

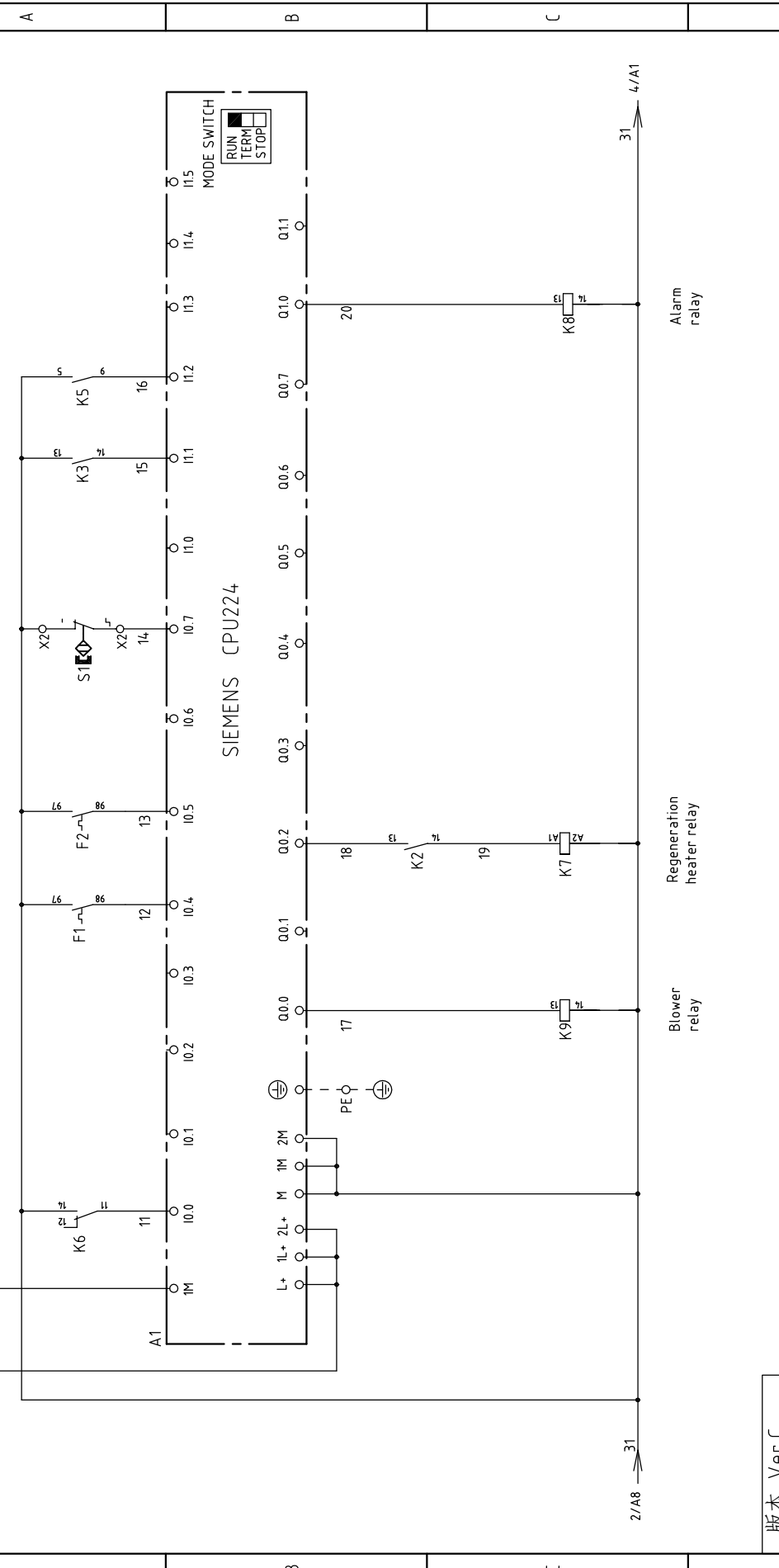
版本 Ver.C

| | | | | | |
|---|-------------|---------------------------|--------------------|-----------------------------------|-------------|
| D | Scale | Standard | CE | Page | 2 |
| | | Voltage | 400V | Totally | 7 |
| D | Drawing NO. | SD-40H-LC-CE-400V-B-2 | | Frequency | 50HZ |
| | | Control Circuit Diagram 1 | | | |
| D | Title | SD-40H-LC | | 信易電熱機械股份有限公司 | |
| | | Control Circuit Diagram 1 | | Shini Plastics Technologies, Inc. | |
| D | Version | B | Approved by | Date | 20160816 |
| | | Designer | Proofread by | Checked by | Modify date |
| D | Mark | Before modification | After modification | Modified by | 2 |
| | | 1 | 3 | 4 | 4 |
| | | | | | 8 |

