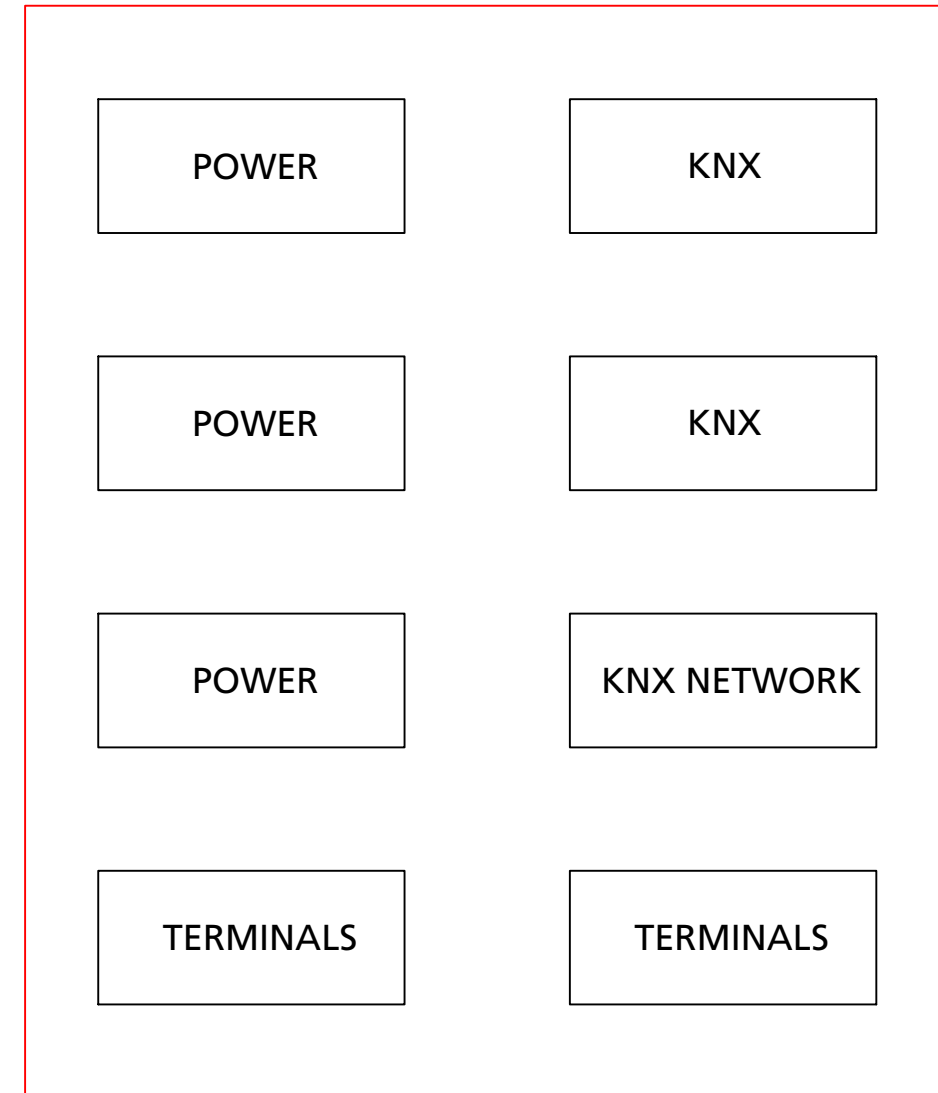
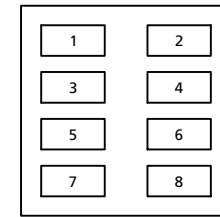


