

INSTRUCTION MANUAL

REFRIGERATED COMPRESSED AIR DRYER

Xeroaqua GK Series

GK3103D

GK3106D

GK3108D

GK3111D

GK5103

GK5104

GK5106

Operation manual for option

- This instruction manual is for option, read together with attached manual (SM-436194-A)
- Please read this instruction manual carefully before using this product, particularly the section describing safety.
- Retain this instruction manual with the product for further consultation whenever necessary.

FEB-10

CKD Corporation

Discontinue



Safety instructions

This dryer must be operated by a person who has basic knowledge of electric, compressed air, liquid, piping, refrigerant, etc. We are not responsible for any accidents caused when a person who does not have the basic knowledge or who is not well trained installation, operation, repair, etc.

Improper operation may cause poor performance of the dryer or may cause accidents. We applied a variety of safety measures to our dryers, but improper handling of dryers could cause accidents. Thus, be sure to read and fully understand this manual before using them. "Keep this manual together with the dryer".

Caution for safety

Cautions at operation are indicated in the following two ways.



WARNING



CAUTION



WARNING

used when improper handling could kill or seriously harm operators



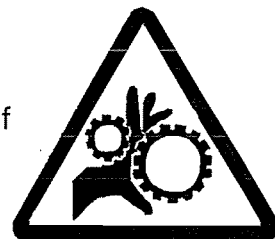
CAUTION

used when improper handling could harm operators or damage objects



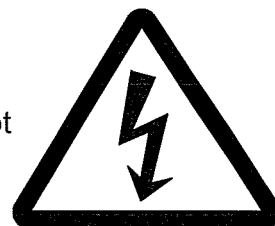
CAUTION: Being caught in the machine

- ★ The fan may start rotating suddenly and may be harmful. Do not put your hands or objects into the fan area.
- Be sure to turn off the power before inspection.



WARNING: ELECTRICAL SHOCK

- ★ Power supply terminal box, switches, etc. may cause you electrical shock.
- Be sure to turn off the power before inspection. Do not operate the dryer with your wet hands.



WARNING: HIGH PRESSURE AIR

- ★ If compressed air remains, air will blow off, and may cause injury.
- Because to extract compressed air in checking.



This dryer is industrial. Be sure to fully attend to using the dryer.

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1. Introduction

Thank you very much for purchasing CKD Product.

This manual explains basic points of installation, operation, etc. to have our refrigerated air dryer, Xeroaqua GK Series perform at their best. Be sure to read this manual before using your dryer.

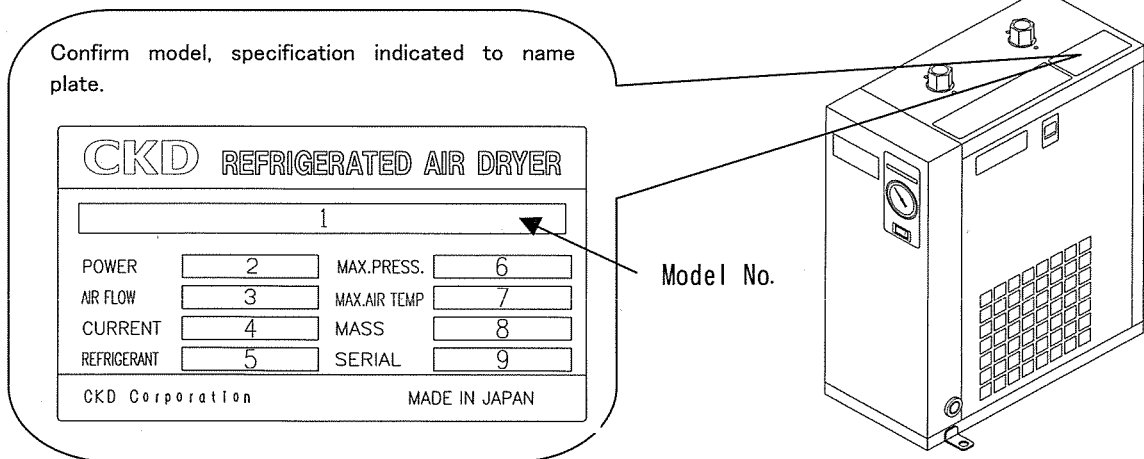
Keep this manual together with the dryer.

In addition, the end of attached standard instruction manual(SM-387101-A) is warranty, you write down model name, serial No., manufacture number, purchase date, beginning of using date, and sales shop name, and keep it carefully not to lose.

2. Installation

2.1 Confirm the following.

- 1) Check the name plate, whether model, voltage, and frequency correct.



- (2) POWER...operating voltage
- (3) AIR FLOW...flow late
- (4) CURRENT...operating current
- (5) REFRIGERANT...refrigerant type &mass
- (6) MAX.PRESS...max. inlet air pressure
- (7) MAX.AIR TEMP...max. inlet air temperature
- (8) MASS...mass
- (9) SERIAL No...serial number

- 2) Option mark

G K O O O O - O - A C O O O V

- ↓
- H : English documentations
 - H 3 : Temporarily export packing
 - M 1 : Operation signal output
 - N 1 : Copper tube rust proof coating

Indicate options in alphabetic order. (Example) HM1, H3M1

⚠ 【Caution】 If the contents are not clear or there are any questions, contact CKD or distributors before using the dryer.

2.2 Electrical wiring

Electrical wiring of option H and H3 are same as a standard.

Refer to the attached standard instruction manual(SM-436194-A).

In addition, electrical wiring of power supply line and earth line of the option M1 are same as standard, but refer to item 3 about signal wiring.

3. Option

3.1 English documentation (Option mark : H)

This option provides the nameplates and instruction manuals written in English.

3.2 Temporarily export packing (Option mark : H3)

- It becomes packing for export using wood.
In addition, rust-proof processing by the barrier packing etc. is not been performed.
- Name plates and instruction manual serve as English.