Rotor micro switch

30 → 4/A1

2/A8 → 30




SIEMENS CPU224

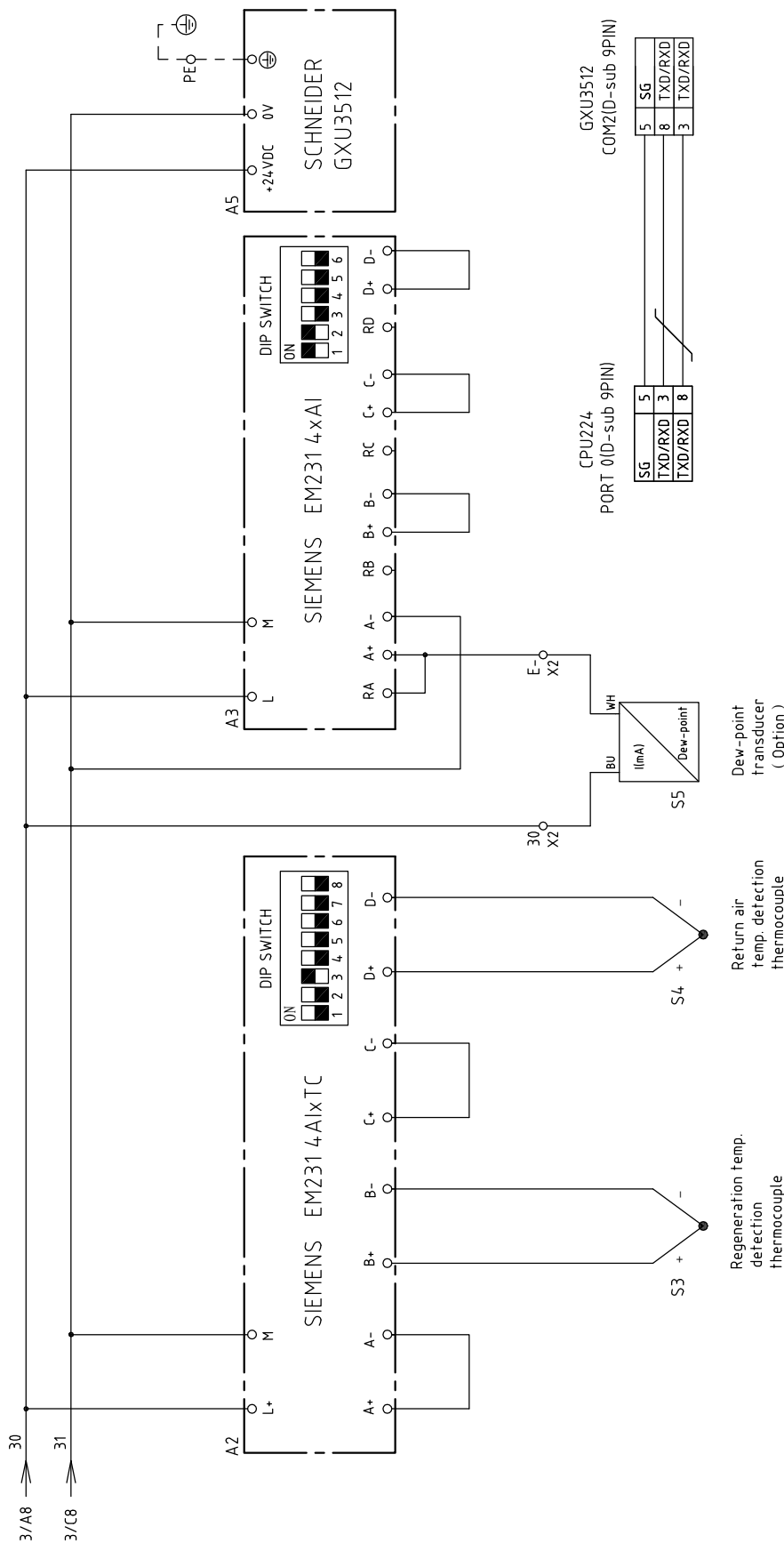
Alarm relay

Regeneration heater relay

Blower relay

版本 Ver.C

| | | | | | | | | | |
|------|---------------------|-------------|-------------|------------|------|--|---|-------------------------|------------------------------|
| Mark | Before modification | Modified by | Modify date | Checked by | Date |  信易電熱機械股份有限公司 Shini Plastics Technologies, Inc. | Drawing NO. SD-40H-LC-CE-400V-B-3 Control Circuit Diagram 2 | Scale Standard CE | Page 3 Totally 7 Pages |
| | After modification | Modified by | Modify date | Checked by | Date | | | | |



| | | | | | | | | | | | | | | | | | | | | | |
|------|---------------------|-------------|-------------|------------|----------|-------------|---------|---|-------|--|-------------|-----------------------|-------|----------|----|------|---|---------|---|-------|--|
| Mark | Before modification | Modified by | Modify date | Checked by | Date | Approved by | Version | B | Title | SD-40H-LC Control Circuit Diagram 3 | Drawing NO. | SD-40H-LC-CE-400V-B-4 | Scale | Standard | CE | Page | 4 | Totally | 7 | Pages | |
| | | | | | 20160816 | | | | | | | | | | | | | | | | |

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|---------------------|--|
| Version | 4 |
| Before modification | 2 |
| After modification | 2 |
| Modified by | |
| Modify date | |
| Checked by | |
| Date | 20160816 |
| Approved by | |
| Version | B |
| Title | SD-40H-LC Control Circuit Diagram 3 |
| Drawing NO. | SD-40H-LC-CE-400V-B-4 |

| | | |
|-----------|----------|----|
| Scale | Standard | CE |
| Page | 4 | |
| Totally | 7 | |
| Pages | | |
| Voltage | 400V | |
| Frequency | 50HZ | |

| | |
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| Mark | Ver.C |
|------|-------|

