DISTRIBUTION E	30ARI	DS &	FEE	DER D	DATA SC	HEDULES						
FEEDER		PROT	ECTION	DATA				FEEDER I	DATA			
Designation	Volts	Туре	Frame	Trip Rating	Туре	Size	Nb of	App. Length	Touching / Spaced/	Flat / Trefoil /	Connected LOAD	Demand LOAD
DP-OPD			Amp.	Amp.		mm ²	Phases	m	Duct Bank	multicore	Kva	Amp / kVA
Incoming From Plant Room	415	MCCB	630	500	XLPE	2 x (4 C 120) + 2 x 70 E	3		touching	multicore	311.6	311 / 214.5
LP-GF	415	MCCB	160	100	XLPE	1 x (4 C, 35) + 1 x 6 E	3	5	touching	multicore	40.2	43 / 29.8
LP-F1 PP-GF	415 415	MCCB MCCB	160 160	100 160	XLPE XLPE	1 x (4 C, 35) + 1 x 6 E 1 x (4 C, 70) + 1 x 35 E		30 41	touching touching	multicore multicore	39.4 70	42 / 29.2 71 / 49.0
PP-F1	415	MCCB	250	200	XLPE	1 x (4 C, 95) + 1 x 50 E		35	touching	multicore	87	87 / 60.1
UPS-OPD (75 KVA) SPARE	415 415	MCCB MCCB	160 160	125 100	XLPE XLPE	1 x (4 C, 35) + 1 x 16 E	3	15	touching	multicore	75	67 / 46.4
SPARE	415	MCCB	160	40	XLPE							
UDP-OPD										-		_
Incoming From UPS	415	MCCB	160	80	XLPE	1 x (4 C 25) + 1 x 16 E	3	5	touching	multicore	51.3	67 / 46.4
UPP-GF	415	МССВ	160	40	XLPE	1 x (4 C, 10) + 1 x 10 E	3	5	touching	multicore	16	21 / 14.4
UPP-F1	415	MCCB	160	50	XLPE	1 x (4 C, 16) + 1 x 16 E		30	touching	multicore	23	30 / 20.7
ULP-GF UPP-F1.D	415 415	MCCB MCCB	160 160	32 40	XLPE XLPE	1 x (4 C, 6) + 1 x 6 E 1 x (4 C, 10) + 1 x 10 E	_	10 30	touching	multicore multicore	9.4	4 / 2.9 12 / 8.4
SPARE	415	MCCB	160	40	XLPE	. x (+ 0, 10) x 10 L	Ť	00	todoming		0.4	, 0.4

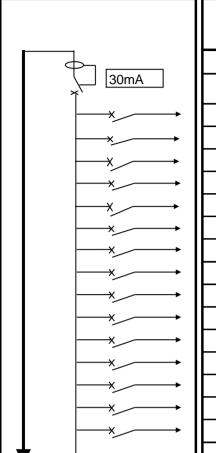
Building: SOH Hospital Location: Ground Floor Voltage: 415/240V. Frequency: 50Hz Panel Ref.: LP-GF
Panel Type: Recessed Mounted

		Circuit	Beaker				Load (VA	\	
	Circuit	Poles	Rate	Control	Wires				Designation of Load
	Ref	(Nb)	(A)		(mm2)	R	Υ	В	
	M.S.	4	100		35				MD: Motion Detector
									LR: Latching Relay
		4	32						
300mA		4	32						
* '	1.4	45.11	40			100.0			
*	L1	1P+N	16	СТ	2.5	198.0			Corridor
	L2	1P+N	16	СТ	2.5		118.8		Reception& waiting area/Cariology
	L3	1P+N	16	СТ	2.5			138.6	Reception& waiting area/Neuro-Resp
	L4	1P+N	16	СТ	2.5	118.8			Corridor
*	L5	1P+N	16	СТ	2.5		189.0		Waiting Area
×	L6	1P+N	16	СТ	2.5			409.0	Entrance
×	L7	1P+N	16		2.5	158.4			Public Pharmacy/Gift shop
×	L8	1P+N	16		2.5		199.8		Clean utility
<u> </u>	L9	1P+N	16		2.5			201.6	Dirty utility/Staff toilets(M)&(F)
×	L10	1P+N	16		2.5	166.8			Gen.consult R.(1)&(2)/Equip.Store
<u> </u>	L11	1P+N	16		2.5		214.8		Gen. consult R.(4)&(5)Elec.R./Server R.
	L12	1P+N	16		2.5			178.2	Cardiac Consut. Rooms
<u> </u>		1P+N	16						Spare
×		1P+N	16						Spare
		1P+N	16						Spare
		4	32						
∑ 300mA									
	L13	1P+N	16		2.5	175			Cardiac Consut. Rooms
	L14	1P+N	16		2.5		178.2		Consultation R. Neurology/Egg/Emg
×	L15	1P+N	16		2.5		1/0.2	135.6	Pulmonary Consult. Examination Rooms
	L16	1P+N	16		2.5	324.6			
	L17	1P+N	16			0	285.4		Gymnasum Hydrotherapy Pool
	L18	1P+N	16		2.5			201.6	
	L19	1P+N	16		2.5	289		201.0	Toilets(M)&(F)
	L20	1P+N	16		2.5	203	000.0		Staff Lounge /Changing &Shower(M)&(F)/Lockers
	LZU	1P+N	16		2.5		266.2		Utility/Waiting Area/Toilets(M)&(F)
					2.5				Spare
		1P+N	16		2.5				Spare
		1P+N	16		-		-		Spare
									I

