

FEEDER SCHEDULE FOR MDB

| PROJECT: อาคารพักอาศัยรวม ค.ส.ล. 5 ชั้น | | | | | | | | | | | | |
|---|------|-------|---------------------|---------|---------|---------------------------|-------------|---|-----------------|-----------------|------|--------|
| FEEDER | FROM | TO | CONNECTED LOAD (VA) | | | CIRCUIT BREAKER | | WIRE (AWG) | | RACEWAYS (INCH) | | REMARK |
| | | | A | B | C | Iu (AMP) | Icn (Karms) | SIZE | TYPE | SIZE | TYPE | |
| F1 | MDB | 1DB | 37,855 | 37,425 | 27,150 | MCCB 3P 3P 160AT/160AF | 65 | 4x95/G16Sq.mm | THW (IEC 01) | 2 1/2" | IMC | |
| F2 | MDB | 2DB | 34,095 | 34,095 | 23,450 | MCCB 3P 3P 150AT/160AF | 65 | 4x95/G16Sq.mm | THW (IEC 01) | 2 1/2" | IMC | |
| F3 | MDB | 3DB | 34,095 | 34,095 | 23,450 | MCCB 3P 3P 150AT/160AF | 65 | 4x95/G16Sq.mm | THW (IEC 01) | 2 1/2" | IMC | |
| F4 | MDB | 4DB | 36,265 | 36,615 | 26,210 | MCCB 3P 3P 150AT/160AF | 65 | 4x95/G16Sq.mm | THW (IEC 01) | 2 1/2" | IMC | |
| F5 | MDB | 5DB | 34,095 | 34,095 | 23,450 | MCCB 3P 3P 150AT/160AF | 65 | 4x95/G16Sq.mm | THW (IEC 01) | 2 1/2" | IMC | |
| F6 | MDB | SMCC | 5,000 | 5,000 | 5,000 | MCCB 3P 3P 30AT/100AF | 65 | 4x10/G4Sq.mm | THW (IEC 01) | 1" | IMC | |
| F7 | MDB | PBS | 3,000 | 3,000 | 3,000 | MCCB 3P 3P 20AT/100AF | 65 | 4x4/G2.5Sq.mm | THW (IEC 01) | 3/4" | IMC | |
| F8 | MDB | SPARE | 3,000 | 3,000 | 3,000 | MCCB 3P 3P 20AT/100AF | 65 | | | | | |
| F9 | MDB | SPACE | | | | MCCB 3P | 65 | | | | | |
| F10 | MDB | SPACE | | | | MCCB 3P | 65 | | | | | |
| TOTAL CONNECTED LOAD (VA) | | | 187,405 | 187,325 | 134,710 | MCB 3P | | 2(4X1C)-185 Sq.mm.CV(0.6/1kV) IN 3" IMC | | | | |
| DEMAND FACTOR | | | 0.65 | | | 630AT/630AF | | IN 2x2 DUCT BANK | | | | |
| DEMAND LOAD (VA) | | | 331,136 | | | IC ≥ 65 KA | | | | | | |

