Preface

Thank you for purchasing the MDDPM series integrated door machine controller.

The DQ series integrated door machine controller is a variable frequency controller specialized for driving the door machine system such as elevator door, cold storage door, and subway door.

It integrates door open/close logic control and motor drive, and implements control on the entire door system with door open/close commands from the external system. The MDDPM can drive the permanent magnet motor (PM), and supports two control modes, speed control and distance control. Applicable to various applications, it can meet drive and control requirements of most door systems.

This manual describes correct use of the MDDPM, including product features, safety information and precautions, installation, parameter setting, commissioning, and troubleshooting. Read and understand the manual before using the product, and keep it carefully for future reference and maintenance.

Notes

- The drawings in the manual are sometimes shown without cover or protective guard.
 Remember to install the cover or protective guard as specified first, and then perform operations in accordance with the instructions.
- The drawings in the manual are shown for description only and may not match the product that you have purchased.
- The instructions are subject to change due to product upgrade, specification modification, as Well as the efforts to increase the accuracy and convenience of the manual.
- Contact our regional agent or customer service center if the manual delivered is lost or damaged.
- Contact our customer service center if you have problems during the use.
 Email:mabarasales@gmail.com

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User Guide

DQ Door Drive With Motor

Integrated Door Operated Controller



MABARA

Date: 03-11-2025

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Safety Information and Precautions

Safety Information and Precautions

In this manual, the notices are graded based on the degree of danger:

- DANGER indicates that severe personal injury or even death may result due to improper operation.
- CAUTION indicates that personal injury or equipment damage may result due to improper operation.

Read the following safety notices carefully so that you understand how to install, commission, operate and maintain the equipment. Mabara assumes no liability or responsibility for any injury or loss caused by improper operation of the equipment described in the manual.

Safety Information

■ Before installation

DANGER

- Do not install the equipment if you find the controller damaged upon unpacking.
- Do not install the equipment if the packing list does not confirm to the product you receive.

CAUTION

- Do not install the equipment if you find the controller damaged upon unpacking.
- Do not install the equipment if the packing list does not confirm to the product you receive.

During installation

DANGER

- Do not Mount the controller on combustible surface such as metal. Keep it far away from flammable materials. Failure to comply may result in a fire.
- Do not loosen the fixed screws of the components, especially the screws with red mark.

CAUTION

- Do not drop wire end or screw into the controller. Otherwise, the controller may be damaged.
- Install the controller in locations free from vibration, direct sunlight, rain, water and moisture etc.

At wiring

DANGER

- Wiring must be performed only by qualified personnel under instructions described in this manual. Failure to comply may result in unexpected accidents.
- A circuit breaker must be used to isolate the power supply and the controller. Failure to comply May result in a fire.
- Tie the controller to ground properly according to the standard. Failure to comply may result in electric shock.

DANGER

- Never connect the power cables to the output terminals (U,V,W) of the controller. Pay attention to the marks of the wiring terminals and ensure correct wiring. Failure to comply will result in damage to the controller.
- Ensure that the cabling satisfies the EMC requirements and the local codes. Use wire sizes recommended in the manual. Failure to comply may result in accidents.
- Use the shielded cable for the encoder, and ensure that the shield is reliably grounded at one end.
- Use a twisted cable with twisted distance of 20–30mm as the communication cable, and ensure that the shield is reliably grounded.

■ Before Power - ON

DANGER

• Check that the following requirements are met:

The voltage class of the power supply is consistent with the rated voltage class of the controller. The input terminals (L, N) and output terminals (U, V, W) are correctly connected.

No short circuit exists in the peripheral circuit. The wiring is secured.

Failure to comply will result in damage to the controller.

• For the PM, ensure that motor auto-tuning is performed before running for the first time.

Failure to comply may result in motor run away.

• Do not perform the voltage resistance test on any part of the controller because such test has been done in the factory. Failure to comply will result in accidents.

DANGER

- Do not touch the rotating part of the motor during the motor auto-tuning or running. Failure to comply may result in personal injury.
- · Do not change the factory parameters. Otherwise, the equipment may be damaged.

■ After Power - ON

DANGER

- Do not open the cover of the controller after power-on. Failure to comply may result in electric shock.
- Do not touch any input or output terminal of the controller with hands. Failure to comply may result in electric shock.

DANGER

- Do not touch the rotating part of the motor during the motor auto-tuning or running. Failure to comply may result in personal injury.
- Do not change the factory parameters. Otherwise, the equipment may be damaged.