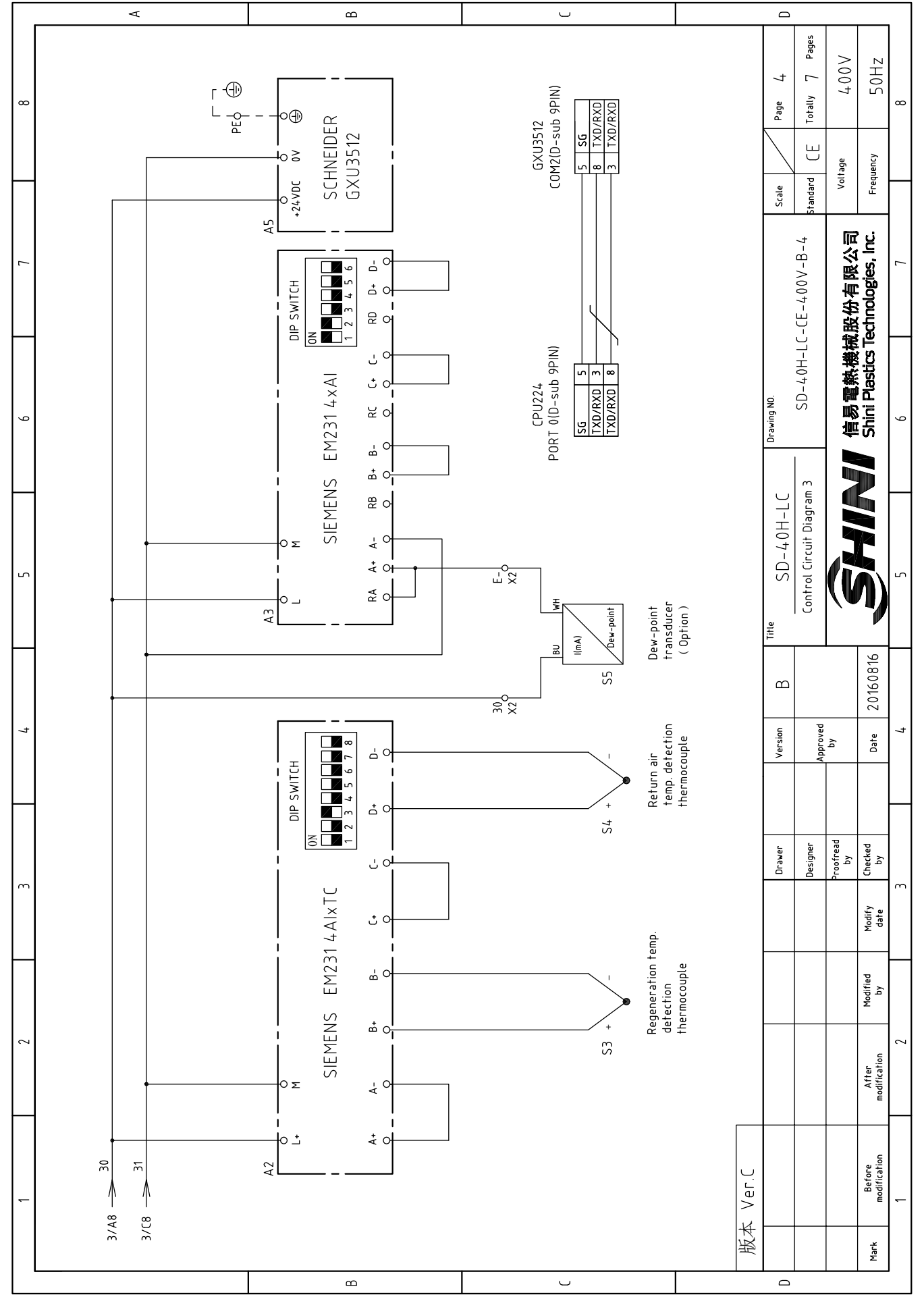
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| Version | 4 |
| Before modification | 2 |
| After modification | 2 |
| Modified by | |
| Modify date | |
| Checked by | |
| Date | 20160816 |
| Approved by | |
| Version | B |
| Title | SD-40H-LC Control Circuit Diagram 3 |
| Drawing NO. | SD-40H-LC-CE-400V-B-4 |

| | | |
|-----------|----------|----|
| Scale | Standard | CE |
| Page | 4 | |
| Totally | 7 | |
| Pages | | |
| Voltage | 400V | |
| Frequency | 50HZ | |

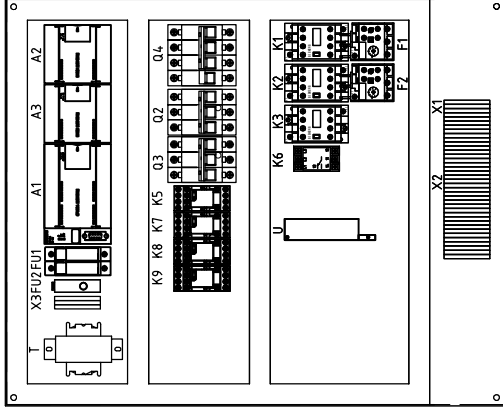
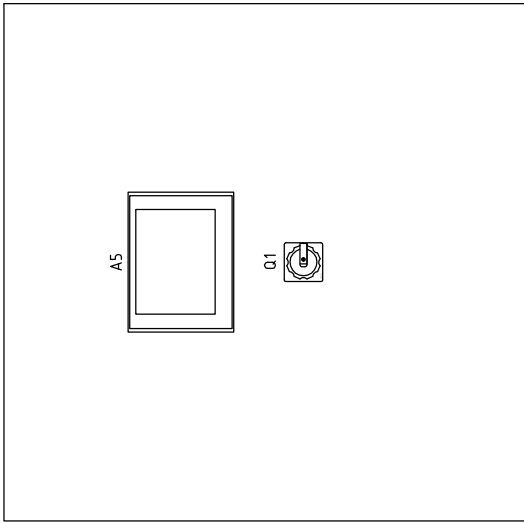
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| Mark | Ver.C |
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| Version | 4 |
| Before modification | 2 |
| After modification | 2 |
| Modified by | |
| Modify date | |
| Checked by | |
| Date | 20160816 |
| Approved by | |
| Version | B |
| Title | SD-40H-LC Control Circuit Diagram 3 |
| Drawing NO. | SD-40H-LC-CE-400V-B-4 |

| | | |
|-----------|----------|----|
| Scale | Standard | CE |
| Page | 4 | |
| Totally | 7 | |
| Pages | | |
| Voltage | 400V | |
| Frequency | 50HZ | |