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|--|--------------------|--------------------------|--------|--|--------|----------------------------|-----------------------|---------------------------------|---|---|--|--|
| PANEL NO. 1DB | | LOCATION 1st FLOOR | | | | | | | | | | |
| ELECTRICAL SYSTEM 380 /220V 3 PHASE 4 WIRE S/N | | | | MAX. CKT 12 | | CKT CONNECT PLUG IN | | MOUNTING SURFACE MOUNTED | | | | |
| IP 41 | | BUS RATING 100 A. | | AT 400V AC 2P 4W, FULL NEUTRAL ,GROUND BUS | | | | | | | | |
| CCT. NO. | CONNECTED LOAD, VA | | | ROUTING | | CIRCUIT BREAKER | | | | CONDUIT & RACEWAY | | |
| | ∅ A | ∅ B | ∅ C | FROM | TO | POLE | Iu (AMP) | Ir (AMP) | Icn (Karms) | | | |
| 1 | 3,760 | 3,330 | 3,700 | 1DB | 1LP1 | 3 | 30 | 100 | 36 | 4x10/G4Sq.mm THW (IEC 01) IN 1" IMC | | |
| 2 | 10,685 | | | 1DB | 1CU1 | 2 | 50 | 63 | 36 | 2x16/G10 Sq.mm THW (IEC 01) IN 3/4" EMT | | |
| 3 | | 10,725 | | 1DB | 1CU2 | 2 | 50 | 63 | 36 | 2x16/G10 Sq.mm THW (IEC 01) IN 3/4" EMT | | |
| 4 | | | 10,725 | 1DB | 1CU3 | 2 | 50 | 63 | 36 | 2x16/G10 Sq.mm THW (IEC 01) IN 3/4" EMT | | |
| 5 | 10,685 | | | 1DB | 1CU4 | 2 | 50 | 63 | 36 | 2x16/G10 Sq.mm THW (IEC 01) IN 3/4" EMT | | |
| 6 | | 10,685 | | 1DB | 1CU5 | 2 | 50 | 63 | 36 | 2x16/G10 Sq.mm THW (IEC 01) IN 3/4" EMT | | |
| 7 | | | 10,725 | 1DB | 1CU6 | 2 | 50 | 63 | 36 | 2x16/G10 Sq.mm THW (IEC 01) IN 3/4" EMT | | |
| 8 | 10,725 | | | 1DB | 1CU7 | 2 | 50 | 63 | 36 | 2x16/G10 Sq.mm THW (IEC 01) IN 3/4" EMT | | |
| 9 | | 10,685 | | 1DB | 1CU8 | 2 | 50 | 63 | 36 | 2x16/G10 Sq.mm THW (IEC 01) IN 3/4" EMT | | |
| 10 | 2,000 | 2,000 | 2,000 | 1DB | SPARE | 3 | 20 | 100 | 36 | | | |
| 11 | | | | 1DB | SPACE | | | | | | | |
| 12 | | | | 1DB | SPACE | | | | | | | |
| TOTAL | | | | 37,855 | 37,425 | 27,150 | I _{max} =(A) | | 155.63 | MAIN INCOMING: 4x95/G16 Sq.mm.THW IN 2 1/2" IMC | | |
| | | | | AT DEMAND FACTOR | | 81,944 | 80% | | MAIN CB: 3P 160AT/160AF MCB I _c > 36 KA. | | | |
| | | | | MAIN BUSBAR: 160 A. | | | | | | | | |