During running

DANGER

- Do not touch the fan or the discharging resistor to check the temperature. Otherwise, you may get
- Signal detection must be performed only by qualified personnel during operation. Failure to comply will result in personal injury or damage to the controller.

DANGER

- Avoid objects falling into the controller when it is running. Failure to comply will result in damage to the controller
- Do not start/stop the controller by opening or closing the contactor. Failure to comply will result in damage to the controller.

■ During maintenance

DANGER

- Do not repair or maintain the controller at power-on. Failure to comply will result in electric shock.
- Repair or maintenance of the controller must be performed only by qualified personnel.
- Otherwise, personal injury or equipment damage may result.
- Set the parameters again after the controller is replaced. All the pluggable components must be plugged or removed only after power-off.

Precautions

1. Motor Insulation Test

Perform an insulation test on the motor under the following conditions:

- Before the motor is used for the first time
- When the motor is reused after being stored for a longtime
- During periodic inspection

This is to prevent the poor insulation of motor windings from damaging the controller. The motor must be disconnected from the controller during the insulation test. A 500-volt megameter is recommended for this test, and the insulation resistance must not be less than $5~\mathrm{M}\Omega$.

2. Motor Heat and Noise

The output of the controller is pulse width modulation (PWM) wave with certain harmonic wave, and therefore, the motor temperature rise, noise, and vibration are slightly greater than those at running with the mains frequency.

3. Voltage-sensitive device or capacitor on the output side of the controller

The controller outputs PWM voltage, and therefore, do not install the capacitor for improving power factor or lightning protection voltage-sensitive resistor on the output side of the controller. Otherwise, the controller may suffer transient overcurrent or even be damaged.

4. Apply rated voltage

The controller must not be used outside the allowable voltage range specified in this manual. Otherwise, components inside the controller may be damaged. If required, use a corresponding voltage step-up or step-down device to match the power voltage to the rated voltage range for the controller.

5. Surge Suppressor

The controller has a built-in varistor for suppressing the surge voltage generated when the inductive loads (electromagnetic contactor, electromagnetic relay, solenoid valve, electromagnetic coil and electromagnetic brake) around the controller are switched on or off. If the inductive loads generate very high surge voltage, use a surge suppressor for the inductive load or use a surge suppressor together with a diode.

NOTE

Do not connect the surge suppressor to the output side of the controller.

1. Altitude and De-rating

In places where the altitude is above 1000m and the cooling effect reduces due to thin air, it is necessary to de-rate the controller. Contact Mabara for technical support.

2. Disposal

The electrolytic capacitors in the main circuit and PCB board may explode when they are burnt. Poisonous gases generated when the plastic parts are burnt. Treat them as ordinary industrial waste.

3. Adaptable Motor

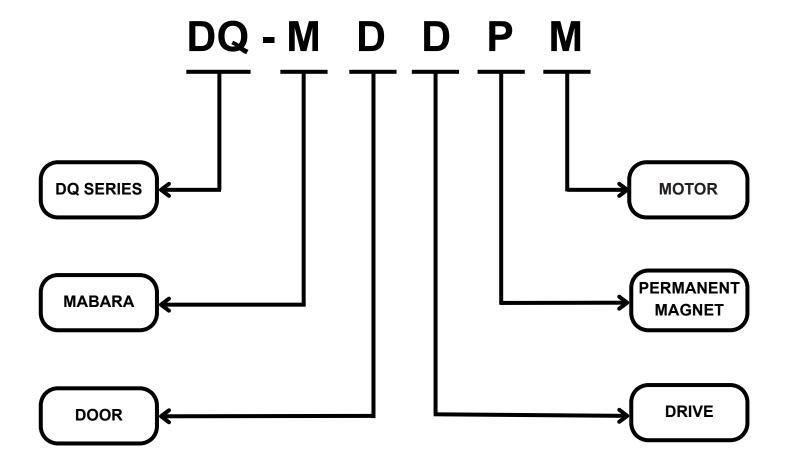
- This Drive is designed to operate permanent magnet (PM) motor of mentioned rating. Select the proper Drive model according to the motor type and ratings.
- To reach better control result, perform motor auto-tuning based on actual conditions. For a PM, motor auto-tuning is mandatory.
- The controller might alarm or be damaged when a short circuit exists on cables or inside the motor. Therefore, perform the insulation short circuit test when the motor and cables are newly installed or during routine maintenance. During the test, disconnect the controller from the tested part.
- Main Frequency 45 to 55Hz.