Building: SOH Hospital Location: Ground Floor Voltage: 415/240V. Frequency: 50Hz Panel Ref.: LP-GF
Panel Type: Recessed Mounted

				Beaker				Load (VA)	
		Circuit	Poles	Rate	Control	Wires		Y		Designation of Load
lr	——————————————————————————————————————	Ref	(Nb)	(A)		(mm2)	R	Y	В	
	30mA		4	32						
	* [0011#1									
	×	S1	1P+N	20		4	720			Corridor
	×	S2	1P+N	20		4		1260		Reception& waiting area/Neuro-Resp
	X	S3	1P+N	20		4			990	Egg/Emg
	×	S4	1P+N	20		4	810			Consultation R. Neurology
	\longrightarrow	S5	1P+N	20		4		810		Consultation R. Neurology
	×	S6	1P+N	20		4			990	Pulmonary Consult. Examination Room
		S7	1P+N	20		4	990			Pulmonary Consult. Examination Room
		S8	1P+N	20		4		1620		Echocardiography ultrasound / Holter monit.
	×	S9	1P+N	20		4			990	Cardiac Consut. Exam. Room / Ecg (2)
	×	S10	1P+N	20		4	990			Cardiac Consut. Exam. Room / Ecg (1)
	×	S11	1P+N	20		4		990		Cardiac Consut. Room / Stress Test
	×	S12	1P+N	20		4			1260	Reception& waiting area/Cariology
	×		1P+N	20						SPARE
	×		1P+N	20						SPARE
			4	32						
	30mA									
	×	S13	1P+N	20		4	990			General consult Room 5
	×	S14	1P+N	20		4		990		General consult Room 4
	\longrightarrow	S15	1P+N	20		4			900	Corridor / Equip.Store
	×	S16	1P+N	20		4	990			General consult Room 2
	\longrightarrow	S17	1P+N	20		4		990		General consult Room 1
	×	S18	1P+N	20		4			540	Supervisor's Office
	×	S19	1P+N	20		4	1440			Clean Utility/ Dirty Utility/Staff Tlts
	×	S20	1P+N	20		4		900		Reception & cas./ Archive store
	×	S21	1P+N	20		4			900	Entrance / Gift Shop
	×	S22	1P+N	20		4	1440			Waiting Area
	×	S23	1P+N	20		4		810		Waiting Area VIP / Utility
	×	S24	1P+N	20		4			630	Pantry / Lounge
	×		1P+N	20						SPARE
	×		1P+N	20						SPARE
		ī	1		L	L			1	

Building: SOH Hospital Location: Ground Floor Voltage: 415/240V. Frequency: 50Hz Panel Ref.: LP-GF
Panel Type: Recessed Mounted



Circuit	Circuit Poles	Beaker Rate	Control	Wires		Load (VA))
Ref	(Nb)	(A)	Control	(mm2)	R	Υ	В
	4	32					
S25	1P+N	20		4	500		
S26	1P+N	20		4		1080	
S27	1P+N	20		4			500
S28	1P+N	20		4	540		
S29	1P+N	20		4		900	
S30	1P+N	20		4			720
S31	1P+N	20		4	900		
S32	1P+N	20		4		900	
S33	1P+N	20		4			900
S34	1P+N	20		4	500		
S35	1P+N	20		4		500	
S36	1P+N	20		4			720
ZZ	1P+N	20		4	500		
S35	1P+N	20		4		500	
S36	1P+N	20		4			720

Designation of Load
Pantry / Lounge (18.1)
Lockers / Staff Lounge
Staff Lounge (18.1)
Staff Shower/Changing
Hydrotherapy Pool
Treatmenet Romm (2) & (3)
Treatmenet Romm (1) / Clean Utility
Gymnasum
Gymnasum
Gymnasum (32)
Gymnasum (33.6)
Electrical R./ Server Room
Gymnasum (32)
Gymnasum (33.6)
Electrical R./ Server Room

Breaking Capacity: 6KA	Circuit I	Breaker (A)	Connected Load (VA)					
	Frame	Rate	R	Υ	В	Total		
Lighting			1431	1452	1265	4147.6		
Socket			11310	12250	10760	34320		
Mechanical								
Misc / Kitchen								
Main Switch		100	12741	13702	12025	38468		

Diversity Factor	Requird Load (VA)
1	4148
0.7	24024
	28172

Building: SOH Hospital Location: First Floor Voltage: 415/240V. Frequency: 50Hz Panel Ref.: LP-F1