1 2 3 4 5 6 7 8



| | | | | |
|------|---|---|----|------------------------------------|
| PE 4 | 3 | 2 | 1 | Connect to alarm indicator /buzzer |
| PE 4 | 2 | 2 | 10 | |
| | | | | Connect to fan motor |

| | | | | | | | | | |
|---|---|-------|------|--|---|----------------------------------|---|---|-----------------------------|
| 9 | 8 | PE 7 | 6 | 5 | 4 | 3 | 2 | 1 | Connect to regeneration EGO |
| 2 | 4 | PE 30 | E-14 | 31 | 2 | 8 | 9 | | |
| | | | | Connect to dew point transducer (option) | | Connect to honeycomb rotor motor | | | |
| | | | | Connect to micro switch | | Connect to regeneration heater | | | |

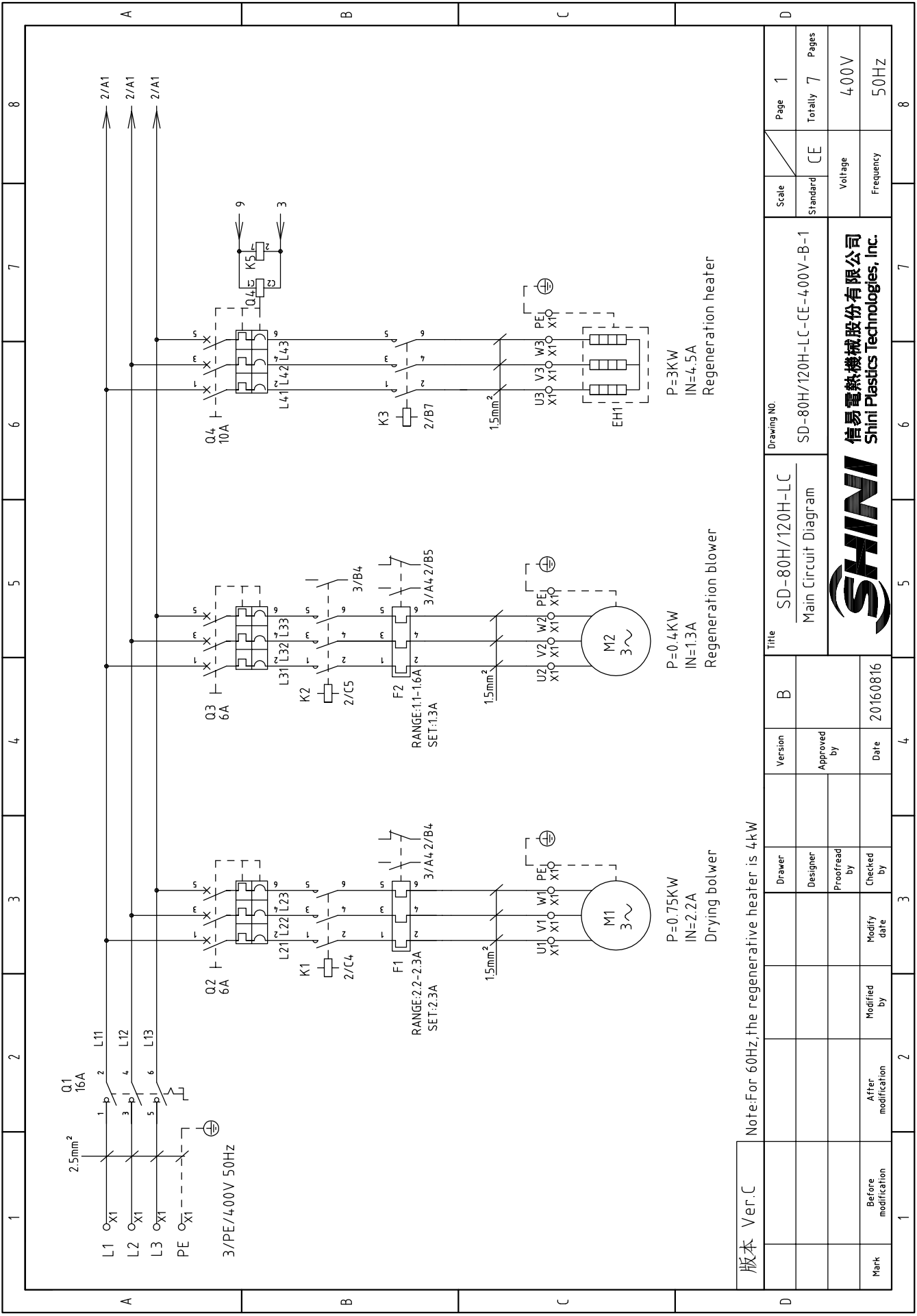
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|----|----|-------|------|--------------------------------|-------|------|----|--------------------------|------|----|----|----|------------------------|
| 12 | 11 | 10 | PE 9 | 8 | 7 | PE 6 | 5 | 4 | PE 3 | 2 | 1 | PE | Connect to power lines |
| U2 | W2 | PE U1 | V1 | W1 | PE U3 | V3 | W3 | PE L1 | L2 | L3 | PE | | |
| | | | | Connect to regeneration blower | | | | Connect to drying blower | | | | | |

版本 Ver.C

| | | | | | | | | | | | | | | | | | | | | | | |
|--------|---------------------|--------------|-------------|------------|------|-------------|---------|---|-------|-----------|------------------------------|-----------------------|-------|----------|----|------|---|---------|---|-------|------|------|
| Mark | Before modification | Modified by | Modify date | Checked by | Date | Approved by | Version | B | Title | SD-40H-LC | Electrical Components Layout | SD-40H-LC-CE-400V-B-5 | Scale | Standard | CE | Page | 5 | Totally | 7 | Pages | 400V | 50HZ |
| Drawer | Designer | Proofread by | Checked by | 20160816 | | | | | SHINI | SHINI | SHINI | SHINI | | | | | | | | | | |