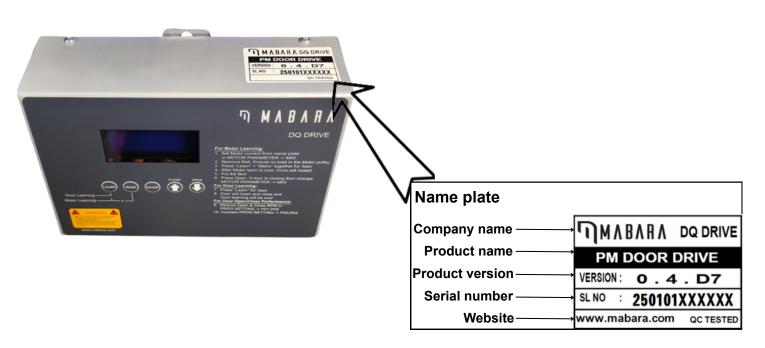
Product information

PRODUCT INFORMATION

2.1 DESIGNATION RULES AND NAME PLATE

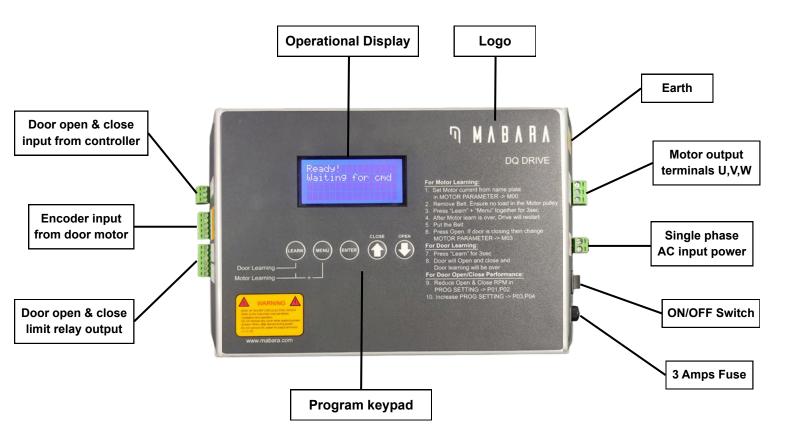
Figure 2-1 Designation rules and name plate of the MDDPM - DQ DRIVE





2.2 STRUCTURE

Figure 2-2 Structure of the MDDPM - DQ DRIVE



2.3 DQ DRIVE MODEL:

Table 2-1 DQ DRIVE MODEL:

Model	Input Voltage	Power Capacity (kVA)	Input Current (A)	Output Current (A)	Motor Rating (W)
MABARA DQ	SINGLE PHASE 220V (-15% TO 20%)	1	5.4	2.3	400

2.4 General Specifications

It	tem	Specifications
	Maximum output frequency	300Hz
	Speed range	300RPM
	Speed stability	1%
Basic specifications	Start up torque	3NM
	Frequency resolution	0.1Hz
	Current resolution	0.1A
	Carrier frequency	14khz Center aligned PWM
		Automatic motor learning, initial rotor position detection
		Automatic door learning
Major	functions	Intelligent torque adjustment
iviajoi 	TUTICUOTIS	Neutral open - 400v no failure
		Auto brake of motor after power fail
		Multiple S curve option
Protection	on functions	Over voltage, under voltage, over current, short circuit
		Over temperature

Chapter 2.5 Advantages of DQ drive

DQ door drive is the most advanced elevator door drive with inbuilt artificial intelligence which adjusts the parameters automatically based on the motor and door conditions and reduces 90% of your tuning efforts.

- DQ drive is equipped with 4 lines wide display that helps in e-documentation, parameter description, error detailing and recovery documentation, etc.
- Advanced rotor position estimation which greatly minimizes the load during ARD operations.
- Motor learning algorithm helps you to run the drive even for a motor with unknown details. Drive automatically detects the poles and encoder counts.
- The intelligent algorithm reduces the motor's heat at the long open and close end as low as 50% compared to other competitor's drives.
- Implemented with the world's first self-tuning algorithm that can automatically adjust its speed and torque s-curve based on the door header's inertia and door friction.
- Drive is designed to with stand 400v in case of neutral open which is common in 3
 phase. Such design robustness is possible due to our long years of R & D experience.
- Integrated with standard protections during over-voltage, under-voltage cut-off, output short circuit, etc.
- Anti-pinch parameter setting helps to fine-tune the torque and door press during the sensor operation (sudden door open request while closing).
- Assured installation of door drive tuning in just less than 10mins. (user just needs to know how to operate the program keys)
- Users need not bother about the u-v-w sequence of the motor and a-b of the encoder.
 Any sequence will be automatically adapted by the DQ drive.