Panel Type: Recessed Mounted

		Circuit	Beaker				l = = = (\ / \ / \)	\	
	Circuit	Poles	Rate	Control	Wires		Load (VA		Designation of Load
	Ref	(Nb)	(A)		(mm2)	R	Υ	В	2 co.ig. ianon cr. 2 caa
	M.S.	4	100		35				MD: Motion Detector
									LR: Latching Relay
									PC: Photo Cell
I									
300mA		4	32						
* 300111A									
	L1	1P+N	16		2.5	163.2			Reception & Control
	L2	1P+N	16		2.5		198.0		Corridor
	L3	1P+N	16		2.5			217.8	Corridor
	L4	1P+N	16		2.5	217.8			Corridor
	L5	1P+N	16		2.5		195.0		Waiting area
	L6	1P+N	16		2.5			240.8	Pantry/staff Lounge/Clean Utility/Store
	L7	1P+N	16		2.5	201.6			Toilets(M)&(F)
	L8	1P+N	16		2.5		152.4		Waiting area (VIP)/Gen. consult.
	L9	1P+N	16				152.4	152.4	
	L10	1P+N	16		2.5	158.4		102.4	General Consul.Examination Rooms
	L10	1P+N	16		2.5	150.4			Ophthalmology Consult.
		_	16		2.5		118.8	400.0	Ophthalmology Procedure/Consult.
	L12	1P+N			2.5			138.6	Xtray/Dental Consult.
		1P+N	16						Spare
		1P+N	16						Spare
		1P+N	16						Spare
<u> </u>									
		4	32						
\ \ \300mA									
×	L13	1P+N	16		2.5	152.4			Obstetrics&Gynaecology Consult.
×	L14	1P+N	16		2.5		277.2		Dental Lab. Consultt.
	L15	1P+N	16		2.5			132.6	Obstetrics&Gynaecology Consult.
	L16	1P+N	16		2.5	152.4			Nephrology & Urology Consult.
▎ <mark>┃</mark>	L17	1P+N	16		2.5		152.4		Urodynamics
│ ┃	L18	1P+N	16		2.5			178.2	Gen. Consult./Equip.Store/Drug Store
	L19	1P+N	16			178.2			
│	L20	1P+N	16		2.5	170.2	007.0		Ear, Nose, Throat Consult.
	L20	1P+N	16		2.5		297.0	178.2	Endocrinology Clinic
	LZ I	1P+N	16		2.5			170.2	Gen. Consult./Ear,Nose, Throat Consult.
					2.5				Spare
		1P+N	16		2.5				Spare
		1P+N	16						Spare
<u> </u>					1				II

Building: SOH Hospital

Location: First Floor

Voltage: 415/240V. Frequency: 50Hz Panel Ref.: LP-F1

Panel Type: Recessed Mounted

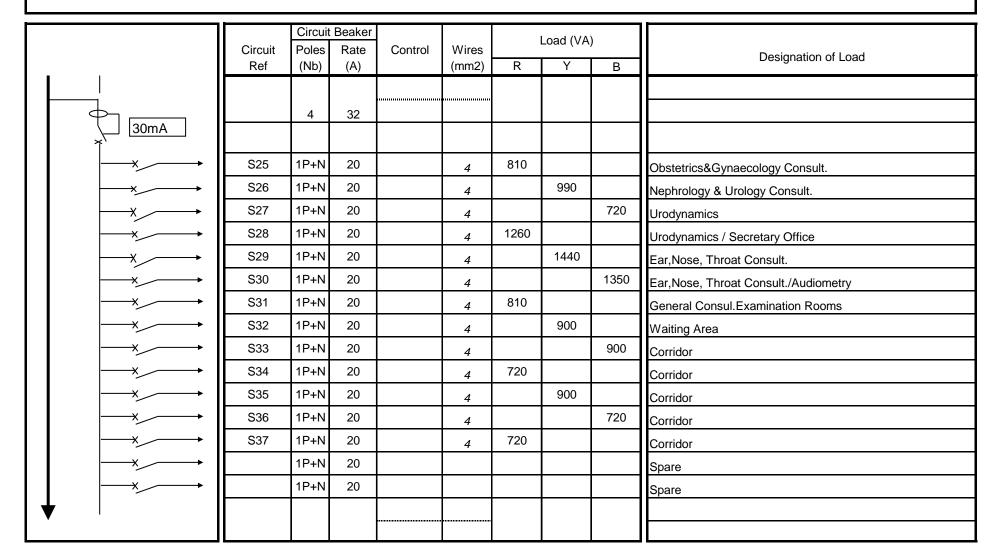
	Circuit	Circuit Poles	Beaker Rate	Control	Wires		Load (VA)	
	Ref	(Nb)	(A)	Control	(mm2)	R	Υ	В	Designation of Load
		4	32						
30mA		7	<u> </u>						
	S1	1P+N	20		4	900			Store/Dirty Utility/Toilets
×	S2	1P+N	20		4		720		Reception & Control
X I	S3	1P+N	20		4			1170	Pantry/staff Lounge/Clean Utility
	S4	1P+N	20		4	180			Pantry
	S5	1P+N	20		4		180		Pantry
×	S6	1P+N	20		4			810	General Consul.Examination Room
×	S7	1P+N	20		4	630			Waiting area (VIP)
	S8	1P+N	20		4		1440		General Consul.Examination Rooms
×	S9	1P+N	20		4			900	Xray / Dental Consult.Examination Room
×	S10	1P+N	20		4	540			Dental Consult.Examination Room
	S11	1P+N	20		4		1080		Dental Consult.Examination Room
	S12	1P+N	20		4			1080	Dental Consult.Examination Room
		1P+N	20						Spare
		1P+N	20						Spare
		1P+N	20						Spare
		4	32						
30mA			-						
	S13	1P+N	20		4	900			Dental Lab./ Equip. Store
×	S14	1P+N	20		4		720		General Consul.Examination Room
×	S15	1P+N	20		4			1080	Secretary Office/Hospital Nutritionist
× [S16	1P+N	20		4	1080			Drug Store / Endocrinology Clinic 1
	S17	1P+N	20		4		1260		Endocrinology Clinic 2&3
	S18	1P+N	20		4			900	Ophthalmology Consult.
	S19	1P+N	20		4	900			Ophthalmology Consult.
	S20	1P+N	20		4		1260		Ophthalmology Procedure/Optometry Preparation
	S21	1P+N	20		4			810	Obstetrics&Gynaecology Consult.
	S22	1P+N	20		4	1710			Ophthalmology Consult./Obstetrics&Gynaecology Consult.
	S23	1P+N	20		4		810		Obstetrics&Gynaecology Consult.
	S24	1P+N	20		4			810	Nephrology & Urology Consult.
		1P+N	20						Spare
		1P+N	20						Spare
		1P+N	20						Spare