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| | | | | | | | | | | | |
|----------|--|-------------|-------------|------------|----------|----------------|----------------------|-------------|----------|----------------------------|-----------|
| 版本 Ver.C | Note:For 60Hz,the regenerative heater is 4kW | | | Title | | SD-80H/120H-LC | | Drawing NO. | | SD-80H/120H-LC-CE-400V-B-1 | |
| Mark | Before modification | Modified by | Modify date | Checked by | Date | Approved by | Main Circuit Diagram | | Standard | CE | Page 1 |
| | | | | | 20160816 | | | | | | Totally 7 |
| | | | | | | | | | | | Pages |
| | | | | | | | | | | | 400V |
| | | | | | | | | | | | 50HZ |



1 2 3 4 5 6 7 8

A B C D

2/A1 2/A1 2/A1

Q1 16A 2.5mm² L11 L12 L13 PE 3/PE/400V 50Hz

Q2 6A L21 2.3A SET:2.3A RANGE:2.2-2.3A

Q3 6A L31 1.3A SET:1.3A RANGE:1.1-1.6A

Q4 10A L41 4.3A SET:1.3A RANGE:1.1-1.6A

M1 3~ P=0.75KW IN=2.2A Drying botwer

M2 3~ P=0.4KW IN=1.3A Regeneration blower

Eh1 P=3KW IN=4.5A Regeneration heater

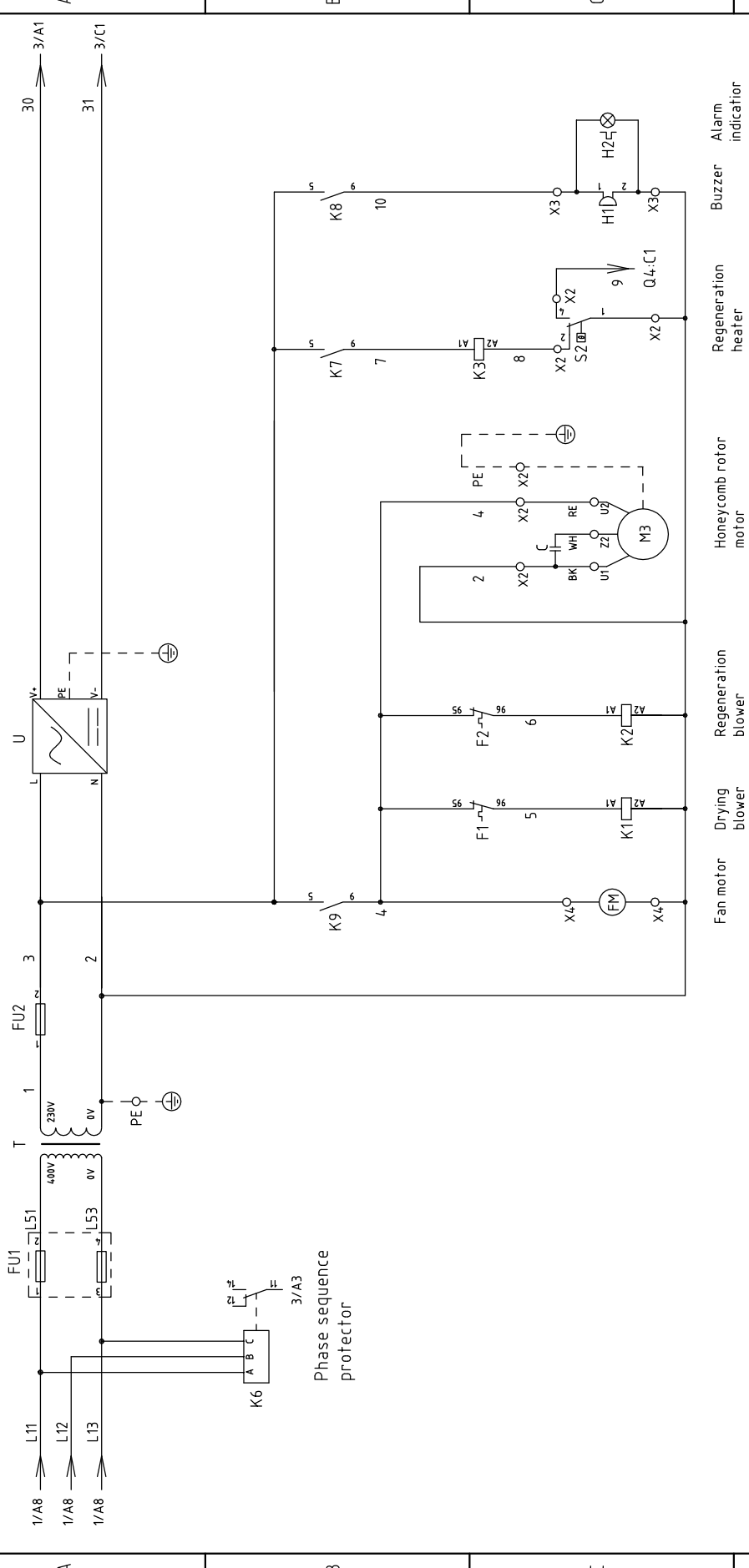
U1 V1 W1 PE X10 X10 X10 X10

U2 V2 W2 PE X10 X10 X10 X10

U3 V3 W3 PE X10 X10 X10 X10

1 2 3 4 5 6 7 8

A B C D



| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---------------------|--------------------|-------------|-------------|------------|--------------|----------|--------|---------|---|-------|---------------------------|----------------|-------|-------------|--------------|----------------------------|-----------------------------------|-------|----------|------|-----------|------|---------|---|-------|--|
| Mark | Before modification | After modification | Modified by | Modify date | Checked by | Proofread by | Designer | Drawer | Version | B | Title | | SD-80H/120H-LC | | Drawing NO. | | SD-80H/120H-LC-CE-400V-B-2 | | Scale | Standard | CE | Page | 2 | Totally | 7 | Pages | |
| | | | | | | | | | | | | Control Circuit Diagram 1 | | SHINI | | 信易電熱機械股份有限公司 | | Shini Plastics Technologies, Inc. | | Voltage | 400V | Frequency | 50HZ | | | | |

| | | | | | | | | | | | | | | | | | |
|-------------|---|---------------------------|--|----------------|--|--------------|--|-----------------------------------|--|---------|----------|-----------|------|---|---------|---|-------|
| Version | B | Title | | SD-80H/120H-LC | | Drawing NO. | | SD-80H/120H-LC-CE-400V-B-2 | | Scale | Standard | CE | Page | 2 | Totally | 7 | Pages |
| Approved by | | Control Circuit Diagram 1 | | SHINI | | 信易電熱機械股份有限公司 | | Shini Plastics Technologies, Inc. | | Voltage | 400V | Frequency | 50HZ | | | | |