Electrical installation

Chapter 3 Electrical Installation

3.1 Installation Environment

Item	Requirement	
Ambient temperature	10 to 55 Deg C	
Heat Dissipation Mount the controller on the surface of incombustible objects Sufficient room for heat dissipation. Install the controller base with the screws vertically.		
	Free from direct sunlight, high humidity and condensation	
Mounting location	Free from corrosive, explosive and combustible gas	
	Free from oil dirt, dust and metal powder	

3.2 Electrical Installation

Wiring and Description of Main Circuit Terminals

Figure 3 – 5 Main circuit terminal arrangement

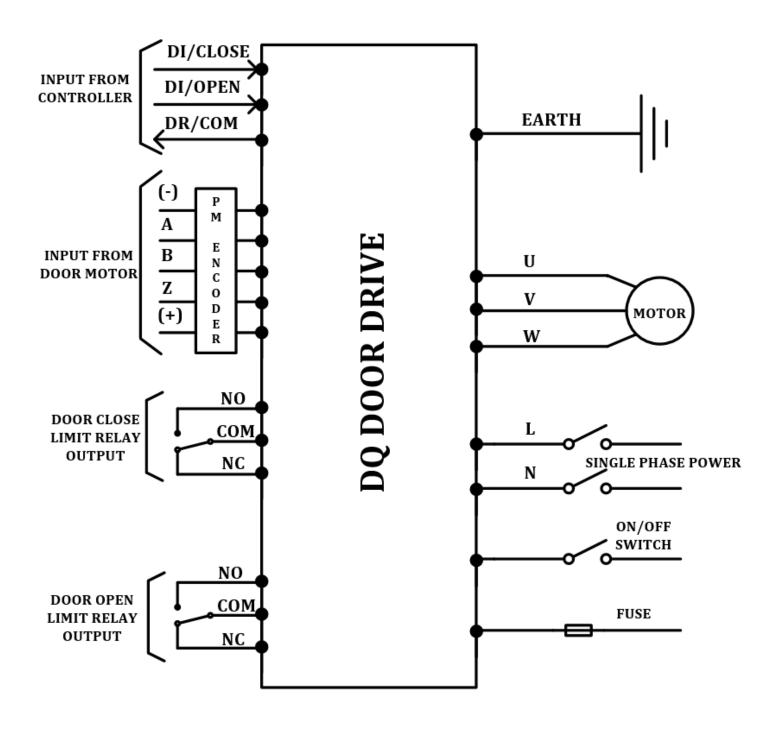


Figure 3 – 6 Main circuit terminal arrangement

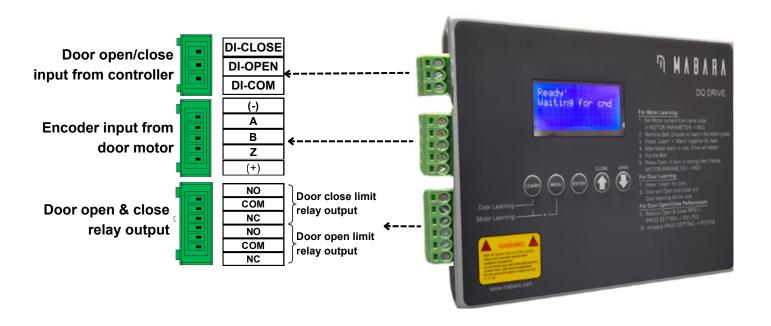


Figure 3 – 7 Main circuit terminal arrangement

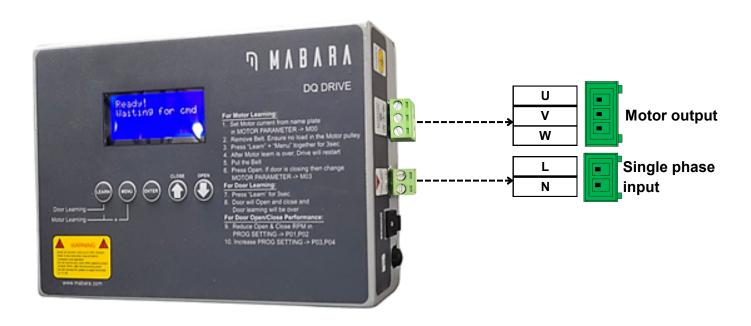


Table 3-1 Main circuit terminal description

Terminal	Name	Description
L, N	Single-phase powering input terminals	Provide single-phase 220VAC power supply.
U,V,W	Controller output terminals	Connect the three-phase to motor.
=	Earth	Grounding terminal - Must be grounded.
DI CLOSE DI OPEN DRCOM	DI CLOSE/DI OPEN/DR COM	Input from controller
- A,B,Z +	PM ENCODER	Input from Door Motor
NO,COM,NC	RELAY OUTPUT	Door close limit relay output
NO,COM,NC	RELAY OUTPUT	Door open limit relay output
ON/OFF SWITCH	SWITCH	Switch for power on/off.
FUSE	FUSE	3A FUSE

Check the below instructions before power-on to ensure device and personal safety:

- 1. The wiring is performed according to the instructions.
- 2. All switches act reliably.
- 3. Check the inter-phase resistance of the main circuit to ensure that there is no short circuit to ground.
- 4. The mechanical installation is proper.

Connections:

- · Connect the 2 pin connector (L,N) to 220V AC single phase power supply and connect the earth wire (Motor Earth & Drive Earth).
- · Connect the U,V,W door motor wires to the drive output.
- · Connect the motor encoder to the 5 pin connector in the drive (- A,B,Z+).
