

1 SCHEDULE OF LOADS (PART 5 OF 7)

EE-43E

DISTRIBUTION PANEL "DP12" (EXISTING) MOUNTING: NEMA 1, SURFACE MOUNTED WITH GRAY POWDER COATED FINISH WITH MULTI-TERMINAL BLOCK FOR SOLID GROUND AND NEUTRAL BUS.

LOAD NO.	LOAD DESCRIPTION	VOLT	AMPERE	PHASE	WIRE SIZE	CONDUCTOR	PROTECTION	NUMBER & SIZE OF WIRE & CONDUIT
1	LP21	400/230	31.27	31.23	31.21	70	100 3 25 MCCB	Y22
2	PP21	400/230	36.78	36.35	35.62	40	100 3 25 MCCB	Y20
3	PP22	400/230	40.82	38.17	35.33	70	100 3 25 MCCB	Y22
4	SPACE							

$I_L = 108.87$ AMPS
 USE: 4-60mm² (L/N) THHN + 1-14mm² (G) TW IN 50mm² MC (Y20)
 M/N: 160A, 225AF, 3P, 400V, 25 KAC MCCB

DISTRIBUTION PANEL "DP22" (EXISTING) MOUNTING: NEMA 1, SURFACE MOUNTED WITH GRAY POWDER COATED FINISH WITH MULTI-TERMINAL BLOCK FOR SOLID GROUND AND NEUTRAL BUS.

LOAD NO.	LOAD DESCRIPTION	VOLT	AMPERE	PHASE	WIRE SIZE	CONDUCTOR	PROTECTION	NUMBER & SIZE OF WIRE & CONDUIT
1	LP22	400/230	33.57	33.32	33.41	70	100 3 25 MCCB	Y22
2	PP22	400/230	36.17	37.74	36.35	40	100 3 25 MCCB	Y20
3	PP23	400/230	42.63	38.15	39.37	70	100 3 25 MCCB	Y22
4	PP24	400/230	15.22	30.44	30.44	50	100 3 25 MCCB	Y20

$I_L = 139.85$ AMPS
 USE: 4-60mm² (L/N) THHN + 1-14mm² (G) TW IN 50mm² MC (Y20)
 M/N: 160A, 225AF, 3P, 400V, 25 KAC MCCB

DISTRIBUTION PANEL "DP23" (EXISTING) MOUNTING: NEMA 1, SURFACE MOUNTED WITH GRAY POWDER COATED FINISH WITH MULTI-TERMINAL BLOCK FOR SOLID GROUND AND NEUTRAL BUS.

LOAD NO.	LOAD DESCRIPTION	VOLT	AMPERE	PHASE	WIRE SIZE	CONDUCTOR	PROTECTION	NUMBER & SIZE OF WIRE & CONDUIT
1	LP23	400/230	33.15	30.07	30.65	60	100 3 25 MCCB	Y14
2	PP23	400/230	61.39	60.53	59.82	70	100 3 25 MCCB	Y22
3	PP23C	400/230	20.02	16.41	17.86	40	100 3 25 MCCB	Y20
4	PP24	400/230	15.22	30.44	30.44	50	100 3 25 MCCB	Y20

$I_L = 138.57$ AMPS
 USE: 4-60mm² (L/N) THHN + 1-14mm² (G) TW IN 50mm² MC (Y20)
 M/N: 160A, 225AF, 3P, 400V, 25 KAC MCCB

DISTRIBUTION PANEL "DP24" (EXISTING) MOUNTING: NEMA 1, SURFACE MOUNTED WITH GRAY POWDER COATED FINISH WITH MULTI-TERMINAL BLOCK FOR SOLID GROUND AND NEUTRAL BUS.

LOAD NO.	LOAD DESCRIPTION	VOLT	AMPERE	PHASE	WIRE SIZE	CONDUCTOR	PROTECTION	NUMBER & SIZE OF WIRE & CONDUIT
1	LP24	400/230	36.59	33.44	33.50	70	100 3 25 MCCB	Y22
2	PP24	400/230	33.43	32.21	34.24	40	100 3 25 MCCB	Y20
3	SPACE							
4	SPACE							

$I_L = 70.02$ AMPS
 USE: 4-30mm² (L/N) THHN + 1-8.0mm² (G) TW IN 32mm² MC (Y20)
 M/N: 100A, 100AF, 3P, 400V, 25 KAC MCCB

POWER PANEL "PP100A" (EXISTING) MOUNTING: NEMA 1, SURFACE MOUNTED WITH GRAY POWDER COATED FINISH WITH MULTI-TERMINAL BLOCK FOR SOLID GROUND AND NEUTRAL BUS.

