

A1

TERMINALS

MS

MCBO1

MCBO2

MCBO3

K1

K2

R E L A Y S

TERMINALS

MS MAIN SWITCH
MCBO1 FEED SUB BOARD B1
MCBO2 FEED SUB BOARD C1
MCBO3 FEED CONTROL CIRCUIT IN A1
K1 CONTACTOR FOR POWER TO SUB BOARD B1
K2 CONTACTOR FOR POWER TO SUB BOARD C1
RELAYS RELAYS FOR EMERGENCY STOP FUNCTIONS
(CONTROLLING K1 AND K1 AS PER SPEC.)

Test Project for the 44th WorldSkills
Competition in Abu Dhabi, United Arab Emirates 2017.
Copyright © 2017 WorldSkills International.
All Rights Reserved.



Skill: Electrical Installation 18

Scale: N/A

Date: 13.01.2017

Paper: A3

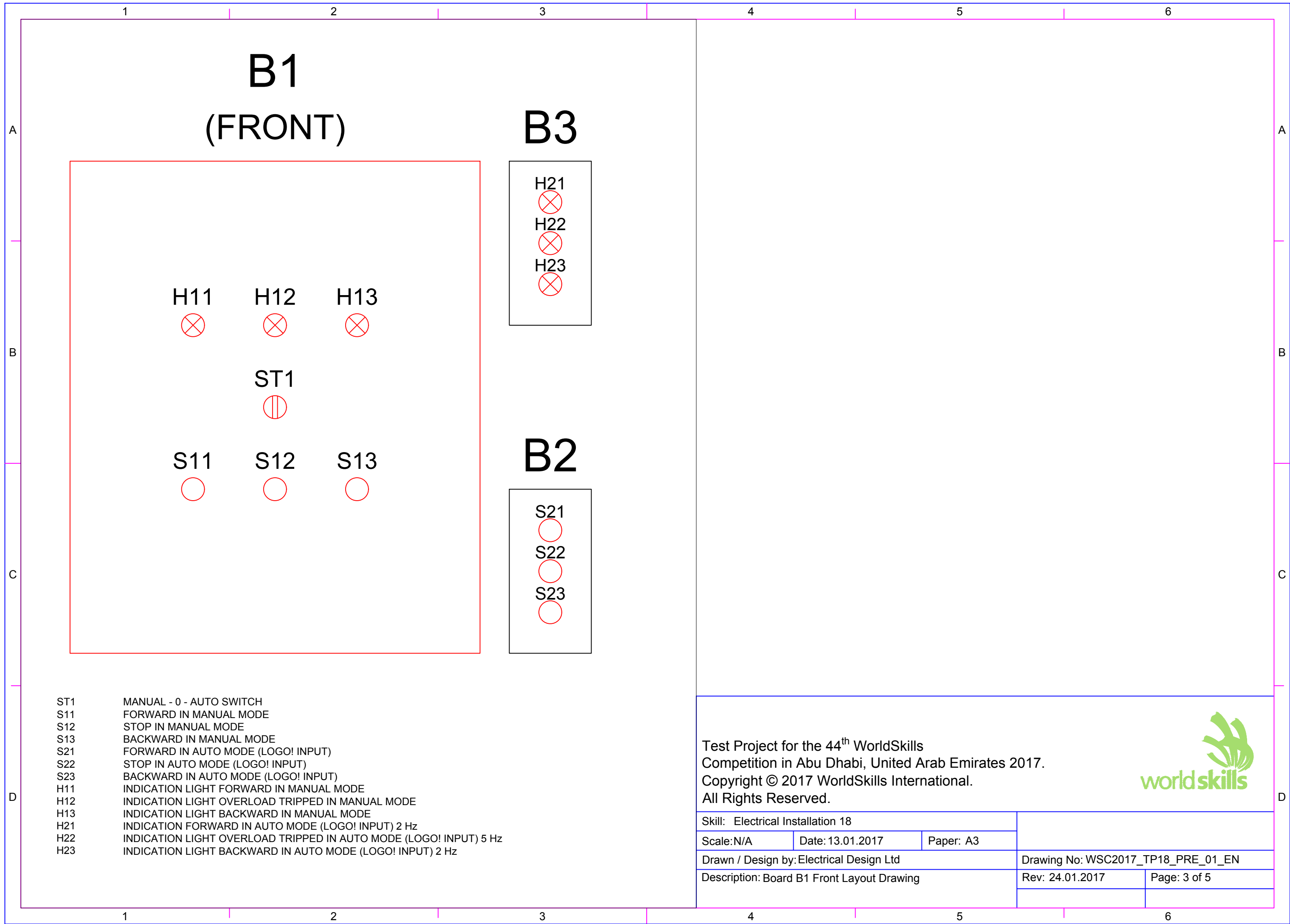
Drawn / Design by: Electrical Design Ltd