Building: SOH Hospital Location: First Floor

Voltage: 415/240V. Frequency: 50Hz

Panel Ref.: LP-F1

Panel Type: Recessed Mounted



Breaking Capacity: 6KA	Circuit E	Breaker (A)	Co	nnected	Load (V	/A)	Diversity Factor	Requird Load (VA)	
	Frame	Rate	R	Υ	В	Total		·	
Lighting			1224	1391	1239	3853.4	1	3853	
Socket			11160	11700	11250	34110	0.7	23877	
Mechanical						0			
Misc / Kitchen						0			
Main Switch		100	12384	13091	12489	37963		27730	

Building: SOH Hospital Location: Ground Floor Voltage: 415/240V. Frequency: 50Hz Panel Ref.: PP-GF
Panel Type: Recessed Mounted

		Circuit	Beaker				Lood (\/A	\	
	Circuit	Poles	Rate	Control	Wires		Load (VA)		Designation of Load
	Ref	(Nb)	(A)		(mm2)	R	Y	В	
	M.S.	4	160		70				MD: Motion Detector
									LR: Latching Relay
		4	32						
30mA		-	52						
	5.44	45 N				500			
	M1	1P+N	20		4	500	500		EWH (20L) / Dirty Utility
	M2	1P+N	20		4		500	4500	EWH (20L) / Dirty Utility
	M3	1P+N	20		4	4500		1500	EWH (80L) / Hydrotherapy Pool Toilets
	M4	1P+N	20		4	1500	4500		EWH (80L) / Hydrotherapy Pool Toilets
	M5	1P+N	20		4		1500		EWH (80L) / Staff Shower Changing
	M6	1P+N	20		4			500	EWH (20L) / Shower
		1P+N	20						SPARE
*		1P+N	20						SPARE
×		1P+N	20						SPARE
*	M8	1P+N	20		4		250		EF-1 / Waiting Area Toilets
×	M9	1P+N	20		4			250	EF-2 / Waiting Area Toilets
×	M10	1P+N	20		4	250			EF-1 / Hydrotherapy Pool
×	M11	1P+N	20		4		1750		A/C Waiting Area
×	M12	1P+N	20		4			1750	A/C Waiting Area
×	M13	1P+N	20		4	1500			A/C Waiting Area VIP
×	M14	1P+N	20		4		2500		A/C Hydrotherapy Pool
×	M15	1P+N	20		4			2500	A/C Hydrotherapy Pool
×	M16	1P+N	20		4	1500			A/C Staff Lounge
	M17	1P+N	20		4		1500		A/C Treatment Room (2)
	M18	1P+N	20		4			1500	A/C Treatment Room (3)
×	M19	1P+N	20		4	1500			A/C Treatment Room (1)
×	M20	1P+N	20		4		1750		A/C Gymnasum
	M21	1P+N	20		4			1750	A/C Gymnasum
	M22	1P+N	20		4	1750			A/C Gymnasum
×	M23	1P+N	20		4		1500		A/C Gymnasum Office
×	M24	1P+N	20		4			1750	A/C Consultation R. Neurology
×	M25	1P+N	20		4	1500			A/C Consultation R. Neurology
×	M26	1P+N	20		4		1500		A/C EEG/EMG
×	M27	1P+N	20		4			1750	A/C Pulmonary Consult. Examination Room
× /	M28	1P+N	20		4	1750			A/C Pulmonary Consult. Examination Room
× /	M29	1P+N	20		4		1750		A/C Reception& waiting area/Neuro-Resp
×	M30	1P+N	20		4			1750	A/C Reception& waiting area/Neuro-Resp

Building: SOH Hospital Location: Ground Floor Voltage: 415/240V. Frequency: 50Hz Panel Ref.: PP-GF
Panel Type: Recessed Mounted

