W
1	IR SENSOR TEMPERATURE MONITORING "TR1"	0,4W	7	2,8W
2	EXERTHERM DISPLAY "DP1"	7W	1	7W
3	PROTECTION RELAY (REX640) "FP1"	25W	6	150W
4	UNDERVOLTAGE RELAY -MBU (ON VD4 C.B.)	5W (200W for 100ms)	2	10W
5	OPENING / CLOSING -MB01 /- MBC (ON VD4 C.B.)	5W (200W for 100ms)	2	10W
6	CLOSING SPRING CHARGE MOTOR "MAS" (ON VD4 C.B.)	200W for 5s 500W for 0,2s	2	
7	LOCKING MAGNET -RLE1 (ON VD4 C.B.)	5W	2	10W
8	UNDERVOLTAGE RELAY (ON VSC CONTACTOR.)	5W	4	20W
9	CONTACTOR COMMAND (ON VSC CONTACTOR)	5W (Inrush current 42A for 2ms)	4	20W
10	PARTIAL DISCHARGE MONITORIG SYSTEM "PD1"	35W	1	35W
11	AUXILIARY RELAY "K.."	0.9W	15 (EXTIMATED)	13,5W
12	ETHERNET SWITCH "SWH.A – SWH.B"	19W	2	38W

1. **Total 316W x 1,2 = 380W (continuous load)**
2. **Total 380W + 200W = 580W x 5sec.**
3. **Total 380W + 500W = 880W x 0,2sec. (peak load)**

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1.2 TABLE 2 (230VAC FROM NORMAL POWER SUPPLY)

POS.	SWITCHGEAR SG-100D1 - CONTINUOS ABSORPTION ON 230VAC SUPPLY			
	DESCRIPTION	CONSUPTION	DEVICE QUANTITY	TOTAL W
1	CUBICLE HEATING RESISTOR	150W	7	1050W
2	CUBICLE AUXILIARY LIGHT	8W	7	56W
3	AUXILIARY SOCKET	1000W	-	1000W

1. **Total 1100W x 1,2 = 1320W (max power)**

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2 AUXIALIRY CIRCUITS CONSUPTION FOR SWG "DP-200N1"

2.1 TABLE 1 (110VDC FROM UNINTERRUPTIBLE POWER SUPPLY)

An external auxiliary supply is NOT necessary for this SWG

2.2 TABLE 2 (230VAC FROM NORMAL POWER SUPPLY)

An external auxiliary supply is NOT necessary for this SWG

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3 AUXIALIRY CIRCUITS CONSUPTION FOR SWG "SG-200D2"

3.1 TABLE 3 (230VAC FROM UNINTERRUPTIBLE POWER SUPPLY)

POS.	SWITCHGEAR SG-200D2 - CONTINUOS ABSORPTION ON 230VAC SUPPLY			
	DESCRIPTION	CONSUPTION	DEVICE QUANTITY	TOTAL W
1	ETHERNET SWITCH (SW1)	20W	1	20W
2	POWER SUPPLY 230VAC/24VDC (U1)	15W	1	15W
3	OPENING / CLOSING -YO /-YC (EMAX C.B..)	5W (300W for 70ms)	1	5W
4	AUXILIARY RELAY "K.."	0.9W	5 (EXTIMATED)	4,5W

1. **Total 45W x 1,2 = 55W (max power)**
2. **Total 55W + 300W = 355W x 0,07sec. (peak load)**

3.2 TABLE 2 (230VAC FROM NORMAL POWER SUPPLY)

POS.	SWITCHGEAR SG-200D2 - CONTINUOS ABSORPTION ON 230VAC SUPPLY			
	DESCRIPTION	CONSUPTION	DEVICE QUANTITY	TOTAL W
1	CUBICLE HEATING RESISTOR	150W	1	150W
2	CUBICLE AUXILIARY LIGHT	4W	1	4W
3				

1. **Total 154W x 1,2 = 185W (max power)**

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4 AUXIALIRY CIRCUITS CONSUPTION FOR SWG "SG-200N1"

4.1 TABLE 3 (230VAC FROM UNINTERRUPTIBLE POWER SUPPLY)

POS.	SWITCHGEAR SG-200N1 - CONTINUOS ABSORPTION ON 230VAC SUPPLY			
	DESCRIPTION	CONSUPTION	DEVICE QUANTITY	TOTAL W
1	ETHERNET SWITCH (SW1)	20W	1	20W
2	POWER SUPPLY 230VAC/24VDC (GD1)	180W	1	180W
3	OPENING / CLOSING -YO /-YC (EMAX C.B..)	5W (300W for 70ms)	1	5W
4	AUXILIARY RELAY "K.."	0.9W	5 (EXTIMATED)	4,5W
5	PROTECTION RELAY (REF615) "FP1"	25W	1	25W
6	UNIT TEST YO (EMAX C.B.) "UB1"	5W	1	5W

1. **Total 240W x 1,2 = 290W (max power)**
2. **Total 290W + 300W = 590W x 0,07sec. (peak load)**

4.2 TABLE 2 (230VAC FROM NORMAL POWER SUPPLY)

POS.	SWITCHGEAR SG-200N1 - CONTINUOS ABSORPTION ON 230VAC SUPPLY			
	DESCRIPTION	CONSUPTION	DEVICE QUANTITY	TOTAL W
1	CUBICLE HEATING RESISTOR	100W	7	700W
2	CUBICLE AUXILIARY LIGHT	4W	7	28W
3				

1. **Total 728W x 1,2 = 875W (max power)**

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