

# Turntable carwash

## Document book

0	12/2/2025	long	
REV.	DATE	NAME	CHANGES
Open Hardware Community		Long Phan	
		CONTRACT : longphan@ieee.org	REVISION 0  SCHEME 01

1-Document book


Drawing	Description	Function	Location	Revision	Date	Created by	Folder	Folder description
<a href="#">01</a>	Cover page	=F1	+L1	0	12/2/2025	long		
<a href="#">02</a>	Drawings list	=F1	+L1	0	12/2/2025	long		
<a href="#">03</a>	Single Line	=F1	+L1	0	12/2/2025	long		
<a href="#">04</a>	Power	=F1	+L1	0	12/29/2025	long		
<a href="#">05</a>	QD75D4 control	=F1	+L1	0	1/2/2026	long		
<a href="#">06</a>	QX and QY control	=F1	+L1	0	1/2/2026	long		
<a href="#">07</a>	Bill Of Materials grouped by manufacturer	=F1	+L1	0	1/4/2026	long		
<a href="#">08</a>	Bill Of Materials grouped by manufacturer	=F1	+L1	0	1/4/2026	long		

Long Phan	Document book					REVISION 0
		0	12/2/2025	long		
		REV.	DATE	NAME	CHANGES	SCHEME
CONTRACT: longphan@ieee.org	LOCATION: +L1 Main electrical closet					02