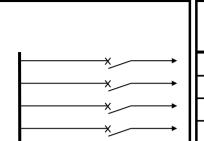
	Circuit	Circuit Poles	Beaker Rate	Control	Wires		Load (VA)	
	Ref	(Nb)	(A)		(mm2)	R	Υ	В	Designation of Load
X	M31	1P+N	20		4	1750			A/C Cardiac Consut. Exam. Room / Ecg (2)
×	M32	1P+N	20		4		1500		A/C Echocardiography ultrasound
X	M33	1P+N	20		4			1500	A/C Holter Monitoring
X	M34	1P+N	20		4	1750			A/C Reception& waiting area/Cariology
×	M35	1P+N	20		4		1750		A/C Cardiac Consut. Room / Stress Test
×	M36	1P+N	20		4			1750	A/C Cardiac Consut. Exam. Room / Ecg (1)
×	M37	1P+N	20		4	1500			A/C General consult Room 4
×	M38	1P+N	20		4		1500		A/C General consult Room 5
×	M39	1P+N	20		4			1500	A/C General consult Room 2
×	M40	1P+N	20		4	1500			A/C General consult Room 1
×	M41	1P+N	20		4		1500		A/C Pantry / Lounge
×	M42	1P+N	20		4			1500	A/C Clean Utility
×	M43	1P+N	20		4	1750			A/C Reception & Cas
×	M44	1P+N	20		4		1500		A/C Supervisor's Office
×	M45	1P+N	20		4			2500	A/C Public Pharmacy
×	M46	1P+N	20		4	1750			A/C Electrical Room
X	M47	1P+N	20		4		1750		A/C Server Room
×		1P+N	20						SPARE
×		1P+N	20						SPARE
×		1P+N	20						SPARE
 ▼ ×		1P+N	20						SPARE

Breaking Capacity	6KA	Circuit E	Breaker (A)	C	onnected	l Load (V	'A)	Diversity Factor	Requird Load (VA)
		Frame	Rate	R	Υ	В	Total	Í	, , ,
Lighting									
Socket									
Mechanical				21750	24000	23750	69500	0.7	48650
Misc / Kitcher)								
Main Switch			160	21750	24000	23750	69500		48650

Building: SOH Hospital Location: First Floor Voltage: 415/240V. Frequency: 50Hz Panel Ref.: PP-F1
Panel Type: Recessed Mounted

	Circuit Beaker Load (VA)								
	Circuit	Poles	Rate	Control	Wires				Designation of Load
	Ref	(Nb)	(A)		(mm2)	R	Y	В	
	M.S.	4	200		95				MD: Motion Detector
									LR: Latching Relay
		4	32						
30mA		_	J2						
1 1 1									
	M1	1P+N	20		4	500			EWH (20L)
×	M2	1P+N	20		4		500		EWH (20L)
×	M3	1P+N	20		4			500	EWH (20L) / Toilets
X	M4	1P+N	20		4		500		EWH (20L) / Toilets
	M5	1P+N	20		4			500	EWH (20L) / Toilets
×	M6	1P+N	20		4	500			EWH (20L)
	M7	1P+N	20		4		500		EWH (20L) / Toilets
×	M8	1P+N	20		4			500	EWH (20L) / Toilets
	M9	1P+N	20		4	500			EWH (20L) / Toilets
	M64	1P+N	20		4		500		EWH (20L)
×		1P+N	20						SPARE
×		1P+N	20						SPARE
×	M10	1P+N	20		4		250		EF-1 / Corridor
×	M11	1P+N	20		4			250	EF-1 / Toilets
×	M12	1P+N	20		4	250			EF-1 / Corridor
×	M13	1P+N	20		4		250		EF-1 / Corridor
×	M14	1P+N	20		4	-		2500	A/C Waiting Area
×	M15	1P+N	20		4	2500			A/C Waiting Area
×	M16	1P+N	20		4		1750		A/C Ophthalmology Consult.
×	M17	1P+N	20		4			1500	A/C Ophthalmology Consult.
×	M18	1P+N	20		4	1500			A/C Viisual Field Testing
×	M19	1P+N	20		4		1750		A/C Ophthalmology Consult.
×	M20	1P+N	20		4			1500	A/C Optometry Preparation
×	M21	1P+N	20		4	1500			A/C Optometry Preparation
×	M22	1P+N	20		4		1500		A/C Ophthalmology Procedure
×	M23	1P+N	20		4			1750	A/C Obstetrics&Gynaecology Consult.
×	M24	1P+N	20		4	1750			A/C Obstetrics&Gynaecology Consult. A/C Obstetrics&Gynaecology Consult.
×	M25	1P+N	20				1750		A/C Obstetrics&Gynaecology Consult.
×	M26	1P+N	20		4			1750	A/C Obstetrics&Gynaecology Consult. A/C Obstetrics&Gynaecology Consult.
×	M27	1P+N	20			1750			
×	M28	1P+N	20		4	.,,,,,	1750		A/C Nephrology & Urology Consult.
×	M29	1P+N	20		4		1700	1750	A/C Nephrology & Urology Consult.
×	M30	1P+N	20		4	1750		1130	A/C Urodynamics
×	M31	1P+N	20		4	1730	1750		A/C Urodynamics
		1P+N			4		1/50	1750	A/C Secretary Office
	M32	1	20		4	4750		1750	A/C Ear,Nose, Throat Consult.
	M33	1P+N	20		4	1750	4750		A/C Ear,Nose, Throat Consult.
	M34	1P+N	20		4		1750	4===	A/C General Consul.Examination Room
	M35	1P+N	20		4			1750	A/C Ear,Nose, Throat Consult.