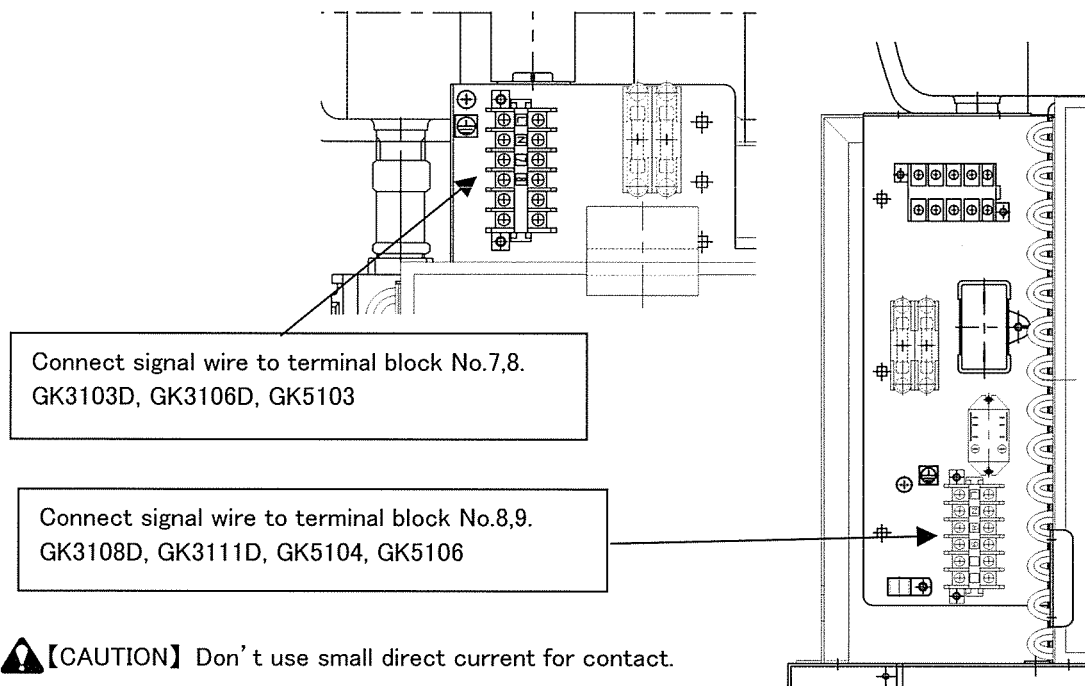
3.3 Operation signal output (Option mark : M1)

Operation signal is outputted.

Operation signal: non voltage, a contact (running: close)

Contact capacity: AC220V,5A/DC24V,5A resistance load.

When remote control would be needed, start-stop switch with lamp switch on and control by main power.



3.4 Copper tube rust proof coating (Option mark : N1)

This option provides painting on copper pipes to improve corrosion resisting performance.

4. Dimensions

Outside dimensions are same as a standard.

Refer to the attached standard instruction manual(SM-436194-A).

5. Circuit diagram

GK3103D-□-AC100V (□ : Option mark)

Please mark (/) the option mark.

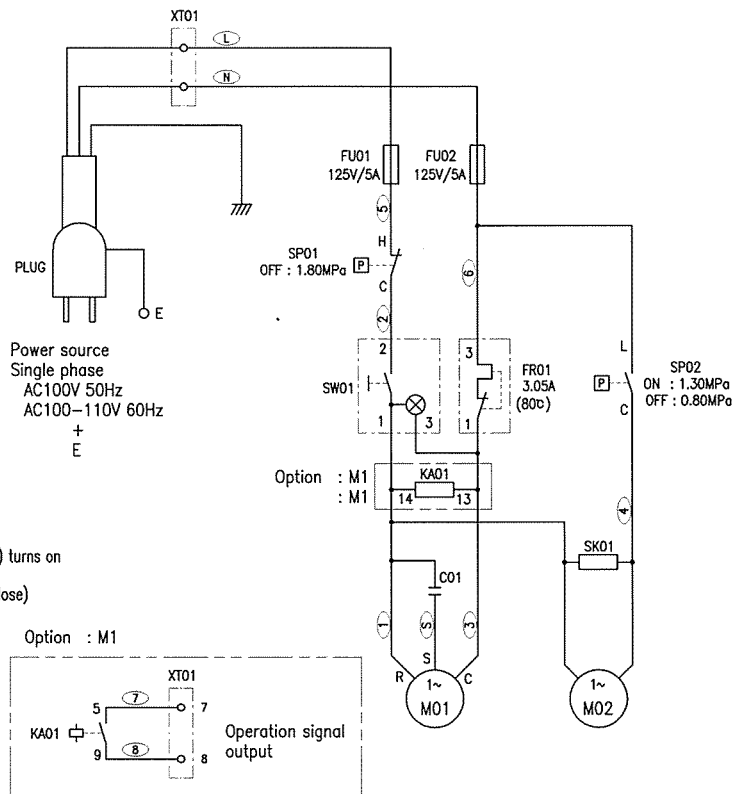
Option classification	
☐ H	English documentation
☐ H3	Temporarily export packing
☐ M1	Operation signal output
☐ N1	Copper tube rust-proof

M01 : Compressor
 M02 : Fan motor
 C01 : Run capacitor
 FR01 : Over load protector
 FU01 : Fuse
 FU02 : Fuse
 SK01 : Surge absorber
 SP01 : High pressure switch (manual reset)
 SP02 : Fan control switch
 SW01 : Start-stop switch (with lamp)
 XT01 : Terminal block
 PLUG : Plug cord (with earth wire)
 KA01 : Relay

Note

1.<Option : M1>

- When remote operation would be needed, start-stop switch (SW01) turns on and control by power source.
- Operation signal output : non voltage a-contact (running : 7-8 close)
- Contact capacity : AC220V,5A/DC24V,5A resistance load
- Don't use small direct current for contact.



GK3103D-□-AC200V (□ : Option mark)

Please mark (/) the option mark.

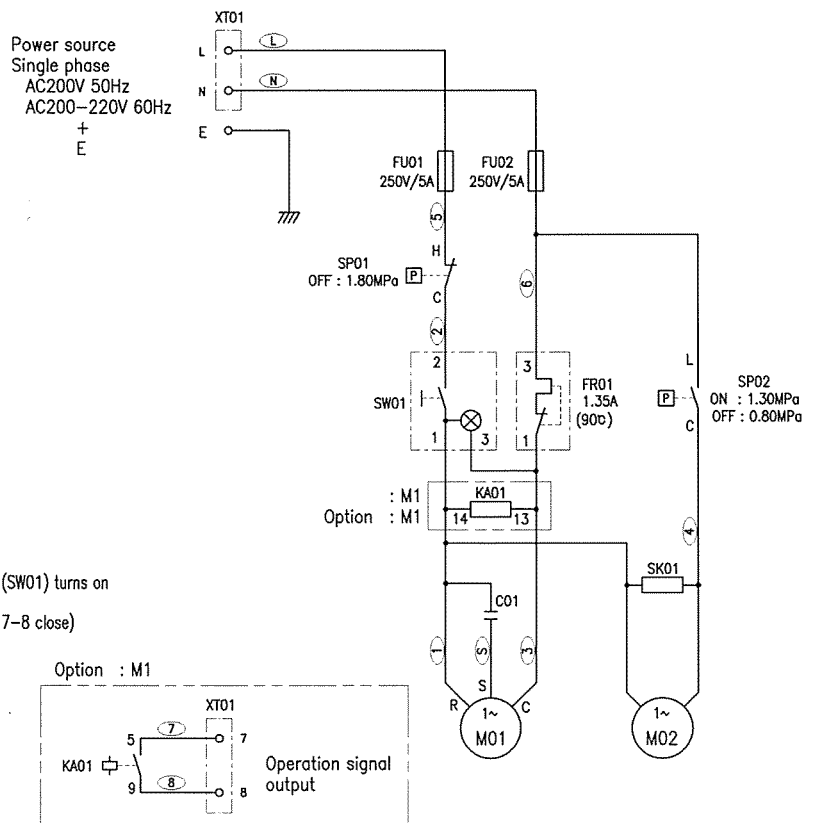
Option classification	
☐ H	English documentation
☐ H3	Temporarily export packing
☐ M1	Operation signal output
☐ N1	Copper tube rust-proof