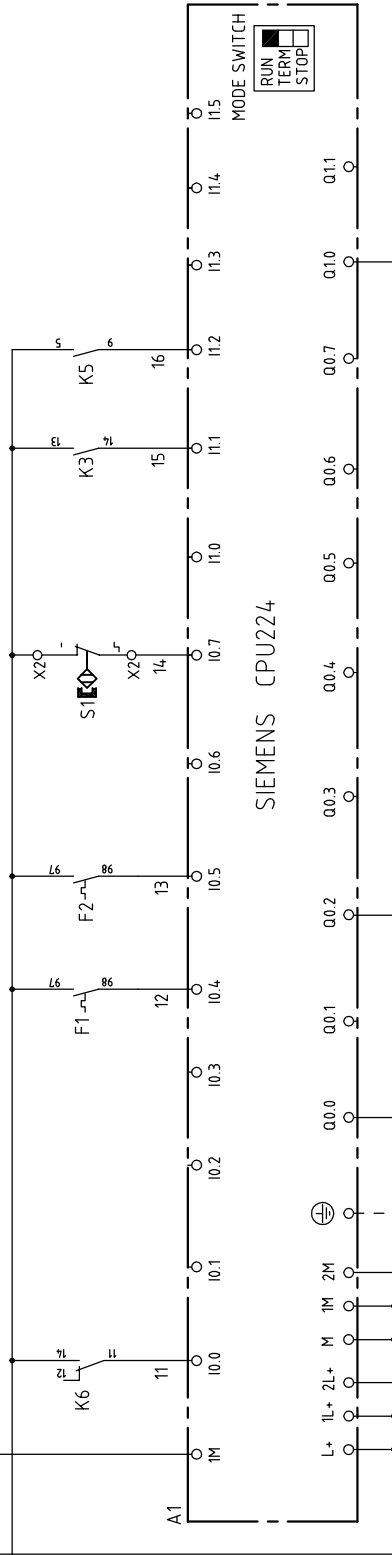
版本 Ver.C

1 2 3 4 5 6 7 8

Rotor micro switch

30 → 4/A1

2/A8 → 30



SIEMENS CPU224


MODE SWITCH
 RUN
 TERM
 STOP

Blower relay

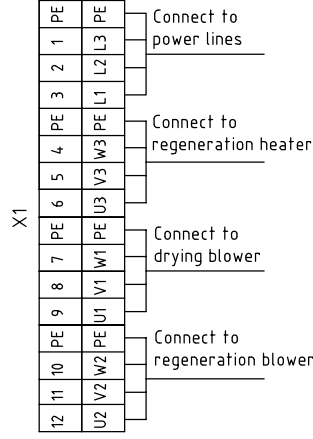
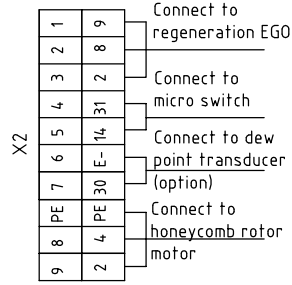
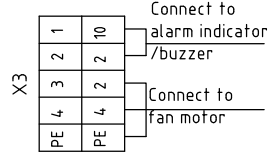
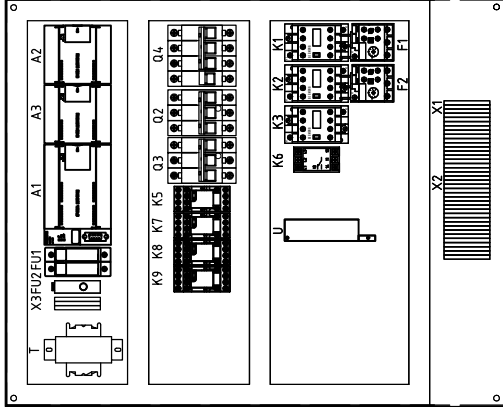
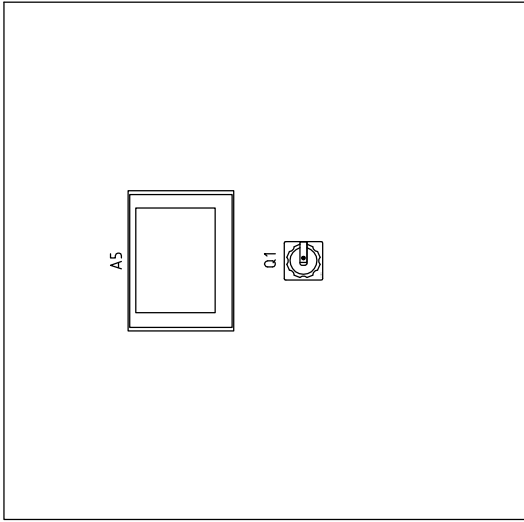
Regeneration heater relay

Alarm relay

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|------|---------------------|-------------|-------------|------------|----------|--|---|--------------------------------------|----------------|---------------------------|------|---|
| Mark | Before modification | Modified by | Modify date | Checked by | 20160816 |  <p>信易電熱機械股份有限公司 Shini Plastics Technologies, Inc.</p> | Drawing NO. SD-80H/120H-LC-CE-400V-B-3 | Scale | Standard | CE | Page | 3 |
| | After modification | Modified by | Modify date | Checked by | 20160816 | | | Voltage 400V Frequency 50HZ | Standard CE | Page 3 Totally 7 | | |