-CB1

EZC100H4060


In = 60A



-Q1

A9K24320

In = 20A



-Q2

A9K24310


In = 10A



-Q3

A9K24306


In = 6A



-Q4

A9K24306


In = 6A



-Q5

A9K24332


In = 32A



-Q6

A9K24320


In = 20A



-Q7

A9K24320


In = 20A



-Q8

A9K24210


In = 10A



-Q9

A9K24210


In = 10A



-K15

A9C22712


In = 25



-J1

MR-J3-200A


Turntable



-J2

MR-J3-40A


Spray column



-J3

MR-J3-10A


Top dryer flap



-J4

MR-J3-10A

Bottom dryer flap



-J5

FR-A740 5.5K

Water




-K1

LC1D25M7

In = 25

Top dryer fan




-K2

LC1D25M7

In = 25

Bottom dryer fan




-G1

ABLS1A24050E

P = 120W


U = 24V DC



-CPU1


PLCQ

PLC\_Q35B\_Q61P\_Q02HCPU\_QD75D4\_Q65AD\_QJ71C24N-R4\_QX41\_QY41P



-J6


GT2104-RTBD05



-RT1

LR2K0322


In = 16A



-RT2

LR2K0322


In = 16A



-B1

O1D100


Range = 10M



-B2

O1D100


Range = 10M



-B3

O1D100

Range = 10M




-M6

EP52

P = 7.5kW

2800rpm, 12000 m3/h

Top dryer fan




-M7

EP52

P = 7.5kW

2800rpm, 12000 m3/h

Bottom dryer fan



-X1



-K3

RSL1PRBU

In = 24VDC

Water nozzle #1



-K4

RSL1PRBU

In = 24VDC

Water nozzle #2



-K5

RSL1PRBU

In = 24VDC

Water nozzle #3



-K6

RSL1PRBU

In = 24VDC

Water nozzle #4



-K7

RSL1PRBU

In = 24VDC

Foam nozzle #1



-K8

RSL1PRBU

In = 24VDC

Foam nozzle #2



-M1

HC-SFS-152

P = 1500W

Turntable



-M2

HF-KP-43

P = 400W

Spray column



-M3

HF-KP-13

P = 100W

Top dryer flap



-M4

HF-KP-13

P = 100W

Bottom dryer flap



-M5

CDF8-10

P = 4kW

Water




-M8

150Bar

P = 1.5hp

Cleaning chemical




-M9

150Bar

P = 1.5hp

Wax chemical




-K14

RSL1PRBU

In = 24VDC

Chemical pump




-K13

RSL1PRBU

In = 24VDC

Dryer on/off




-K12

RSL1PRBU

In = 24VDC

Wax line




-K11

RSL1PRBU

In = 24VDC

Wash line




-K10

RSL1PRBU

In = 24VDC

Foam nozzle #4



-K9

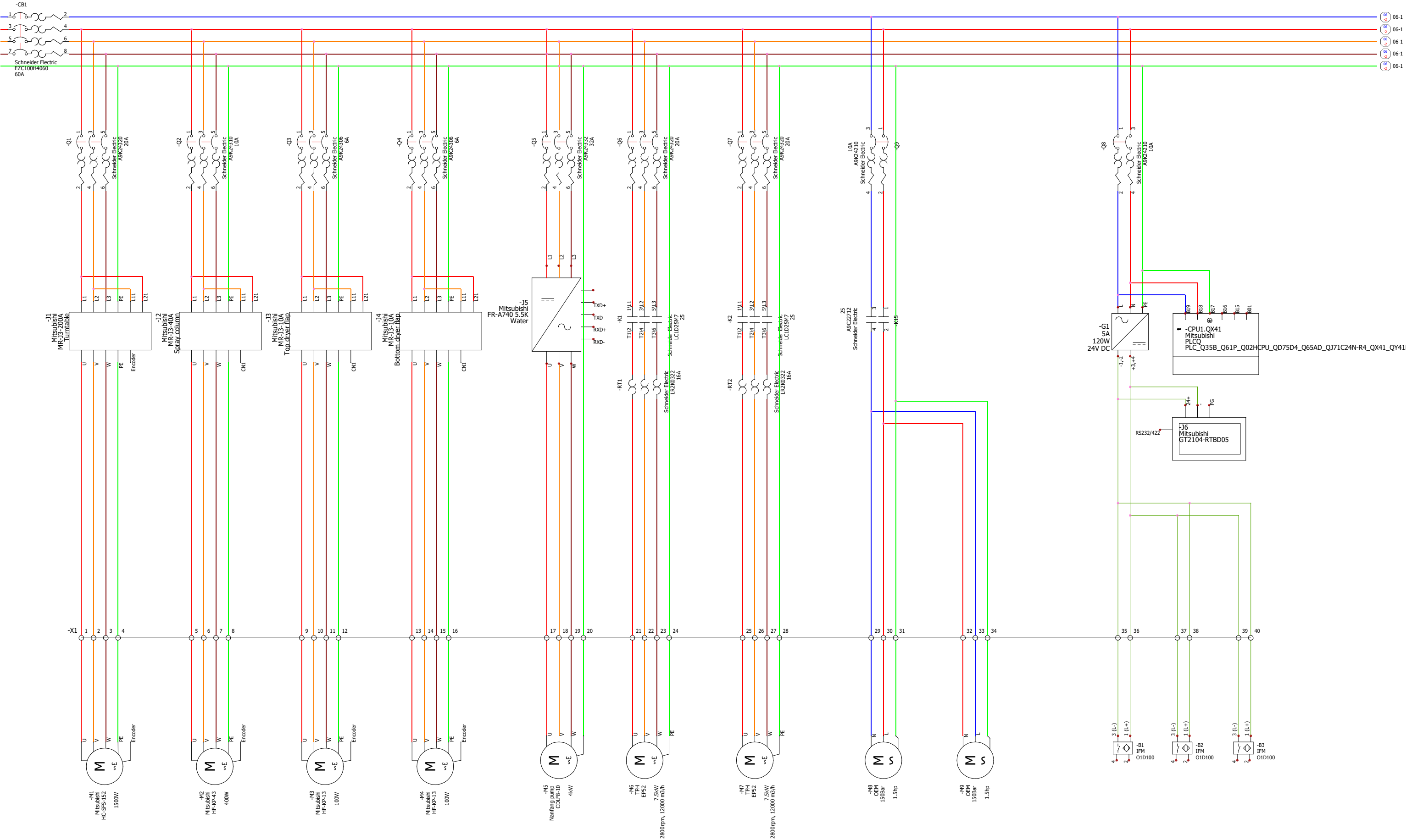
RSL1PRBU

In = 24VDC

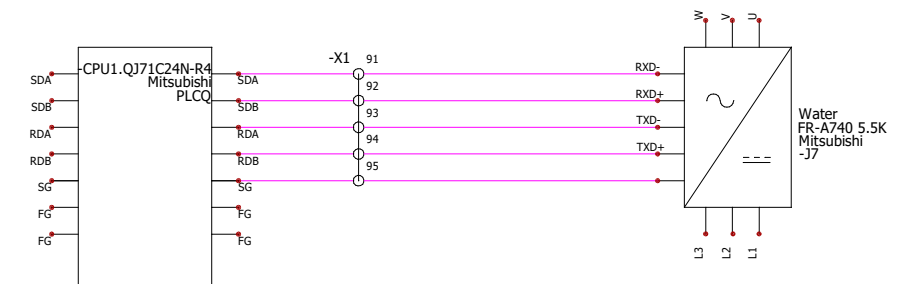
Foam nozzle #3



1/4/2026			
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REV.	DATE	NAME	CHANGES
Turntable carwash			
Turntable carwash			
Document book			
Open Hardware Community		Single Line	REVISION
		+L1	0
CONTRACT :			DRAWING
longphan@ieee.org			03
			02 04