M01 : Compressor
 M02 : Fan motor
 C01 : Run capacitor
 FR01 : Over load protector
 FU01 : Fuse
 FU02 : Fuse
 SK01 : Surge absorber
 SP01 : High pressure switch (manual reset)
 SP02 : Fan control switch
 SW01 : Start-stop switch (with lamp)
 XT01 : Terminal block
 PLUG : Plug cord (with earth wire)
 KA01 : Relay

Note

1.<Option : M1>

- When remote operation would be needed, start-stop switch (SW01) turns on and control by power source.
- Operation signal output : non voltage a-contact (running : 7-8 close)
- Contact capacity : AC220V,5A/DC24V,5A resistance load
- Don't use small direct current for contact.



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GK3106D-□-AC100V (□ : Option mark)

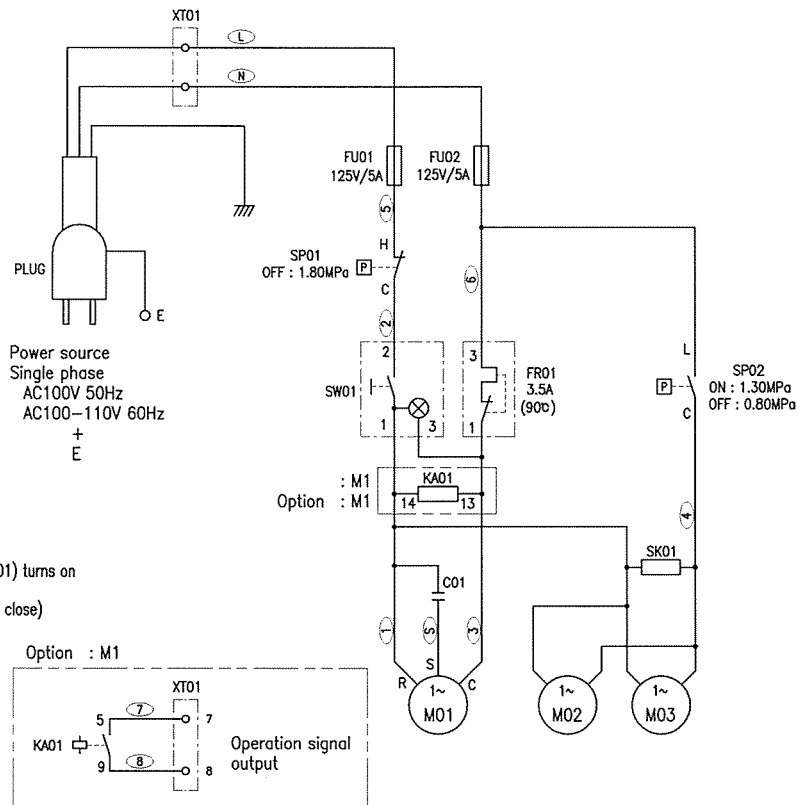
Please mark (/) the option mark.

Option classification	
☐ H	English documentation
☐ H3	Temporarily export packing
☐ M1	Operation signal output
☐ N1	Copper tube rust-proof

M01 : Compressor
 M02 : Fan motor
 M03 : Fan motor
 C01 : Run capacitor
 FR01 : Over load protector
 FU01 : Fuse
 FU02 : Fuse
 SK01 : Surge absorber
 SP01 : High pressure switch (manual reset)
 SP02 : Fan control switch
 SW01 : Start-stop switch (with lamp)
 XT01 : Terminal block
 PLUG : Plug cord (with earth wire)
 KA01 : Relay

Note

- 1.<Option : M1>
- When remote operation would be needed, start-stop switch (SW01) turns on and control by power source.
 - Operation signal output : non voltage a-contact (running : 7-8 close)
 - Contact capacity : AC220V, 5A/DC24V, 5A resistance load
 - Don't use small direct current for contact.



GK3106D-□-AC200V (□ : Option mark)

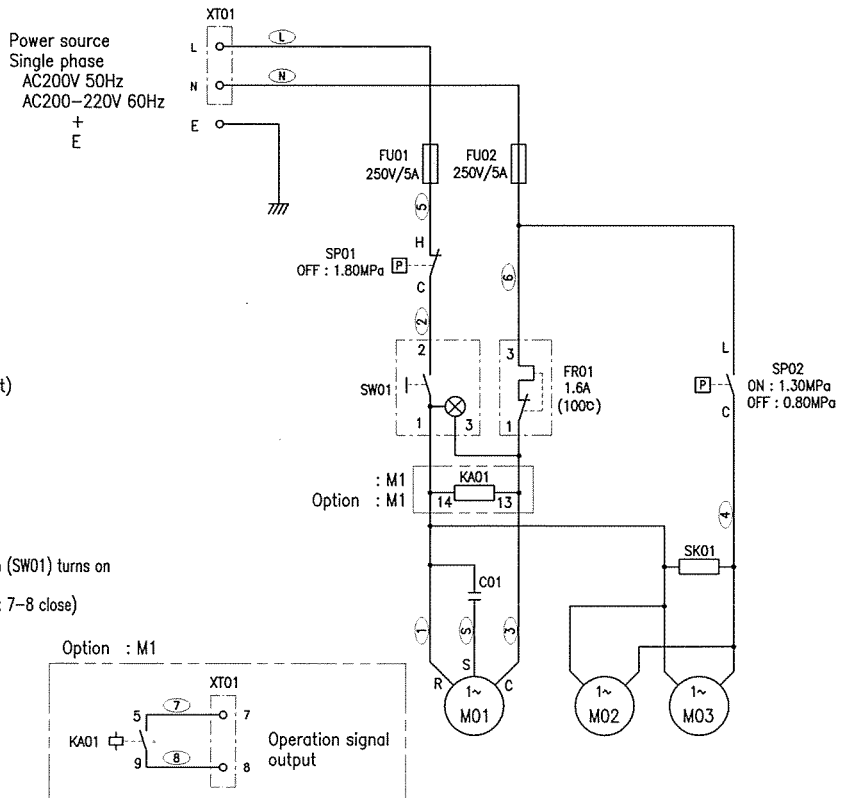
Please mark (/) the option mark.