LOAD NO.	LOAD DESCRIPTION	VOLT	AMPERE	PHASE	WIRE SIZE	CONDUCTOR	PROTECTION	NUMBER & SIZE OF WIRE & CONDUIT
1	VA/ACCU-2	400/230	3.80	4.16	4.16	30	100 3 25 MCCB	Y20
2	VA/ACCU-1	400/230	2.80	4.16	4.16	30	100 3 25 MCCB	Y20
3	VA/ACCU-1	400/230	2.80	4.16	4.16	30	100 3 25 MCCB	Y20
4	SPACE							
5	FAN COIL UNITS	230	1.00			20	1 1 25 MCCB	3-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC
6	SPACE							
7	FAN COIL UNITS	230	1.00			20	1 1 25 MCCB	3-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC
8	SPACE							
9	FAN COIL UNITS	230	1.00			20	1 1 25 MCCB	3-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC

$I_L = (22.4 + 1.00) + (25 \times 9.46) = 26.10$ AMPS
 USE: 4-14mm² (L/N) THHN + 1-5.5mm² (G) TW IN 25mm² MC (Y14)
 M/N: 30A, 100AF, 3P, 400V, 25 KAC MCCB

POWER PANEL "PP100B" (EXISTING) MOUNTING: NEMA 1, SURFACE MOUNTED WITH GRAY POWDER COATED FINISH WITH MULTI-TERMINAL BLOCK FOR SOLID GROUND AND NEUTRAL BUS.

LOAD NO.	LOAD DESCRIPTION	VOLT	AMPERE	PHASE	WIRE SIZE	CONDUCTOR	PROTECTION	NUMBER & SIZE OF WIRE & CONDUIT
1	FAN COIL UNITS	400/230	116	0.50		20	100 1 25 MCCB	3-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC
2	FAN COIL UNITS	400/230	116	0.50		20	100 1 25 MCCB	3-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC
3	FAN COIL UNITS	400/230	116	0.50		20	100 1 25 MCCB	3-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC
4	FAN COIL UNITS	400/230	116	0.50		20	100 1 25 MCCB	3-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC
5	FAN COIL UNITS	400/230	116	0.50		20	100 1 25 MCCB	3-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC
6	SPACE							
7	FAN COIL UNITS	400/230	116	0.50		20	100 1 25 MCCB	3-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC
8	SPACE							
9	FAN COIL UNITS	400/230	116	0.50		20	100 1 25 MCCB	3-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC

$I_L = 7.49 + (25 \times 0.86) = 7.90$ AMPS
 USE: 4-5.5mm² (L/N) THHN + 1-5.5mm² (G) TW IN 20mm² MC (Y5.5)
 M/N: 30A, 100AF, 3P, 400V, 25 KAC MCCB

POWER PANEL "PP100C" (EXISTING) MOUNTING: NEMA 1, SURFACE MOUNTED WITH GRAY POWDER COATED FINISH WITH MULTI-TERMINAL BLOCK FOR SOLID GROUND AND NEUTRAL BUS.

LOAD NO.	LOAD DESCRIPTION	VOLT	AMPERE	PHASE	WIRE SIZE	CONDUCTOR	PROTECTION	NUMBER & SIZE OF WIRE & CONDUIT
1	FAN COIL UNITS	400/230	116	0.50		20	100 1 25 MCCB	3-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC
2	FAN COIL UNITS	400/230	116	0.50		20	100 1 25 MCCB	3-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC
3	FAN COIL UNITS	400/230	116	0.50		20	100 1 25 MCCB	3-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC
4	FAN COIL UNITS	400/230	116	0.50		20	100 1 25 MCCB	3-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC
5	FAN COIL UNITS	400/230	116	0.50		20	100 1 25 MCCB	3-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC
6	SPACE							
7	FAN COIL UNITS	400/230	116	0.50		20	100 1 25 MCCB	3-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC
8	SPACE							
9	FAN COIL UNITS	400/230	116	0.50		20	100 1 25 MCCB	3-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC

$I_L = 7.49 + (25 \times 0.86) = 7.90$ AMPS
 USE: 4-5.5mm² (L/N) THHN + 1-5.5mm² (G) TW IN 20mm² MC (Y5.5)
 M/N: 30A, 100AF, 3P, 400V, 25 KAC MCCB

POWER PANEL "PP100D" (EXISTING) MOUNTING: NEMA 1, SURFACE MOUNTED WITH GRAY POWDER COATED FINISH WITH MULTI-TERMINAL BLOCK FOR SOLID GROUND AND NEUTRAL BUS.