A1 MAIN SWITCHBOARD



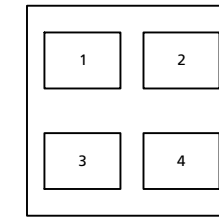
- Please take note all equipment to be inserted in the order listed:
- Protection on the left and automation on the right hand side of the DB1
- C32A 3-Pole as Main Switch
- C16A 3-pole to protect Motor control Centre
- RCBO, 4-pole, type A, In: 25 A, 30 mA, (EV unit)
- C16A 3-Pole (EV unit)
- RCBO, 10 kA, 1P+N, type A, 30 mA
- Miniature circuit breaker 230 V 10kA, 1+N-pole, C, 10A (SO 1 and SO 3 and Blind (Blind protection 6A))
- RCBO, 10 kA, 1P+N, type A, 30 mA
- Miniature circuit breaker 230 V 10kA, 1+N-pole, C, 10A (SO 2 and SO 4 SO 5)
- RCBO, 10 kA, 1P+N, type A, 30 mA (need to order)
- C6A 2-pole protect (L1, L2 and L3)
- C6A 2-pole protect (L4 and L5)
- C6A 2-pole protect (L6 and L7)

SW1



SW1	1	L1-3D: ON / Dim UP
	2	L1-3D: OFF / Dim DOWN
	3	SO3: ON/OFF
	4	L3D: OFF/ON
	5	Scenario 1
	6	Scenario 2
	7	Scenario 3
	8	ALL: OFF
SW2	1	BLINDS UP
	2	BLINDS DOWN
	3	SO2: ON/OFF
	4	L1-3D: ON / Dim UP to 100%
SW3	1 LEVER	Control L4 Via two way switching
SW4	2 SINGLE	A1 I1 control SO4 & SO5
		A1 I7 control SO1
SW5	1 LEVER	A1 I3 control L7 L8
SW6	1 LEVER	A1 I5 SO1: ON/OFF
SW7	KNX	L5: Short ON / Long Dim UP
	SWITCH	L5: Short OFF / Long Dim DOWN
	LEGRAND	
SW8	1 LEVER	Control L4 via two way switching
MD1		Control L6

SW2



A1 MAIN SWITCHBOARD
B1 MOTOR CONTROL CENTRE
EV1 ELECTRIC VEHICLE CHARGING STATION
C1 BLIND

L1D LIGHT 1
L2D LIGHT 2
L3D LIGHT 3
L4 LIGHT 4
L5 LIGHT 5
L6 LIGHT 6
L7 LIGHT 7
L8 LIGHT 8

SW1 4 Gang Jung
SW2 2 Gang Jung Blind Control
SW3 Two way switching
SW4 2 lever Socket outlet control
SW5 Socket outlet control
SW6 Socket outlet control
SW7 KNX Switch
SW8 Two way switching

MD1 KNX motion Detector

PS Power Supply

M1 Motor

CABLE SIZES:

PS-A1	2,5 mm ²
A1-B1	2,5 mm ²
SOCKET OUTLETS	2,5 mm ²
MOTOR	1,5 mm ²
BLINDS	1,5 mm ²
LIGHTING CIRCUITS	1,5 mm ²
CONTROL CIRCUITS (IN BOARDS)	1,5 mm ²

COLOR CODES:

L1	BROWN
L2	BLACK
L3	GREY
N	BLUE
PE	GREEN/YELLOW
0V	BLUE/WHITE
+24V	VIOLET
KNX-	BLACK
KNX+	RED

Automation on the right hand side of the DB1

CHANNEL ALLOCATION

A1 Legrand 2679: 20 O 18 I

O1 BLINDS UP
O2
O3 SO 4
O4
O5 BLINDS Down
O6
O7 SO 3
O8
...
20

A2 Legrand 2672:8 O

O1 L7
O2
O3 L8
O4
O5 SO5
O6
O7
O8

A3 Legrand 2654: 20

O1 L5
O2 L6

A4 ABB SA/S4.16.6.2 40

O1 SO1
O2 SO2
O3
O4

A5 Siemens 5WG1141-1AB03

Dali L1-L3

SCENARIOS

- SO1, SO2, ON L5 100% and L6 20% SHUTTER UP
- SO3 and SO4 ON, SO2 and SO5 OFF, L1, L2 and L3 50% SHUTTER DOWN
- SO2 and SO4 ON, SO1 and SO3 OFF, L1 and L3 OFF L2 100%



Test Project for the 47th WorldSkills
Competition in Lyon, France 2024
Copyright © 2024 WorldSkills International
All Rights Reserved

Skill: 18 Electrical Installations

SCM: Nick du Plessis

LAST UPDATE:
July 2024

SHEET SIZE:
A3