Option classification	
☐ H	English documentation
☐ H3	Temporarily export packing
☐ M1	Operation signal output
☐ N1	Copper tube rust-proof

M01 : Compressor
 M02 : Fan motor
 M03 : Fan motor
 C01 : Run capacitor
 FR01 : Over load protector
 FU01 : Fuse
 FU02 : Fuse
 SK01 : Surge absorber
 SP01 : High pressure switch (manual reset)
 SP02 : Fan control switch
 SW01 : Start-stop switch (with lamp)
 XT01 : Terminal block
 PLUG : Plug cord (with earth wire)
 KA01 : Relay

Note

- 1.<Option : M1>
- When remote operation would be needed, start-stop switch (SW01) turns on and control by power source.
 - Operation signal output : non voltage a-contact (running : 7-8 close)
 - Contact capacity : AC220V, 5A/DC24V, 5A resistance load
 - Don't use small direct current for contact.



Discontinue

GK3108D-□-AC100V (□ : Option mark)

Please mark (/) the option mark.

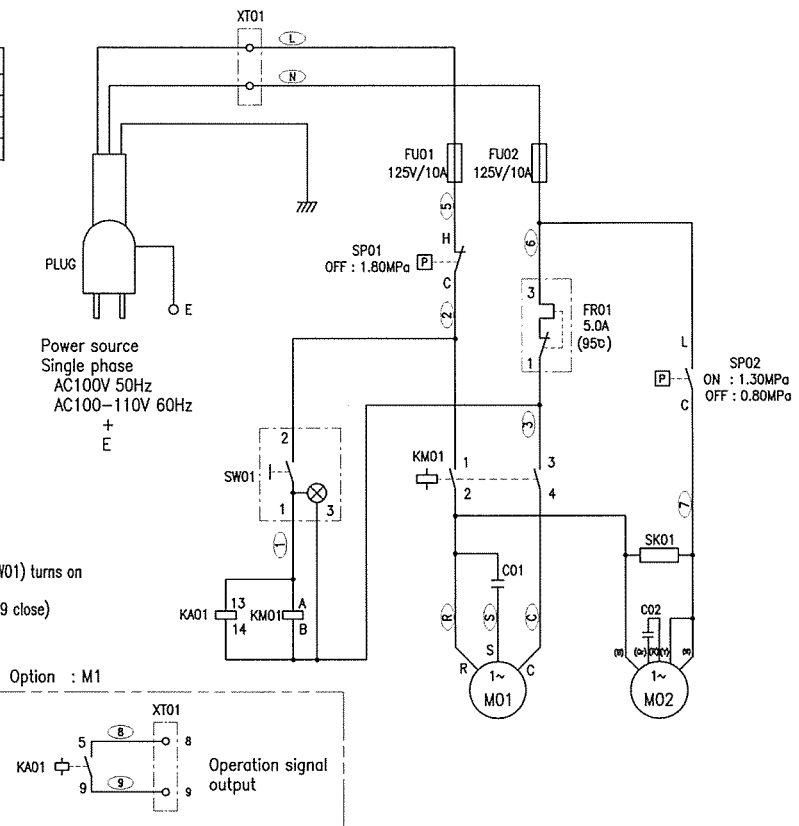
Option classification	
☐ H :	English documentation
☐ H3 :	Temporarily export packing
☐ M1 :	Operation signal output
☐ N1 :	Product photo

M01 : Compressor
 M02 : Fan motor
 C01 : Run capacitor
 C02 : Run capacitor
 FR01 : Over load protector
 FU01 : Fuse
 FU02 : Fuse
 SK01 : Surge absorber
 SP01 : High pressure switch (manual reset)
 SP02 : Fan control switch
 KM01 : Electromagnetic contactor
 SW01 : Start-stop switch (with lamp)
 XT01 : Terminal block
 KA01 : Relay

Note

1.<Option : M1>

- When remote operation would be needed, start-stop switch (SW01) turns on and control by power source.
- Operation signal output : non voltage a-contact (running : 8-9 close)
- Contact capacity : AC220V,5A/DC24V,5A resistance load
- Don't use small direct current for contact.



GK3108D-□-AC200V (□ : Option mark)

Please mark (/) the option mark.

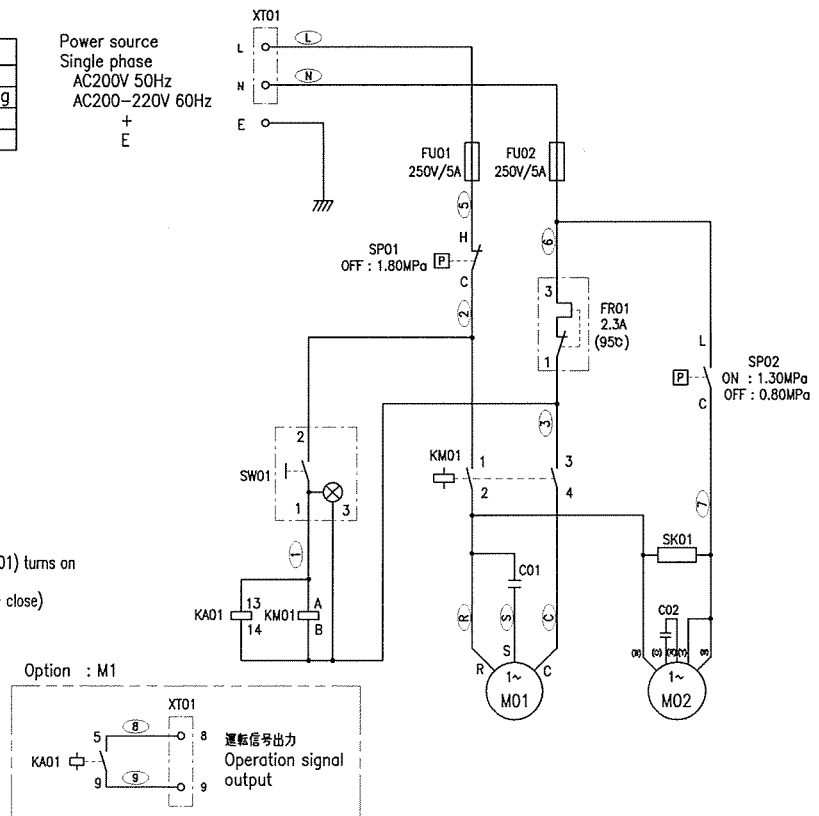
Option classification	
☐ H :	English documentation
☐ H3 :	Temporarily export packing
☐ M1 :	Operation signal output
☐ N1 :	Product photo

M01 : Compressor
 M02 : Fan motor
 C01 : Run capacitor
 C02 : Run capacitor
 FR01 : Over load protector
 FU01 : Fuse
 FU02 : Fuse
 SK01 : Surge absorber
 SP01 : High pressure switch (manual reset)
 SP02 : Fan control switch
 KM01 : Electromagnetic contactor
 SW01 : Start-stop switch (with lamp)
 XT01 : Terminal block
 KA01 : Relay

Note

1.<Option : M1>

- When remote operation would be needed, start-stop switch (SW01) turns on and control by power source.
- Operation signal output : non voltage a-contact (running : 8-9 close)
- Contact capacity : AC220V,5A/DC24V,5A resistance load
- Don't use small direct current for contact.