- · Manually open the car door to 50%.
- · Switch on the power.
- · Display should show "READY".

Note:

- 1.During motor learning, make sure the motor belt is removed.
- 2. Verify that proper earthing is provided for both the motor and the drive.

Operation and Trial Running

Chapter 4 Operation and Trial Running

4.1 Operation Panel

You can modify the parameters, monitor the working status and run or stop the controller by operating the operation panel shown as below:

Figure 4-1 Operation panel diagram



1. Description of Keys on the Operation Panel

Table 4 - 2 Description of keys on the operation panel

Key	Name	Function
LEARN	Door Learning	Learning the door. Press Learn button for 3 seconds.
MENU	Menu	Menu to view the program settings.
ENTER	Confirm	Enter the menu interfaces level by level, and confirm the parameter setting.
Open	Door open	Open the door in the operation panel operation mode.
Close	Door close	Close the door in the operation panel operation mode.
LEARN + MENU	Motor Learning	Learning the motor. Press Learn & MENU button together for 3 seconds.

4.2 Basic Operations

Operation Procedure of the Operation Panel

For motor learning:

- Set the motor current from the nameplate in the motor parameter → M00 settings.
- Remove the belt and ensure there is no load on the motor pulley.
- Press the "learn" and "menu" buttons together for 3 seconds.
- After the motor learning is complete, the drive will restart.
- · Reconnect the belt.
- Press the "open" button. If the door is closing, change the motor parameter → M03 setting → 00 (or) 01

Note:

- 1. During motor learning, make sure the motor belt is removed.
- 2. Verify that proper earthing is provided for both the motor and the drive.

For door learning:

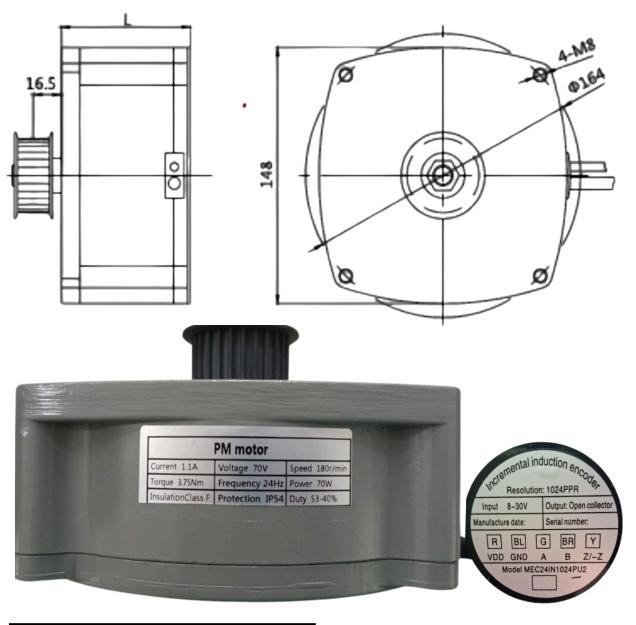
- During door learning, make sure the door is halfway open (50% open position).
- Press the "learn" button for 3 seconds.
- The door will open and close, completing the door learning process.