Building: SOH Hospital Location: First Floor Voltage: 415/240V. Frequency: 50Hz Panel Ref.: PP-F1
Panel Type: Recessed Mounted



	Circuit	Beaker				Load (VA	١	11
Circuit	Poles	Rate	Control	Wires		Luau (VA)	
Ref	(Nb)	(A)		(mm2)	R	Υ	В	
M36	1P+N	20		4	1750			
M37	1P+N	20		4		1500		
M38	1P+N	20		4			1500	
M39	1P+N	20		4	1500			

Designation of Load
A/C Audiometry
A/C Endocrinology Clinic 3
A/C Endocrinology Clinic 2
A/C Secretary Office Endocrinology

Building: SOH Hospital Location: First Floor Voltage: 415/240V. Frequency: 50Hz Panel Ref.: PP-F1
Panel Type: Recessed Mounted

	Circuit	Circuit Poles	Beaker Rate	Control	Wires		Load (VA)		
	Ref	(Nb)	(A)	Control	(mm2)	R	Υ	В	Designation of Load
×	M40	1P+N	20		4		1500		A/C Hospital Nutritionist
×	M41	1P+N	20		4			1500	A/C Endocrinology Clinic 1
*	M42	1P+N	20		4	1500			A/C General Consul.Examination Room
*	M43	1P+N	20		4		1500		A/C Equipment Store
*	M44	1P+N	20		4			1500	A/C Drug Store
*	M45	1P+N	20		4	1750			A/C Dental Consult.Examination Room
*	M46	1P+N	20		4		1500		A/C Dental Consult.Examination Room
*	M47	1P+N	20		4			1750	A/C Dental Lab.
×	M48	1P+N	20		4	1750			A/C Dental Consult.Examination Room
×	M49	1P+N	20		4		1750		A/C Dental Consult.Examination Room
×	M50	1P+N	20		4			1500	A/C Panoramic Xray
×	M51	1P+N	20		4	1750			A/C Dental Consult.Examination Room
×	M52	1P+N	20		4		1750		A/C Dental Consult.Examination Room
×	M53	1P+N	20		4			1750	A/C General Consul.Examination Room
×	M54	1P+N	20		4	1750			A/C General Consul.Examination Room
×	M55	1P+N	20		4		1750		A/C Waiting Area VIP
×	M56	1P+N	20		4			1750	A/C General Consul.Examination Room
×	M57	1P+N	20		4	1500			A/C Staff Lounge
×	M58	1P+N	20		4		1500		A/C Pantry
*	M59	1P+N	20		4			1500	A/C Clean Utility
×	M60	1P+N	20		4	2500			A/C Records
×	M61,62,63	3P+N	20		4	500	500	500	Booster Pump
×		1P+N	20		4				SPARE
×		1P+N	20		4				SPARE
 		1P+N	20		4				SPARE

Breaking Capacity: 6KA	Circuit B	reaker (A)	C	onnected	Load (V	'A)	Diversity Factor	Requird Load (VA)
	Frame	Rate	R	Υ	В	Total	Divorony r dotor	rtoquiia Loda (vrt)
Lighting								
Socket								
Mechanical			30500	27750	29250	87500	0.7	6125
Misc / Kitchen								
Main Switch		200	30500	27750	29250	87500		6125

Building: SOH Hospital Location: Ground Floor Voltage: 415/240V. Frequency: 50Hz Panel Ref.: UPP-GF
Panel Type: Recessed Mounted

		_	Beaker				Load (VA)		
	Circuit	Poles	Rate	Control	Wires				Designation of Load
	Ref	(Nb)	(A)		(mm2)	R	Y	В	
	M.S.	4	40		10				MD: Motion Detector
									LR: Latching Relay
 									