1 2 3 4 5 6 7 8



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|------|---------------------|-------------|-------------|------------|----------|-------------|---------|---|--|----------------|------------------------------|----------------------------|-------|-----------|---------|------|---|
| Mark | Before modification | Modified by | Modify date | Checked by | Date | Approved by | Version | B | Title | SD-80H/120H-LC | Electrical Components Layout | SD-80H/120H-LC-CE-400V-B-5 | Scale | Standard | CE | Page | 5 |
| | After modification | | | | 20160816 | | | | SHINI 信易電熱機械股份有限公司 Shini Plastics Technologies, Inc. | | | Standard | CE | | Totally | 7 | |
| | | | | | | | | | SHINI 信易電熱機械股份有限公司 Shini Plastics Technologies, Inc. | | | Voltage | 400V | Frequency | 50HZ | | |

Drawing NO.

SD-80H/120H-LC-CE-400V-B-5



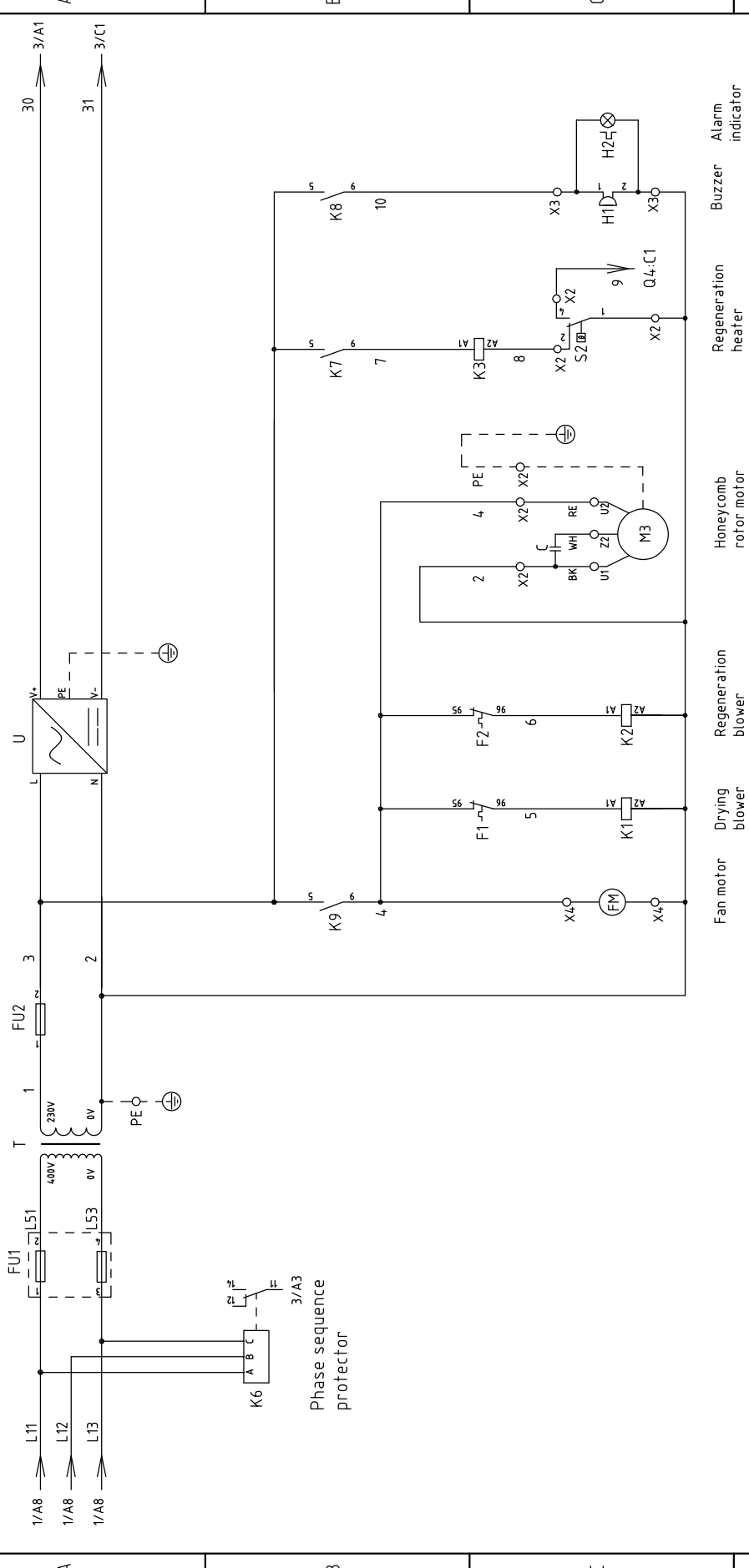
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Shini Plastics Technologies, Inc.