Discontinue

GK3111D-□-AC100V (□ : Option mark)

Please mark (/) the option mark.

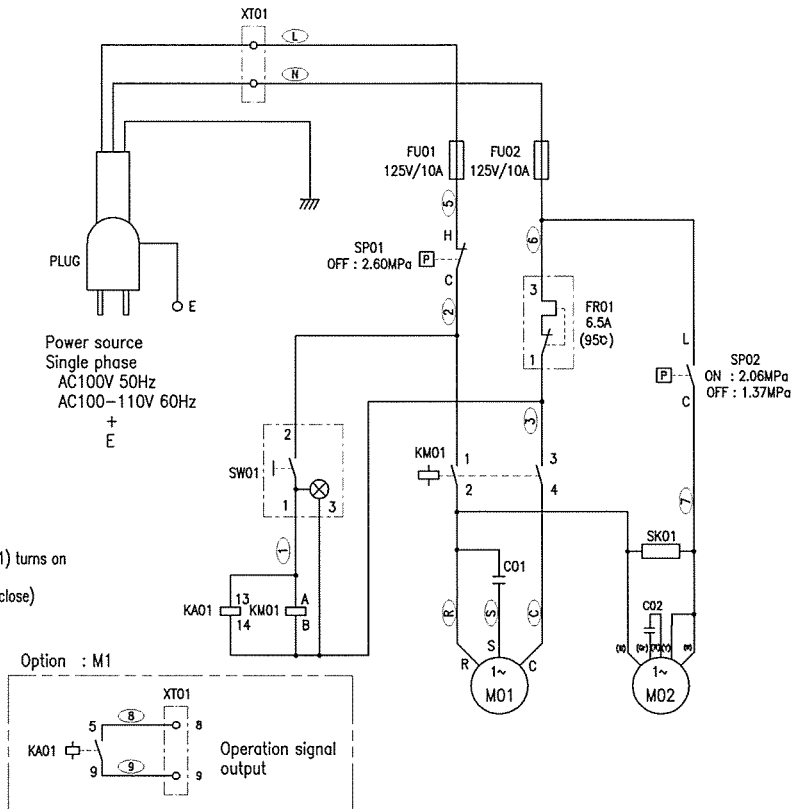
Option classification	
□ H	English documentation
□ H3	Temporarily export packing
□ M1	Operation signal output
□ N1	Product photo

M01 : Compressor
 M02 : Fan motor
 C01 : Run capacitor
 C02 : Run capacitor
 FR01 : Over load protector
 FU01 : Fuse
 FU02 : Fuse
 SK01 : Surge absorber
 SP01 : High pressure switch (manual reset)
 SP02 : Fan control switch
 KM01 : Electromagnetic contactor
 SW01 : Start-stop switch (with lamp)
 XT01 : Terminal block
 KA01 : Relay

Note

1.<Option : M1>

- When remote operation would be needed, start-stop switch (SW01) turns on and control by power source.
- Operation signal output : non voltage a-contact (running : 8-9 close)
- Contact capacity : AC220V,5A/DC24V,5A resistance load
- *Don't use small direct current for contact.



GK3111D-□-AC200V (□ : Option mark)

Please mark (/) the option mark.

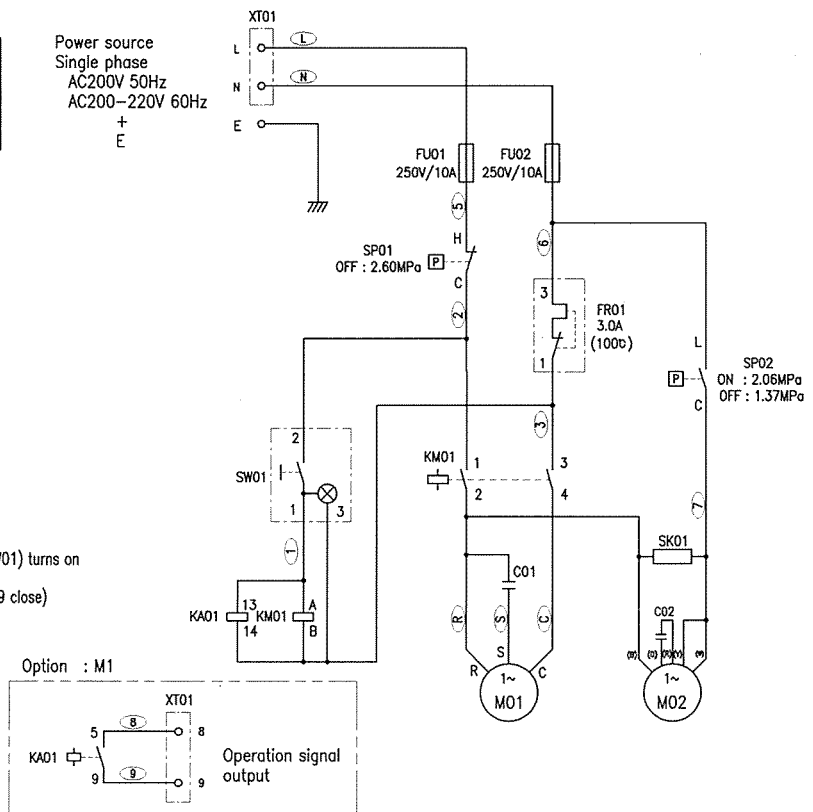
Option classification	
□ H	English documentation
□ H3	Temporarily export packing
□ M1	Operation signal output
□ N1	Product photo

M01 : Compressor
 M02 : Fan motor
 C01 : Run capacitor
 C02 : Run capacitor
 FR01 : Over load protector
 FU01 : Fuse
 FU02 : Fuse
 SK01 : Surge absorber
 SP01 : High pressure switch (manual reset)
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 KM01 : Electromagnetic contactor
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Note

1.<Option : M1>

- When remote operation would be needed, start-stop switch (SW01) turns on and control by power source.
- Operation signal output : non voltage a-contact (running : 8-9 close)
- Contact capacity : AC220V,5A/DC24V,5A resistance load
- *Don't use small direct current for contact.