Drawing No: WSC2017_TP18_PRE_01_EN

Description: Board A1 Layout Drawing

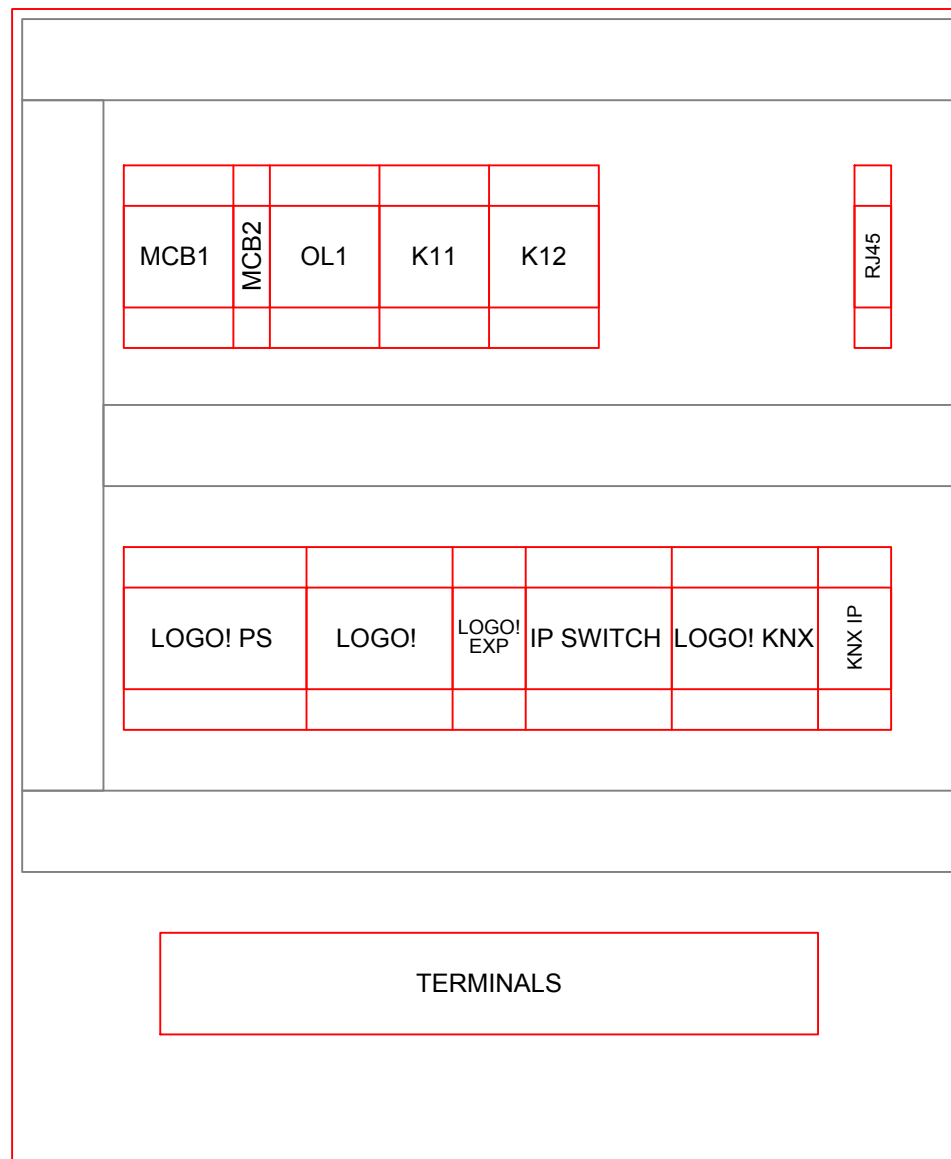
Rev: 24.01.2017

Page: 2 of 5



B1

(MOUNTING PLATE)



MCB1	MAIN SWITCH
MCB2	FEED CONTROL CIRCUIT IN B1
OL1	MOTOR OVERLOAD PROTECTION
K11	FORWARD RUNNING CONTACTOR (CLOCKWISE)
K12	BACKWARD RUNNING CONTACTOR (COUNTER CLOCKWISE)
RJ45	NETWORK OUTLET TO N1
LOGO! PS	LOGO! POWER SUPPLY
LOGO!	LOGO! MAIN UNIT WITH DISPLAY
LOGO! EXP	LOGO! EXPANSION MODULE
IP SWITCH	IP SWITCH
LOGO! KNX	LOGO! / KNX GATEWAY
KNX IP	KNX / IP ROUTER

Test Project for the 44th WorldSkills
Competition in Abu Dhabi, United Arab Emirates 2017.
Copyright © 2017 WorldSkills International.
All Rights Reserved.



Skill: Electrical Installation 18			Drawing No: WSC2017_TP18_PRE_01_EN	
Scale: N/A	Date: 12.01.2017	Paper: A3		
Drawn / Design by: Electrical Design Ltd			Rev: 24.01.2017	
Description: Board B1 Mounting Plate Layout Drawing			Page: 4 of 5	

C1

MCB11	MCB12	MCB13	MCB14	MCB15	MCB16	
-------	-------	-------	-------	-------	-------	--

PS KNX	KNX SW	KNX SH	
--------	--------	--------	--

KNX DIM	
---------	--

TERMINALS

MCB11	MAIN SWITCH
MCB12	FEED SOCKETS
MCB13	FEED BLIND/DOOR
MCB14	FEED HEATING/COOLING
MCB15	FEED LIGHTS
MCB16	FEED CONTROL CIRCUIT IN C1
PS KNX	KNX 320mA POWER SUPPLY
KNX SW	KNX SWITCH ACTUATOR
KNX SH	KNX SHUTTER ACTUATOR
KNX DIM	KNX DIMMING ANCTUATOR

Test Project for the 44th WorldSkills
Competition in Abu Dhabi, United Arab Emirates 2017.
Copyright © 2017 WorldSkills International.
All Rights Reserved.



Skill: Electrical Installation 18				
Scale: N/A	Date: 13.01.2017	Paper: A3		
Drawn / Design by: Electrical Design Ltd			Drawing No: WSC2017_TP18_PRE_01_EN	
Description: Board C1 Layout Drawing			Rev: 24.01.2017	Page: 5 of 5