30mA		4	25						
Y SOUTH									
	S1	1P+N	20		4	1350			Reception&Cas/Supervisor's Office
×	S2	1P+N	20		4		720		General consult Room 2
×	S3	1P+N	20		4			990	General consult Room 1
×	S4	1P+N	20		4	720			General consult Room 5
	S5	1P+N	20		4		720		General consult Room 4
× —	S6	1P+N	20					1260	
	S7	1P+N	20		4	180		50	Cardiac Consut. Exam. Room / Ecg (1) & Stress Test Cardiac Consut. Exam. Room / Stress Test
	S8	1P+N	20		4	100	180		
	S9	1P+N	20		4		100	180	Cardiac Consut. Exam. Room / Stress Test
		_			4	400		160	Cardiac Consut. Exam. Room / Stress Test
	S10	1P+N	20		4	180			Cardiac Consut. Exam. Room / Stress Test
	S11	1P+N	20		4		540		Reception& waiting area/Cariology
×	S12	1P+N	20		4			720	Holter Monitoring
		1P+N	20						SPARE
×		1P+N	20						SPARE
×		1P+N	20						SPARE
		4	25						
30mA									
	S13	1P+N	20			720			Fabrasadia was busaka a a wad
	S14	1P+N	20		4	720	540		Echocardiography ultrasound
		1P+N	20		4		340	540	Cardiac Consut. Exam. Room / Ecg (2)
	S15				4	700		540	Reception& waiting area/Neuro-Resp
	S16	1P+N	20		4	720			Pulmonary Consult. Examination Room
X	S17	1P+N	20		4		720		Pulmonary Consult. Examination Room
	S18	1P+N	20		4			720	Consultation R. Neurology
	S19	1P+N	20		4	720			Consultation R. Neurology
	S20	1P+N	20		4		720		EEG/EMG
	S21	1P+N	20		4			1350	Gymnasum
	S22	1P+N	20		4	750			Server Room
×	S23	1P+N	20		4		750		Server Room
		1P+N	20						SPARE
		1P+N	20						SPARE
×		1P+N	20						SPARE
									-
'									
<u> </u>								•	

Breaking Capacity: 6KA	Circuit E	Breaker (A)	Co	onnected	Load (V	'A)	Diversity Factor	Requird Load (VA)
	Frame	Rate	R	Υ	В	Total	,	, ,
Lighting								
Socket			5340	4890	5760	15990	0.9	14391
Mechanical								

Building: SOH Hospital Location: Ground Floor Voltage: 415/240V. Frequency: 50Hz Panel Ref.: UPP-GF
Panel Type: Recessed Mounted

14391

		Circuit	Circuit Poles	it Beaker Rate Control		Wires		Load (VA)	Designation of Load	
		Ref	(Nb)	(A)		(mm2)	R	Υ	В	Designation of Load	
ſ	Misc / Kitchen										
	Main Switch		4	40		5340	4890	5760	15990		

Building: SOH Hospital Location: First Floor

Breaking Capacity: 6KA

Lighting Socket

Mechanical Misc / Kitchen Circuit Breaker (A)

Frame

Rate

Voltage: 415/240V. Frequency: 50Hz Panel Ref.: UPP-F1
Panel Type: Recessed Mounted

		Circuit	Beaker				Load (VA)	
	Circuit	Poles	Rate	Control	Wires				Designation of Load
	Ref	(Nb)	(A)		(mm2)	R	Y	В	
	M.S.	4	50		16				MD: Motion Detector
									LR: Latching Relay
			1						
30mA		4	32						
Y SOITH			i i						
$ \hspace{.1cm} \hspace{.1cm} \hspace{.1cm} \times \hspace{.1cm} \hspace{.1cm} $	S1	1P+N	20		4	1080			Reception & Control
	S2	1P+N	20		4		1080		General Consul.Examination Rooms
×	S3	1P+N	20		4			810	General Consul.Examination Room/Xray
×	S4	1P+N	20		4	810			Dental Consult.Examination Room
	S5	1P+N	20		4		810		Dental Consult.Examination Room
	S6	1P+N	20		4			810	Dental Consult.Examination Room
	S7	1P+N	20		4	810			Dental Consult.Examination Room
	S8	1P+N	20		4		810		Dental Consult.Examination Room
	S9	1P+N	20				0.0	810	
	S10	1P+N	20		4	720		010	Dental Consult.Examination Room
	S11	1P+N	20		4	720	1530		General Consul.Examination Room
					4		1530	540	Drug Store / Hospital Nutritionist / Secretary Office
	S12	1P+N	20		4			540	Endocrinology Clinic 1
		1P+N	20						SPARE
		1P+N	20						SPARE
×		1P+N	20						SPARE
		4	32						
30mA									
	S13	1P+N	20			720			Endocrinology Clinic 2
	S14	1P+N	20		4	. 20	720		
	S15	1P+N	20		4		720	1080	Endocrinology Clinic 3
		1P+N	20		4	1080		1080	Ophthalmology Consult.Rooms
	S16	_			4	1080	4000		Ophthalmology Consult./ Ophthalmology Procedure
	S17	1P+N	20		4		1080		Obstetrics&Gynaecology Consult.
	S18	1P+N	20		4			990	Obstetrics&Gynaecology Consult.
	S19	1P+N	20		4	720			Nephrology & Urology Consult.
×	S20	1P+N	20		4		1080		Obstetrics&Gynaecology / Nephrology & Urology Consult.
	S21	1P+N	20		4			1080	Urodynamics
× L	S22	1P+N	20		4	720			Ear,Nose, Throat Consult.
	S23	1P+N	20		4		1260		Ear,Nose, Throat Consult./ Secretary Office
	S24	1P+N	20		4			1170	Ear,Nose, Throat Consult./Audiometry
	S25	1P+N	20		4	720			General Consul.Examination Room
		1P+N	20						SPARE
		1P+N	20						SPARE
		1P+N	20						SPARE
♥ ' ´			, ,	 	ļ		I		O1 / 11 \L
			' l		Ì				

R

7380

Connected Load (VA)

Υ

8370

В

7290

Total

23040

Diversity Factor

0.9

Requird Load (VA)