GK5103-□-AC100V (□ : Option mark)

Please mark (/) the option mark.

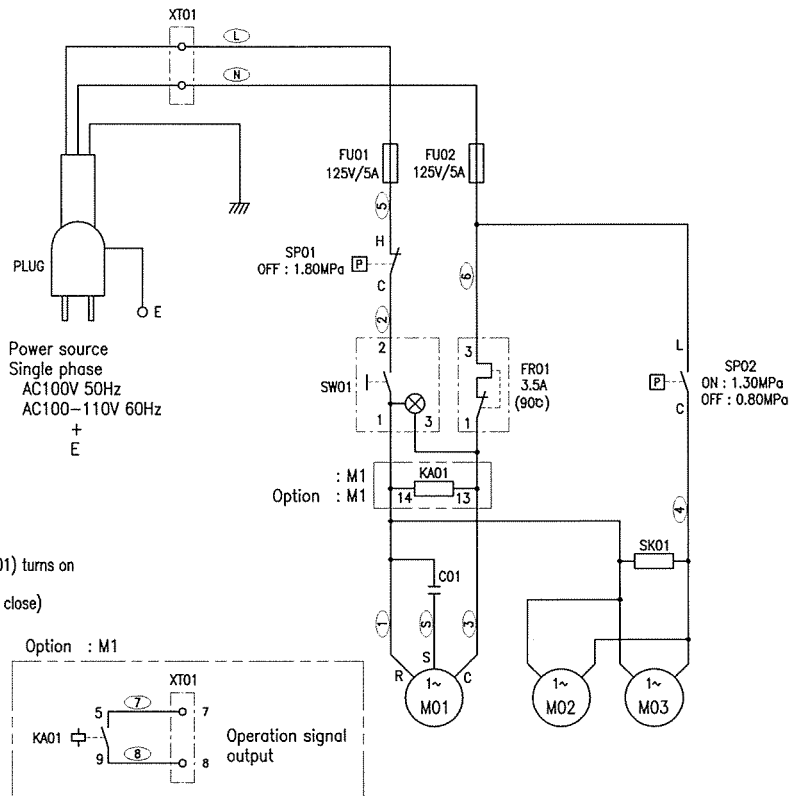
Option classification	
☐ H	English documentation
☐ H3	Temporarily export packing
☐ M1	Operation signal output
☐ N1	Copper tube rust-proof

M01 : Compressor
 M02 : Fan motor
 M03 : Fan motor
 C01 : Run capacitor
 FR01 : Over load protector
 FU01 : Fuse
 FU02 : Fuse
 SK01 : Surge absorber
 SP01 : High pressure switch (manual reset)
 SP02 : Fan control switch
 SW01 : Start-stop switch (with lamp)
 XT01 : Terminal block
 PLUG : Plug cord (with earth wire)
 KA01 : Relay

Note

1.<Option : M1>

- When remote operation would be needed, start-stop switch (SW01) turns on and control by power source.
- Operation signal output : non voltage a-contact (running : 7-8 close)
- Contact capacity : AC220V,5A/DC24V,5A resistance load
- *Don't use small direct current for contact.



GK5103-□-AC200V (□ : Option mark)

Please mark (/) the option mark.

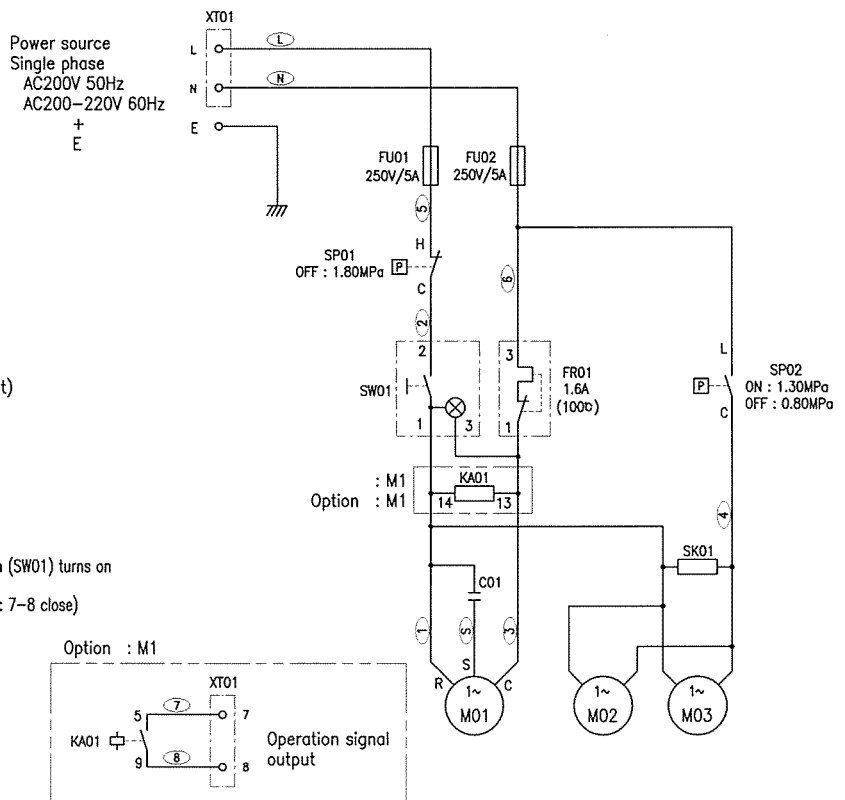
Option classification	
☐ H	English documentation
☐ H3	Temporarily export packing
☐ M1	Operation signal output
☐ N1	Copper tube rust-proof

M01 : Compressor
 M02 : Fan motor
 M03 : Fan motor
 C01 : Run capacitor
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 SK01 : Surge absorber
 SP01 : High pressure switch (manual reset)
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 SW01 : Start-stop switch (with lamp)
 XT01 : Terminal block
 PLUG : Plug cord (with earth wire)
 KA01 : Relay

Note

1.<Option : M1>

- When remote operation would be needed, start-stop switch (SW01) turns on and control by power source.
- Operation signal output : non voltage a-contact (running : 7-8 close)
- Contact capacity : AC220V,5A/DC24V,5A resistance load
- *Don't use small direct current for contact.



Discontinue

GK5104-□-AC100V (□ : Option mark)

Please mark (/) the option mark.