LOAD NO.	LOAD DESCRIPTION	VOLT	AMPERE	PHASE	WIRE SIZE	CONDUCTOR	PROTECTION	NUMBER & SIZE OF WIRE & CONDUIT
1	ACCU (23TR)	400/230	33661	57.26	160	225	3 36 MCCB	4-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC
2	ACCU (23TR)	400/230	30113	43.66	125	225	3 36 MCCB	4-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC
3	ACCU (17TR)	400/230	25652	37.03	100	100	1 25 MCCB	4-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC
4	ACCU (9.5TR)	400/230	16094	23.23	60	100	1 25 MCCB	4-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC
5	ACCU (8TR)	400/230	10248	14.79	50	100	1 25 MCCB	4-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC
6	PP10FCU	400/230	10248	14.79	50	100	1 25 MCCB	4-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC
7	SPACE							
8	SPACE							
9	SPACE							
10	SPACE							

$I_L = 183.3 + 7.49 + (25 \times 62.78) = 206.44$ AMPS
 USE: 4-250mm² (L/N) THHN + 1-30mm² (G) TW IN 100mm² MC (Y250)
 M/N: 300A, 400AF, 3P, 400V, 36 KAC MCCB

POWER PANEL "PP100E" (EXISTING) MOUNTING: NEMA 1, SURFACE MOUNTED WITH GRAY POWDER COATED FINISH WITH MULTI-TERMINAL BLOCK FOR SOLID GROUND AND NEUTRAL BUS.

LOAD NO.	LOAD DESCRIPTION	VOLT	AMPERE	PHASE	WIRE SIZE	CONDUCTOR	PROTECTION	NUMBER & SIZE OF WIRE & CONDUIT
1	ACCU (23TR)	400/230	33661	57.26	160	225	3 36 MCCB	4-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC
2	ACCU (23TR)	400/230	30113	43.66	125	225	3 36 MCCB	4-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC
3	ACCU (17TR)	400/230	25652	37.03	100	100	1 25 MCCB	4-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC
4	ACCU (9.5TR)	400/230	16094	23.23	60	100	1 25 MCCB	4-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC
5	ACCU (8TR)	400/230	10248	14.79	50	100	1 25 MCCB	4-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC
6	PP10FCU	400/230	10248	14.79	50	100	1 25 MCCB	4-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC
7	SPACE							
8	SPACE							
9	SPACE							
10	SPACE							

$I_L = 183.3 + 7.49 + (25 \times 62.78) = 206.44$ AMPS
 USE: 4-250mm² (L/N) THHN + 1-30mm² (G) TW IN 100mm² MC (Y250)
 M/N: 300A, 400AF, 3P, 400V, 36 KAC MCCB

POWER PANEL "PP100F" (EXISTING) MOUNTING: NEMA 1, SURFACE MOUNTED WITH GRAY POWDER COATED FINISH WITH MULTI-TERMINAL BLOCK FOR SOLID GROUND AND NEUTRAL BUS.

LOAD NO.	LOAD DESCRIPTION	VOLT	AMPERE	PHASE	WIRE SIZE	CONDUCTOR	PROTECTION	NUMBER & SIZE OF WIRE & CONDUIT
1	ACCU (23TR)	400/230	33661	57.26	160	225	3 36 MCCB	4-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC
2	ACCU (23TR)	400/230	30113	43.66	125	225	3 36 MCCB	4-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC
3	ACCU (17TR)	400/230	25652	37.03	100	100	1 25 MCCB	4-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC
4	ACCU (9.5TR)	400/230	16094	23.23	60	100	1 25 MCCB	4-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC
5	ACCU (8TR)	400/230	10248	14.79	50	100	1 25 MCCB	4-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC
6	PP10FCU	400/230	10248	14.79	50	100	1 25 MCCB	4-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC
7	SPACE							
8	SPACE							
9	SPACE							
10	SPACE							

$I_L = 183.3 + 7.49 + (25 \times 62.78) = 206.44$ AMPS
 USE: 4-250mm² (L/N) THHN + 1-30mm² (G) TW IN 100mm² MC (Y250)
 M/N: 300A, 400AF, 3P, 400V, 36 KAC MCCB

POWER PANEL "PP100G" (EXISTING) MOUNTING: NEMA 1, SURFACE MOUNTED WITH GRAY POWDER COATED FINISH WITH MULTI-TERMINAL BLOCK FOR SOLID GROUND AND NEUTRAL BUS.

LOAD NO.	LOAD DESCRIPTION	VOLT	AMPERE	PHASE	WIRE SIZE	CONDUCTOR	PROTECTION	NUMBER & SIZE OF WIRE & CONDUIT
1	FAN COIL UNITS	400/230	116	0.50		20	100 1 25 MCCB	3-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC
2	FAN COIL UNITS	400/230	116	0.50		20	100 1 25 MCCB	3-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC
3	FAN COIL UNITS	400/230	116	0.50		20	100 1 25 MCCB	3-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC
4	FAN COIL UNITS	400/230	116	0.50		20	100 1 25 MCCB	3-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC
5	FAN COIL UNITS	400/230	116	0.50		20	100 1 25 MCCB	3-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC
6	SPACE							
7	FAN COIL UNITS	400/230	116	0.50		20	100 1 25 MCCB	3-35mm ² L/N Wire + 1-35mm ² G/W in 15mm ² MC
8	SPACE							
9	FAN COIL UNITS	400/230	116	0.50		20	100 1 25 MCCB	3-35mm<