PROJECT: อาคารพักอาศัยรวม ค.ส.ล. 5 ชั้น

| PANEL NO. 1LP1 | | LOCATION 1st FLOOR | | | | | | | | | | |
|--|-----------------|---|--------------|-----------------------|----------|----------------------|------------|---------------|----------------|-----------|------|--------|
| ELECTRICAL SYSTEM 380 /220V 3 PHASE 4 WIRE S/N MAX. CKT 30 CKT CONNECT PLUG IN MOUNTING SURFACE MOUNTED | | | | | | | | | | | | |
| IP 41 | | BUS RATING 100 A. AT 400V AC 3P 4W, FULL NEUTRAL ,GROUND BUS | | | | | | | | | | |
| CKT NO. | DESCRIPTION | LOAD(VA) | | | CB | | | WIRE (sq.mm) | | CONDUIT | | REMARK |
| | | A | B | C | POLE | AT | IC | SIZE | TYPE | SIZE | TYPE | |
| 1 | LIGHTING | 220 | | | 1 | 15 | 10 | 2x2.5/G2.5 | THW (IEC 01) | 1/2" | EMT | |
| 3 | LIGHTING | | 220 | | 1 | 15 | 10 | 2x2.5/G2.5 | THW (IEC 01) | 1/2" | EMT | |
| 5 | LIGHTING | | | 220 | 1 | 15 | 10 | 2x2.5/G2.5 | THW (IEC 01) | 1/2" | EMT | |
| 7 | LIGHTING | 300 | | | 1 | 15 | 10 | 2x2.5/G2.5 | THW (IEC 01) | 1/2" | EMT | |
| 9 | LIGHTING | | 300 | | 1 | 15 | 10 | 2x2.5/G2.5 | THW (IEC 01) | 1/2" | EMT | |
| 11 | LIGHTING | | | 220 | 1 | 15 | 10 | 2x2.5/G2.5 | THW (IEC 01) | 1/2" | EMT | |
| 13 | LIGHTING | 220 | | | 1 | 15 | 10 | 2x2.5/G2.5 | THW (IEC 01) | 1/2" | EMT | |
| 15 | LIGHTING | | 250 | | 1 | 15 | 10 | 2x2.5/G2.5 | THW (IEC 01) | 1/2" | EMT | |
| 17 | EMERGENCY LIGHT | | | 300 | 1 | 20 | 10 | 2x4/G2.5 | THW (IEC 01) | 1/2" | EMT | |
| 19 | EMERGENCY LIGHT | 300 | | | 1 | 20 | 10 | 2x4/G2.5 | THW (IEC 01) | 1/2" | EMT | |
| 21 | EMERGENCY LIGHT | | 100 | | 1 | 20 | 10 | 2x4/G2.5 | THW (IEC 01) | 1/2" | EMT | |
| 23 | SPARE | | | 500 | 1 | 15 | 10 | | | | | |
| 25 | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | |
| 2 | RECEPTACLE | 360 | | | 1 | 20 | 10 | 2x4/G2.5 | THW (IEC 01) | 1/2" | EMT | |
| 4 | RECEPTACLE | | 360 | | 1 | 20 | 10 | 2x4/G2.5 | THW (IEC 01) | 1/2" | EMT | |
| 6 | RECEPTACLE | | | 360 | 1 | 20 | 10 | 2x4/G2.5 | THW (IEC 01) | 1/2" | EMT | |
| 8 | RECEPTACLE | 360 | | | 1 | 20 | 10 | 2x4/G2.5 | THW (IEC 01) | 1/2" | EMT | |
| 10 | EF-101 | | 100 | | 1 | 20 | 10 | 2x4/G2.5 | THW (IEC 01) | 1/2" | EMT | |
| 12 | EF-102 | | | 100 | 1 | 20 | 10 | 2x4/G2.5 | THW (IEC 01) | 1/2" | EMT | |
| 14 | SPARE | 1,000 | | | 1 | 20 | 10 | | | | | |
| 16 | SPARE | | 1,000 | | 1 | 20 | 10 | | | | | |
| 18 | SPARE | | | 1,000 | 1 | 20 | 10 | | | | | |
| 20 | SPARE | 1,000 | | | 1 | 20 | 10 | | | | | |
| 22 | SPARE | | 1,000 | | 1 | 20 | 10 | | | | | |
| 24 | SPARE | | | 1,000 | 1 | 20 | 10 | | | | | |
| 26 | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | |
| TOTAL LOAD | | 3,760 | 3,330 | 3,700 | | | | | | | | |
| TOTAL DEMAND | | 8,632 | | | 3 | 30 | 100 | | | | | |
| MAIN SWITCH | | MCCB | | 3P. 30AT/100AF | | INTERUPTING CAPACITY | | 18 | KA | AT 400 V. | | |
| FEEDER SIZE | | 4x10/G4Sq.mm THW (IEC 01) | | CONDUIT SIZE | | 1" IMC | | FORM | 1DB(F1) | | | |

LOAD SCHEDULE 1

SCALE _____ NTS _____

| | | | | | |
|--|---|----------------------------|--|--|--|
| | กรมส่งเสริมการค้าระหว่างประเทศ ส่วนมาตรฐานการออกแบบ กลุ่มพัฒนาและตรวจสอบทางเทคนิค | แบบแสดง LOAD SCHEDULE 1 | แบบแสดง 60-001-1793 | เขียนแบบ นายชัยณรงค์ แผงศรี | วิศวกร นายชัยยศ พิณจิตรสมุทร สย. 6856 |
| | โครงการก่อสร้างอาคารชุดพักอาศัย 5 ชั้น | มาตรฐาน กุมาพันธ์ 2560 | เขียนแบบ นางสาวปิยะมาศ ลิ้มปิติทรัพย์วงศ์ | วิศวกร นายสุเวศ พงษาพันธ์ กย. 12509 วิศวกรโยธาชำนาญการ | |
| | | | เขียนแบบ นายธวัชชัย หวังวรรณกลาง | วิศวกร ผู้อำนวยการส่วนมาตรฐานการออกแบบ | |
| | | | เขียนแบบ นายพิศาล สิงห์พันธ์ | วิศวกร (แทน) ผู้อำนวยการกลุ่มพัฒนาและตรวจสอบทางเทคนิค | |