20736

Building: SOH Hospital Location: First Floor Voltage: 415/240V. Frequency: 50Hz Panel Ref.: UPP-F1
Panel Type: Recessed Mounted

		Circuit	Beaker				Lood (\/A)		
	Circuit	Poles	Rate	Control	Wires	Load (VA))	
	Ref	(Nb)	(A)		(mm2)	R	Y	В	
Main Switch		5	50		7380	8370	7290	23040	

Designation of Load _______20736

Building: SOH Hospital Location: Ground Floor Voltage: 415/240V. Frequency: 50Hz Panel Ref.: ULP-GF
Panel Type: Recessed Mounted

		Circuit	Beaker			Load (VA)		١		
	Circuit	Poles	Rate	Control	Wires				Designation of Load	
	Ref	(Nb)	(A)		(mm2)	R	Υ	В		
	M.S.	4	32		6				MD: Motion Detector	
									LR: Latching Relay	
300mA		4	20							
*\										
<u> </u>	U1	1P+N	10	СТ	1.5	219.6			Ground Floor	
	U2	1P+N	10	СТ	1.5		203.2		Ground Floor	
×	U3	1P+N	10	СТ	1.5			163.2	Ground Floor	
×	U4	1P+N	10	СТ	1.5	243.0			Ground Floor	
*	U5	1P+N	10	СТ	1.5		138.6		Ground Floor	
	U6	1P+N	10	СТ	1.5			158.4	Ground Floor	
	U7	1P+N	10		1.5	132.6			Ground Floor	
	U8	1P+N	10		1.5		135.6		Ground Floor	
	U9	1P+N	10		1.5			168.0	Ground Floor	
×		1P+N	10		1.5	0.0			Spare	
×		1P+N	10		1.5		0.0		Spare	
<u> </u>		1P+N	10		1.5		0.0	0.0	Spare	
					1.0				opare	
		4	20							
300mA		-	20							
 										
	U10	1P+N	10		1.5	79			First Floor	
	U11	1P+N	10		1.5		193.8		First Floor	
×	U12	1P+N	10		1.5			143.4	First Floor	
×	U13	1P+N	10		1.5	158			First Floor	
	U14	1P+N	10		1.5		99		First Floor	
	U15	1P+N	10		1.5			99	First Floor	
×	U16	1P+N	10		1.5	139			First Floor	
	U17	1P+N	10		1.5		118.8		First Floor	
	U18	1P+N	10		1.5			118.8	First Floor	
	U19	1P+N	10		1.5	139			First Floor	
	U20	1P+N	10		-		99		First Floor	
	U21	1P+N	10		-			0	Spare	
♦										
'										

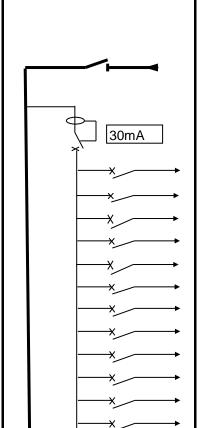
Breaking Capacity: 6KA	ing Capacity: 6KA Circuit Breaker (A) Connected Load (VA)				/A)	Diversity Factor	Requird Load (VA)		
	Frame	Rate		R	Υ	В	Total	·	, ,
Lighting				1110	988	851	2948.8	1	2949
Socket							0	0.7	0
Mechanical									
Misc / Kitchen									
Main Switch		32		1110	988	851	2948.8		2949

Building: SOH Hospital Location: First Floor Voltage: 415/240V. Frequency: 50Hz Panel Ref.: UPP-F1.D
Panel Type: Recessed Mounted

Total

9370

9370



Circuit	Circuit Poles	Beaker Rate	Control	Wires	Load (VA)			
Ref	(Nb)	(A)	CONTROL	(mm2)	R	Υ	В	
M.S.	4	40		10				
	4	32						
S1	1P+N	25		6	4000			
S2	1P+N	20		4		500		
S3	1P+N	20		4			500	
S4	1P+N	20		4		1000		
S5	1P+N	20		4		400		
S6	1P+N	20		4			800	
S7	1P+N	20		4		750		
S8	1P+N	20		4		420		
S9	1P+N	20		4			1000	
	1P+N	20						
	1P+N	20						
	1P+N	20						

	Designation of Load							
	MD: Motion Detector							
	LR: Latching Relay							
1	Dental Lab (Machine 38 & 39)							
l	Dental Lab (Machine 41, 42 & 43)							
l	Dental Lab (Machine 46)							
l	Dental Lab (Machine 44,45 & 47)							
l	Dental Lab (Machine 55)							
l	Dental Lab (Machine 50, 51 & 52)							
l	Dental Lab (Machine 48 & 49)							
l	Dental Lab (Machine 53)							
	Dental Lab (Machine 54)							
l	SPARE							
l	SPARE							
I	SPARE							

Breaking Capacity: 6KA	Circuit E	Breaker (A)	Connected Load (VA)			
	Frame	Rate	R	Υ	В	To
Lighting						
Socket			4000	3070	2300	93
Mechanical						
Misc / Kitchen						
Main Switch		40	4000	3070	2300	93

Diversity Factor	Requird Load (VA)
0.9	8433
	8433