For door open/close performance:

- Reduce the open and close rpm in the prog setting → P01 and P02 respectively.
- Increase the open and close acceleration time in the prog setting → P03 and P04 respectively.

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4.3 PM Motor image & dimension details and specificatios



POWER	70 W
VOLTAGE	70
CURRENT	1.1 A
RPM	180r/min
FREQUENCY	24Hz
TORQUE	3.75 N.m
IP LEVEL	IP54
MOTOR POLES	16
ENCODER PULSE	1024PPR



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Function code table

Chapter 5 Function code table

Chapter 5.1 Program setting

MENU: 1/6PROGRAM SETTING					
PARAMETER	DESCRIPTION DISPLAY	600MM	700MM	800MM	900MM
P00	S-CURVE-USER	01	01	01	01
P01	OPEN RPM	150	170	180	210
P02	CLOSE RPM	140	160	180	210
P03	OPEN ACC TIME	0.25S	0.20s	0.20S	0.23S
P04	CLOSE ACC TIME	0.05S	0.20s	0.20S	0.25S
P05	FIXED ACC TIME	0.20s	0.20s	0.20s	0.23S
P06	ANTI JERK ACC TIME	0.20s	0.20s	0.20s	0.23S
P07 FIXED SPEED HZ		20.0Hz	20.0Hz	20.0Hz	14.0HZ
P08 FIXED SPEED END		2.0Hz	2.0Hz	2.0Hz	2.0Hz
P09 FIXED SPEED END 50%		50%	50%	50%	50%
P10 LEARNING HZ		10.0Hz	10.0Hz	10.0Hz	10.0Hz
P11 OPEN LOCK TORQUE		70%	70%	70%	70%
P12 CLOSE LOCK TORQUE		50%	50%	50%	50%
P13	LONG CLOSING LOCK TORQUE	05%	05%	05%	05%
P14	LOCK TIME	0.80s	0.80s	0.80s	0.80s
P15	LATCH INPUT	01	01	01	01
P16	LEARN COUNT	1454	1454	1454	1454
P17	VAC CORRECTION	220	220	220	220
P18	ALL PGG DEFAULT	00	00	00	00
P19 OPEN LMT RLY%		95	95	95	95
P20	CLOSE LMT RLY%	95	95	95	95
P21	OPEN AT POWERON	00	00	00	00
P22 TRIAL RUN COUNT		00	00	00	00

Note: To save the program, press and hold the MENU button for a long press.

Chapter 5.2 S-Curve setting

DEFAULT VAL	UES FOR DOOR CENTER OPENIN	ıG			
MENU: 2/6S-CURVE SETTING					
PARAMETER	DESCRIPTION DISPLAY	600MM	700MM	800MM	900MM
S00	OPEN START %	00%	00%	00%	00%
S01	OPEN SKATING%	08%	08%	08%	08%
S02	OPEN MIDDLE 1%	35%	35%	35%	35%
S03	OPEN MIDDLE 2%	61%	61%	61%	61%
S04	OPEN BEFORE END %	85%	95%	90%	83%
S05	OPEN END %	90%	99%	97%	100%
S06	OPEN START HZ	8.0HZ	8.0HZ	8.0HZ	8.0HZ
S07	OPEN SKATING HZ	20.0HZ	20.0HZ	20.0HZ	20.0HZ
S08	OPEN MIDDLE 1	50.0HZ	50.0HZ	50.0HZ	50.0HZ
S09	OPEN MIDDLE 2	45.0HZ	45.0HZ	45.0HZ	45.0HZ
S10	OPEN BEFORE END	10.0HZ	10.0HZ	10.0HZ	10.0HZ
S11	OPEN END HZ	0.5HZ	0.5HZ	0.5HZ	0.5HZ
S12	CLOSE START %	100%	100%	100%	100%
S13	CLOSE AFTER START %	90%	90%	90%	90%
S14	CLOSE MIDDLE 2%	70%	70%	70%	70%
S15	CLOSE MIDDLE 1%	41%	41%	41%	41%
S16	CLOSE SKATING %	14%	14%	14%	14%
S17	CLOSE END %	00%	00%	00%	00%
S18	CLOSE START HZ	10.0HZ	10.0HZ	10.0HZ	10.0HZ
S19	CLOSE AFTER START %	30.0HZ	30.0HZ	30.0HZ	30.0HZ
S20	CLOSE MIDDLE 1 HZ	50.0HZ	50.0HZ	50.0HZ	50.0HZ
S21	CLOSE MIDDLE 2 HZ	35.0HZ	35.0HZ	35.0HZ	35.0HZ
S22	CLOSE SKATING HZ	4.5HZ	4.5HZ	4.5HZ	4.5HZ
S23	CLOSE END HZ	4.0HZ	4.0HZ	4.0HZ	4.0HZ
S24	S-CURVE DEFAULT	00	00	00	00