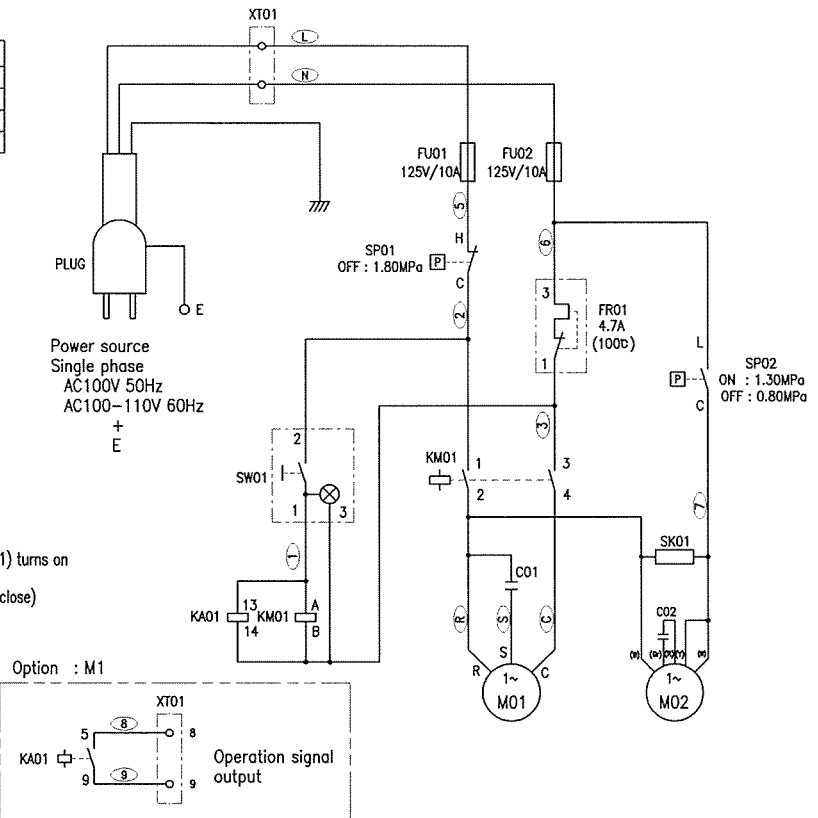
Option classification	
☐ H	English documentation
☐ H3	Temporarily export packing
☐ M1	Operation signal output
☐ N1	Product photo

M01 : Compressor
 M02 : Fan motor
 C01 : Run capacitor
 C02 : Run capacitor
 FR01 : Over load protector
 FU01 : Fuse
 FU02 : Fuse
 SK01 : Surge absorber
 SP01 : High pressure switch (manual reset)
 SP02 : Fan control switch
 KM01 : Electromagnetic contactor
 SW01 : Start-stop switch (with lamp)
 XT01 : Terminal block
 KA01 : Relay

Note

1.<Option : M1>

- When remote operation would be needed, start-stop switch (SW01) turns on and control by power source.
- Operation signal output : non voltage a-contact (running : 8-9 close)
- Contact capacity : AC220V, 5A/DC24V, 5A resistance load
- Don't use small direct current for contact.



GK5104-□-AC200V (□ : Option mark)

Please mark (/) the option mark.

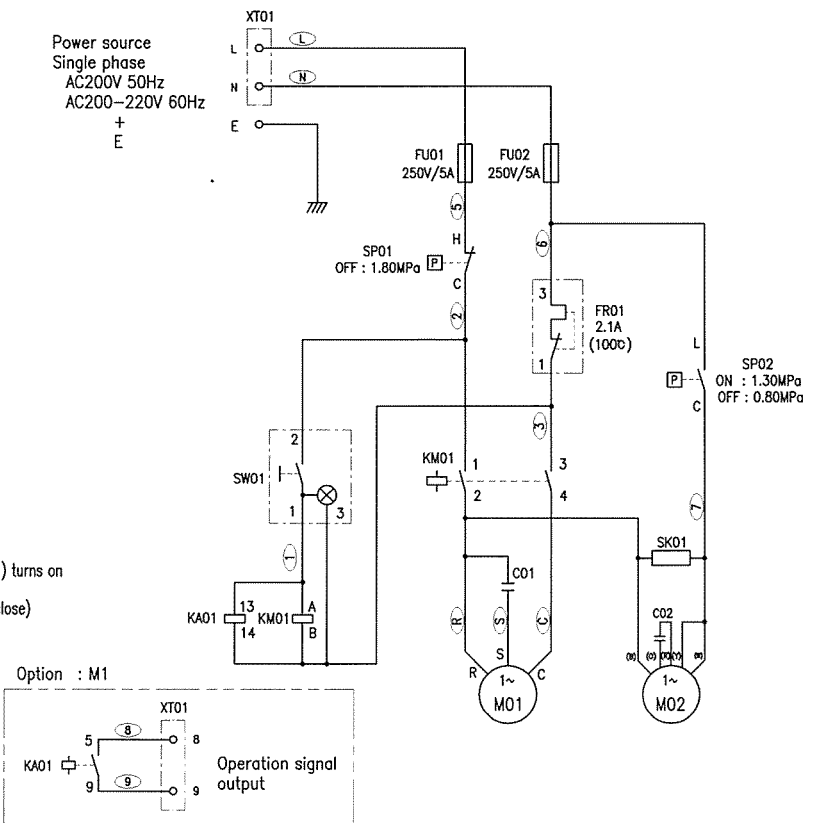
Option classification	
☐ H	English documentation
☐ H3	Temporarily export packing
☐ M1	Operation signal output
☐ N1	Product photo

M01 : Compressor
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Note

1.<Option : M1>

- When remote operation would be needed, start-stop switch (SW01) turns on and control by power source.
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- Contact capacity : AC220V, 5A/DC24V, 5A resistance load
- Don't use small direct current for contact.



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GK5106-□-AC100V (□ : Option mark)

Please mark (/) the option mark.

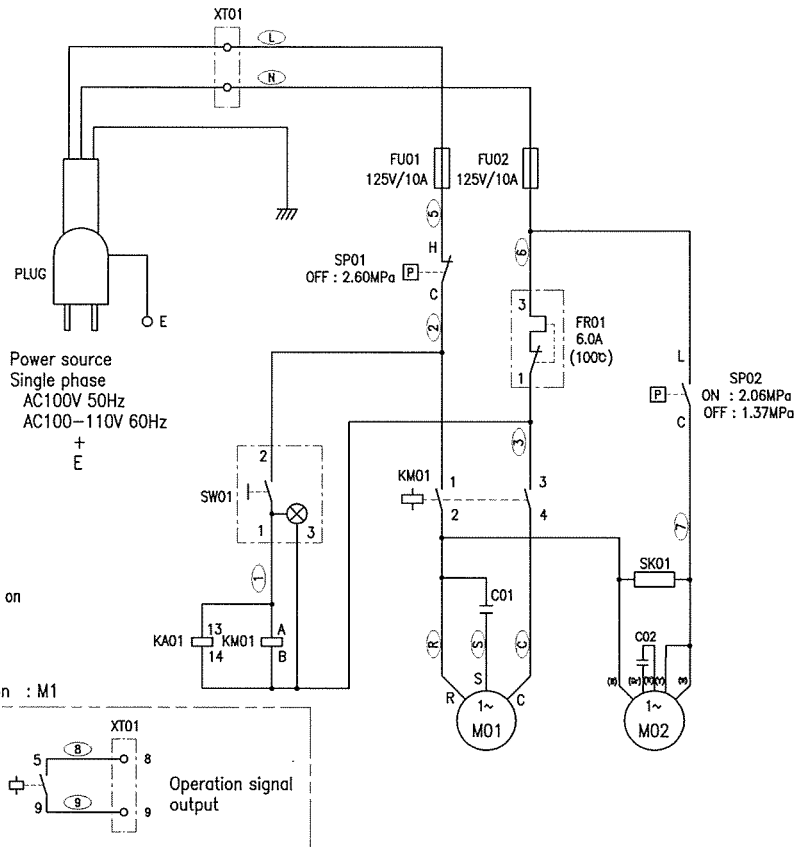
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☐ H3	Temporarily export packing
☐ M1	Operation signal output
☐ N1	Product photo