1/4/2026			
0	12/2/2025	long	
REV.	DATE	NAME	CHANGES
Turntable carwash Document book			
Open Hardware Community		Power +L1	REVISION 0
CONTRACT : longphan@ieee.org			DRAWING 04 03 05



				1/4/2026
0	12/3/2025	long		
REV.	DATE	NAME	CHANGES	
Turntable carwash Turntable carwash Document book				
Open Hardware Community			QD75D4 control +L1	REVISION 0
			CONTRACT : longphan@ieee.org	DRAWING 05



ASCO

	Reference	Mark	Description	Quantity
1	SCG238C020	-V1, -V2, -V3, -V4	ASCO G1 1/2 Solenoid Valves	4

IFM

	Reference	Mark	Description	Quantity
1	O1D100	-B1, -B2, -B3	Laser distance sensor	3

Mitsubishi

	Reference	Mark	Description	Quantity
1	FR-A740 5.5K	-J5, -J7	FR A740 Inverter	2
2	GT2104-RTBD05	<a href="#">-J6</a>	HMI 4.3 inch	1
3	HC-SFS-152	<a href="#">-M1</a>	Servo Mitsubishi 1.5kW	1
4	HF-KP-13	-M3, -M4	Servo Mitsubishi 100W	2
5	HF-KP-43	<a href="#">-M2</a>	Servo Mitsubishi 400W	1
6	MR-J3-10A	-J3, -J4	AC Servos-MELSERVO 100W	2
7	MR-J3-40A	<a href="#">-J2</a>	AC Servos-MELSERVO 400W	1
8	MR-J3-200A	<a href="#">-J1</a>	AC Servos-MELSERVO 2kW	1
9	PLCQ	<a href="#">-CPU1</a>	PLC Q Q02HCPU QD75D4 Q65AD QJ71C24N-R4 QX41 QY41P	1

Nanfeng pump

	Reference	Mark	Description	Quantity
1	CDLF8-10	<a href="#">-M5</a>		1

OEM

	Reference	Mark	Description	Quantity
1	150Bar	-M8, -M9	150bar carwash pump	2

Omron

	Reference	Mark	Description	Quantity
1	V-155-1A5	-S2, -S3, -S4	Snap Action Switches	3

Schneider Electric

	Reference	Mark	Description	Quantity
1	A9C22712	<a href="#">-K15</a>	iCT 16A 2NO 230...240V 50Hz contactor	1
2	A9K24210	-Q8, -Q9	CP 10 A, 2P	2
3	A9K24306	-Q3, -Q4	CP 6 A, 3P	2

Long Phan		Document book						REVISION 0 <hr/> SCHEME 07
				0	1/4/2026	long		
				REV.	DATE	NAME	CHANGES	
CONTRACT: longphan@ieee.org		LOCATION: +L1		Main electrical closet				

-> Schneider Electric

	Reference	Mark	Description	Quantity
4	A9K24310	-Q2	CP 10 A, 3P	1
5	A9K24320	-Q1, -Q6, -Q7	CP 20 A, 3P	3
6	A9K24332	-Q5	CP 32 A, 3P	1
7	AB1AA235U4GR	-X1		1
8	ABLS1A24050E	-G1	Single phase power supply, 100 to 240V AC input, 24V DC output, 120W	1
9	EZC100H4060	-CB1	Circuit breaker, 60A ,4 poles	1
10	LC1D25M7	-K1, -K2	Contacteur, 3P(3 NO), AC-3/AC-3e, <=400V, 25A, 240V AC coil	2
11	LR2K0322	-RT1, -RT2	Thermal overload relay, TeSys K, 12...16A	2
12	RSL1PRBU	-K3, -K4, -K5, -K6, -K7, -K8, -K9, -K10, -K11, -K12, -K13, -K14	Slim interface relay	12
13	XB2BA11C	-S8, -S9	Push button	2
14	XB2BA3341C	-S6, -S7	Push button with arrow	2
15	XB2BD21C	-S5	Switch	1
16	XB2BS8442C	-S1	Emergency stop	1

SGTD

	Reference	Mark	Description	Quantity
1	GSPG-06	-Z1, -Z2, -Z3, -Z4, -Z5, -Z6	150Bar GSPG-06 2 Way High Pressure Solenoid Valve 1/4"	6

TPH

	Reference	Mark	Description	Quantity
1	EP52	-M6, -M7	10HP 2800RPM 12000 m3/h	2

Long Phan	Document book					REVISION 0 SCHEME 08
		0	1/4/2026	long		
		REV.	DATE	NAME	CHANGES	
CONTRACT: longphan@ieee.org	LOCATION: +L1 Main electrical closet					