Note: To save the program, press and hold the MENU button for a long press.

Chapter 5.3 Program motor parameter

MENU: 3/6MOTOR PARAMETER			
PARAMETER	DESCRIPTION DISPLAY DEFAULT		
M00	MOTOR CURRENT	0.80	
M01	MOTOR POLE PAIR	08	
M02	ENCODER COUNT 4095		
M03	3 OP/CL CHANGE 00		
M04	M04 OFFSET ANGLE 208		
M05 ENCODER COUNT 00		00	
M06	M06 SPEED P GAIN 250		
M07	M07 SPEED I GAIN 100		

Chapter 5.4 OBD

MENU: 4/6OBD	
OBD represents only for production purpose	

Chapter 5.5 View data

MENU: 5/6-----VIEW DATA

The View Data shows real time values for Motor and Drive like motor pulse, motor pole, etc.

Chapter 5.6 DEFAULT PROCEDURE:

- Switch ON the drive.
- Press the "MENU" button, PROG SETTINGS then press the "ENTER" button.
- Press the "UP" arrow until the program setting reaches → All PGG Default? P18:00.
- Press the " **ENTER** " button → P18 : 00 will start blinking.
- Press and hold the "UP" button until the display shows "Default done."
- Press and hold the "MENU" button for 2 seconds.
- The display will show "Memory: PGG Data Saved!!"

Note: All the frequency settings are normalized to 50Hz for ease of handling different types of motor with different operating frequency. For example 50Hz indicates as max operating output frequency (speed) which is factored based on the motor parameter. So the output frequency not necessarily should be the same as entered value in the functional settings.

Error Data & Recovery List

Chapter 6.1 Error recover list

	MAIN MENU:6/6ERROR DATA			
E-CODE	DISPLAY DESCRIPTION	EFFECT	RECOVER	
E00	High Vac	MOTOR OFF	 Auto Reset High voltage 275V AC & Recovery Voltage 265V AC Normal voltage range 175-265V AC. 	
E01	Low Vac	MOTOR OFF	 Auto Reset Low voltage 165V AC & Recovery Voltage 175V AC Normal voltage range 175-265V AC. 	
E02	High VBus	MOTOR OFF	 The drive must be turned OFF and then ON High voltage 470V AC & Recovery voltage 410V AC Normal voltage range 250-410V AC 	
E03	Low VBus	MOTOR OFF	 The drive must be turned OFF and then ON Low voltage 100V AC & Recovery voltage 250V AC Normal voltage range 250-410V AC 	
E04	Hi Current	MOTOR OFF	Check motor current (M00) 80% for 30secondsDo motor learning	
E05	Hi Temperatu	MOTOR OFF	Auto Recovery or Reset	
E06	Reserved			
E07	Reserved			
E08	Memory Error	1	Power OFF & ON issue remains, Go to the program settings in P18, set all PGG to default, and save the memory data	
E09	Reserved		•••	
E10	Reserved			
E11	Fuse Failed	MOTOR OFF	Contact the manufacturing company or forward it to the authorized service center for assistance	
E12	Key SW Error	Indication	Contact the manufacturing company or forward it to the authorized service center for assistance	
E13	UVW Short	Permanent trip	 The drive must be switched OFF and ON Check UVW wire connection Check proper earthing condition 	
E14	Reserved			
E15	Reserved			
E16	UVE Open?	MOTOR OFF	Check the UVW wire connection Check all connector Check the motor resistor Restart the drive (Power OFF/ON)	
E17	ADC Error	MOTOR OFF	Contact the manufacturing company or forward it to the authorized service center for assistance	
E18	Reserved	RESERVED		
E19	Reserved	RESERVED		
E20	S-Cur Error	S-CURVE ERROR	 The fault or error occurs due to a major mechanical fault Contact the manufacturing company or forward it to the authorized service center for assistance 	
E21	MotorParamtr	MOTOR PARAMETER	 Remove belt Do motor learning Check encoder wire connections 	
E22	Opn+cls i/p	MOTOR OFF	 If both Open and Close signals are active simultaneously, disconnect either the Open or Close wire and inspect. Check for any short circuit in the Open and Close input wires. 	