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 SW01 : Start-stop switch (with lamp)
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 KA01 : Relay

Note

1.<Option : M1>

- When remote operation would be needed, start-stop switch (SW01) turns on and control by power source.
- Operation signal output : non voltage a-contact (running : 8-9 close)
- Contact capacity : AC220V,5A/DC24V,5A resistance load
- Don't use small direct current for contact.



GK5106-□-AC200V (□ : Option mark)

Please mark (/) the option mark.

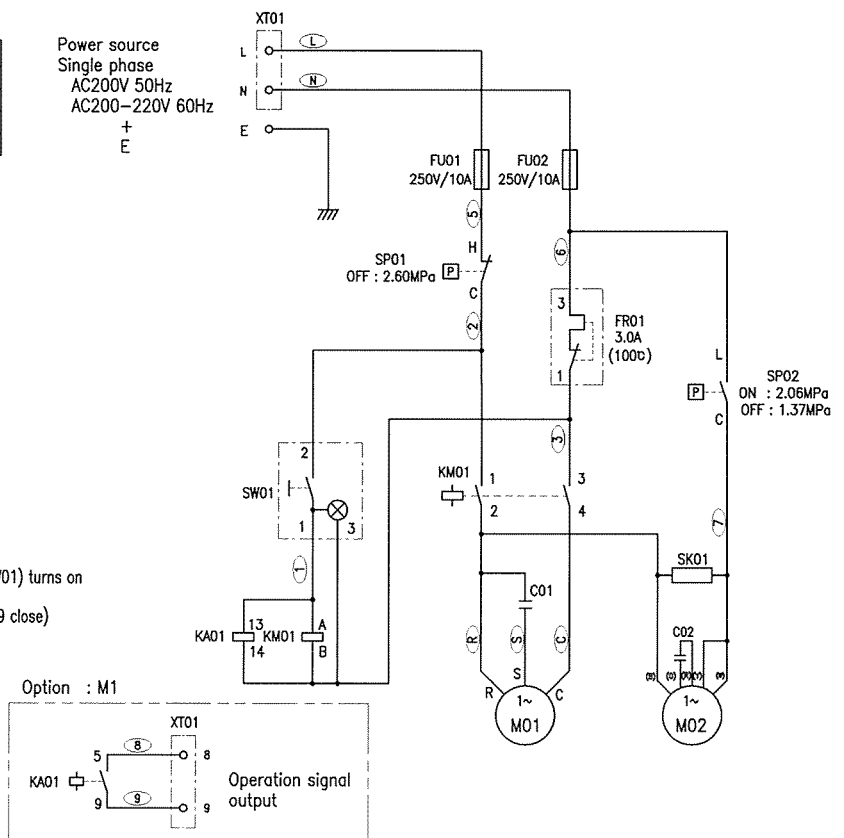
Option classification	
☐ H	English documentation
☐ H3	Temporarily export packing
☐ M1	Operation signal output
☐ N1	Product photo

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- Contact capacity : AC220V,5A/DC24V,5A resistance load
- Don't use small direct current for contact.



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CKD株式会社

東北

●北上営業所

〒024-0034 岩手県北上市諏訪町 2-4-26

TEL (0197) 63-4147 FAX (0197) 63-4186

●仙台営業所

〒984-0015 仙台市若林区卸町 2-2-1(パックス 2・1 階)

TEL (022) 239-1851 FAX (022) 239-1856

●山形営業所

〒990-0834 山形県山形市清住町 3-5-19

TEL (023) 644-6391 FAX (023) 644-7273

北関東

●さいたま営業所

〒331-0812 さいたま市北区宮原町 3-297-2(杉ビル 6 5 階)

TEL (048) 652-3811 FAX (048) 652-3816

●茨城営業所

〒300-0847 茨城県土浦市卸町 1-1-1(関鉄つくばビル 4 階 C)

TEL (029) 841-7490 FAX (029) 841-7495

●宇都宮営業所

〒321-0953 栃木県宇都宮市東宿郷 3-1-7(NBF 宇都宮ビル 3 階)

TEL (028) 638-5770 FAX (028) 638-5790

●太田営業所

〒373-0813 群馬県太田市内ヶ島町 946-2(大観総合ビル 1 階)

TEL (0276) 45-8935 FAX (0276) 46-5628

南関東

●東京営業所

〒105-0013 東京都港区浜松 1-31-1(文化放送メディアプラス4階)

TEL (03) 5402-3628 FAX (03) 5402-0122

●立川営業所

〒190-0022 東京都立川市錦町 3-2-30(朝日生命立川錦町ビル 3 階)

TEL (042) 527-3773 FAX (042) 527-3782

●千葉営業所

〒274-0825 千葉県船橋市前原西 2-12-5(朝日生命津田沼ビル 5 階)

TEL (047) 470-5070 FAX (047) 493-5190

●横浜営業所

〒222-0033 横浜市中区新横浜 2-17-19(日総第 15 ビル 4 階)

TEL (045) 475-3471 FAX (045) 475-3470

●厚木営業所

〒243-0035 神奈川県厚木市愛甲 1212-3

TEL (046) 226-5201 FAX (046) 226-5208

●甲府営業所

〒409-3867 山梨県中巨摩郡昭和町清水新居 1509

TEL (055) 224-5256 FAX (055) 224-3540

●東京支店

〒105-0013 東京都港区浜松 1-31-1(文化放送メディアプラス4階)

TEL (03) 5402-3620 FAX (03) 5402-0120

北陸・信越

●長岡営業所

〒940-0088 新潟県長岡市柏町 1-4-33(高野不動産ビル 2 階)

TEL (0258) 33-5446 FAX (0258) 33-5381

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