Chapter 6.2 Learning Error Details and Solutions

For motor learning error details:

E-CODE DISPLAY	DESCRIPTION	EFFECT	RECOVER
Motor Learn: Err: No A-B	ENCODER ERROR	MOTOR OFF	Check the encoder wire Check the UVW wire
Motor Learn: Err: No A-B	UVW ERROR	MOTOR OFF	Check the encoder wireCheck the UVWCheck the motor resistor
Motor Learn: Err: No Z	ENCODER ERROR	MOTOR OFF	Check the encoder Z wire
Motor Learn: Err: Z Mix to AB	ENCODER ERROR	MOTOR OFF	Check encoder A, B and Z wire

For door learning error details:

E-CODE	DISPLAY	DESCRIPTION	EFFECT	RECOVER
LE1	Open Err	LONG OPEN ERROR	MOTOR OFF	Check the motor belt for any damage or excessive stretching.
LE2	Close Err	LONG CLOSE ERROR	MOTOR OFF	Check the motor belt for any damage or excessive stretching.
LE3	OP/CL cnt error	OPEN/CLOSE CNT ERROR	MOTOR OFF	Check the encoder wire Check the UVW wire
LE4	Failed!	LEARNING PROCESS IS NOT COMPLETED	MOTOR OFF	 Do not press the Open or Close button while the learning process is in progress. If this issue occurs, press the ENTER button and repeat the learning process.

Maintenance

Chapter 7.1 Maintenance

Routine Maintenance

The influence of the ambient temperature, humidity, dust and vibration will cause the aging of the components inside the controller, which may cause potential faults or reduce the service life of the controller. Therefore, it is necessary to carry out routine and periodic maintenance.

CAUTION

The filter capacitors till has residual voltage after the power supply is cutoff. Thus do not repair or maintain the controller immediately. Wait at least 10 minutes and ensure that the bus voltage measured by multimeter is not higher than 36 V.

Routine maintenance involves checking:

- · Whether abnormal noise exists during motor running
- Whether the motor vibrates excessively
- · Whether the installation environment of the controller changes
- · Whether the cooling fan works properly
- Whether the controller overheats Routine cleaning

Involves:

- Keep the controller clean all the time.
- Remove the dust, especially metal powder on the surface of the controller, to prevent the dust from entering the controller.
- Clear the oil stain on the cooling fan of the controller.

Periodic Inspection:

Perform periodic inspection on the items that are difficult to check during running.Periodic inspection involves:

- Check and clean the air filter periodically.
- · Check whether the screws become loose.
- Check whether the controller is corroded.
- Check whether the wiring terminals have arc signs.
- Carry out the main circuit insulation test.

MABARA WARRANTY AGREEMENT

Mabara provides an 12-months free warranty to the equipment itself from the date of manufacturing for the failure or damage under normal use conditions. Within the warranty period, maintenance will be charged for the damage caused by the following reasons:

- a. Improper use or repair/modification without prior permission
- b. Fire, flood, abnormal voltage, natural disasters and secondary disasters
- c. Hardware damage caused by dropping or transportation after procurement
- d. Operations not following the user instructions
- e. Damage out of the equipment (for example, external device factors)

 The maintenance fee is charged according to the latest Maintenance Price List

of Mabara.

If there is any problem during the service, contact Mabara's agent or Mabara directly.

Mabara reserves the rights for explanation of this agreement.

www.mabara.com

For more information, visit:

- Website:
 - www.mabara.com
- Product Details:
 - https://tinyurl.com/DQ-Drive-Productdetails
- ♣ Facebook:
 - https://tinyurl.com/DQ-Drive-Facebook
- lnstagram:
 - https://tinyurl.com/DQ-Drive-Instagram
- YouTube:
 - https://tinyurl.com/DQ-Drive-Youtube

QR code:

Installation video for DQ Door Drive scan below QR code:



Address:

MABARA MANUFACTURING COMPANY MATHIKSHARA TOWER SP135, Southern Avenue Road Ambattur industrial Estate Near wavin signal Chennai-600058 Tamilnadu, India.