1 2 3 4 5 6 7 8

| 1 | 2 | | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---------------------|--------------------------|--------------|------------------------------|------------------------|----------------------------|-----------------|--------|
| NO. | Symbol | Name | Manufacturer | Type | Specification | Number | Material number | Remark |
| 1 | Q1 | Main switch | MOELLER | T0-2-1/EA/SVB | 16A | 1 | YE10021160000 | |
| 2 | Q2 | Circuit-breaker | TECO | BM-63C 3P | 6A | 1 | YE40300603000 | |
| 3 | Q3 | Circuit-breaker | TECO | BM-63C 3P | 6A | 1 | YE40300603000 | |
| 4 | Q4 | Circuit-breaker | TECO | BM-63C 3P | 10A | 1 | YE40301003000 | |
| 5 | | Excitation release | CHINT | MX | - | 1 | YE40023560000 | |
| 6 | K1 | Contact | SIEMENS | 3RT6016-1AN21 | 230V 50/60Hz | 1 | YE00601621000 | |
| 7 | K2 | Contact | SIEMENS | 3RT6016-1AN21 | 230V 50/60Hz | 1 | YE00601621000 | |
| 8 | K3 | Contact | SIEMENS | 3RT6017-1AN21 | 230V 50/60Hz | 1 | YE00601721000 | |
| 9 | F1 | Thermo overload relay | SIEMENS | 3RU6116-IDB0 | 2.2-3.2A | 1 | YE01160220000 | |
| 10 | F2 | Thermo overload relay | SIEMENS | 3RU6116-1AB0 | 1.1-1.6A | 1 | YE01160110000 | |
| 11 | K6 | Phase sequence protector | CHAOSHI | ABJ-10W | 400V 50/60Hz | 1 | YE03103800000 | |
| 12 | K5 | Middle relay | WEIDMULLER | DRM270730LT | 230V 50/60Hz | 1 | YE03270700000 | |
| 13 | K7,K8,K9 | Middle relay | WEIDMULLER | DRM270024LT | 24VDC | 3 | YE03272400000 | |
| 14 | S1 | Sensor switch | ---- | ---- | 24V | 1 | ---- | (1) |
| 15 | S2 | Temperature protector | TONGBAO | WR-A-50-300-1000-3 | 250V-5(4)A | 1 | ---- | (1) |
| 16 | S3,S4 | Thermocouple | SHINI | ST-K | K | 2 | ---- | (1) |
| 17 | S5 | Dew-point transducer | CS | CS 217-0EM | POWER=24VDC OUT=4-20mA | 1 | YE90021700100 | (2) |
| 18 | A1 | PLC | SIEMENS | CPU224 DC/DC/DC | 24VDC | 1 | YE81022400000 | |
| 19 | A2 | PLC Analog module | SIEMENS | EM231 4xTC | -- | 1 | YE82023100100 | |
| 20 | A3 | PLC Analog module | SIEMENS | EM231 4xAI | -- | 1 | YE82023100000 | (2) |
| 21 | A4 | Human-machine interface | SCHNEIDER | GX03512 | 24VDC | 1 | YE80351200200 | |
| 22 | FU1 | Fuse base | CHNT | RT18-32 | 2P | 1 | YE41032200000 | |
| 23 | FU2 | Fuse core | CHNT | 10x38 500V | 2A | 2 | YE46002000100 | |
| 24 | FU2 | Fuse | YINDA | FS-10 | 2A | 1 | YE41001000000 | |
| 25 | U | DC power | MEAN WELL | S-35-24 | IN=230V OUT=DC24V 1.5A | 1 | YE71352400100 | |
| 版本 Ver.C | | | | | | | | |
| Notes: (1)Means it's not the material inside the control box. (2)Stands for optional. | | | | | | | | |
| D | | | | Title | | Drawing NO. | | Page |
| | | | | SD-80H/120H-LC | | SD-80H/120H-LC-CE-400V-B-6 | | 6 |
| | | | | Electrical Components list 1 | | Standard | | CE |
| | | | | | | Voltage | | 400V |
| | | | | | | Frequency | | 50HZ |
| | | | | | | Totally | | 7 |
| | | | | | | Pages | | 8 |
| Mark | Before modification | After modification | Modified by | Modify date | Checked by | Proofread by | Designer | Drawer |
| | | | | 20160816 | | | | |
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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |



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| Mark | Before modification | After modification | Date | 20160914 | Approved by | Version | C | Title | Drawing NO. | | Page | 2 |
| | Modified by | Modify date | | | | | | | SD-200H-LC-CE-400V-C-2 | | | |
| | | | | | | | | | | Voltage | 400V | |
| | | | | | | | | | | Frequency | 50HZ | |

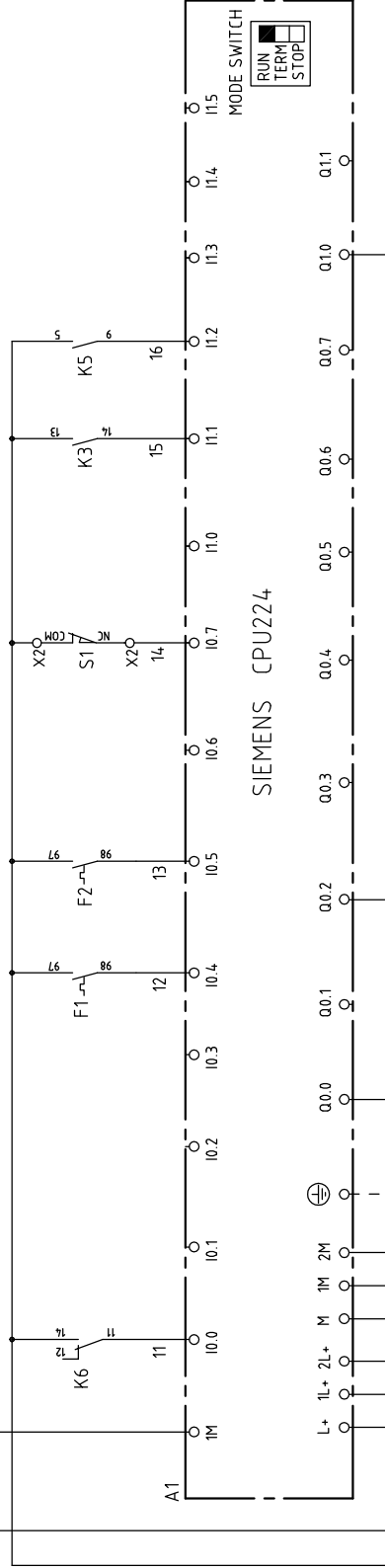


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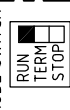
Rotor micro switch

2/A8 → 30


30 → 4/A1

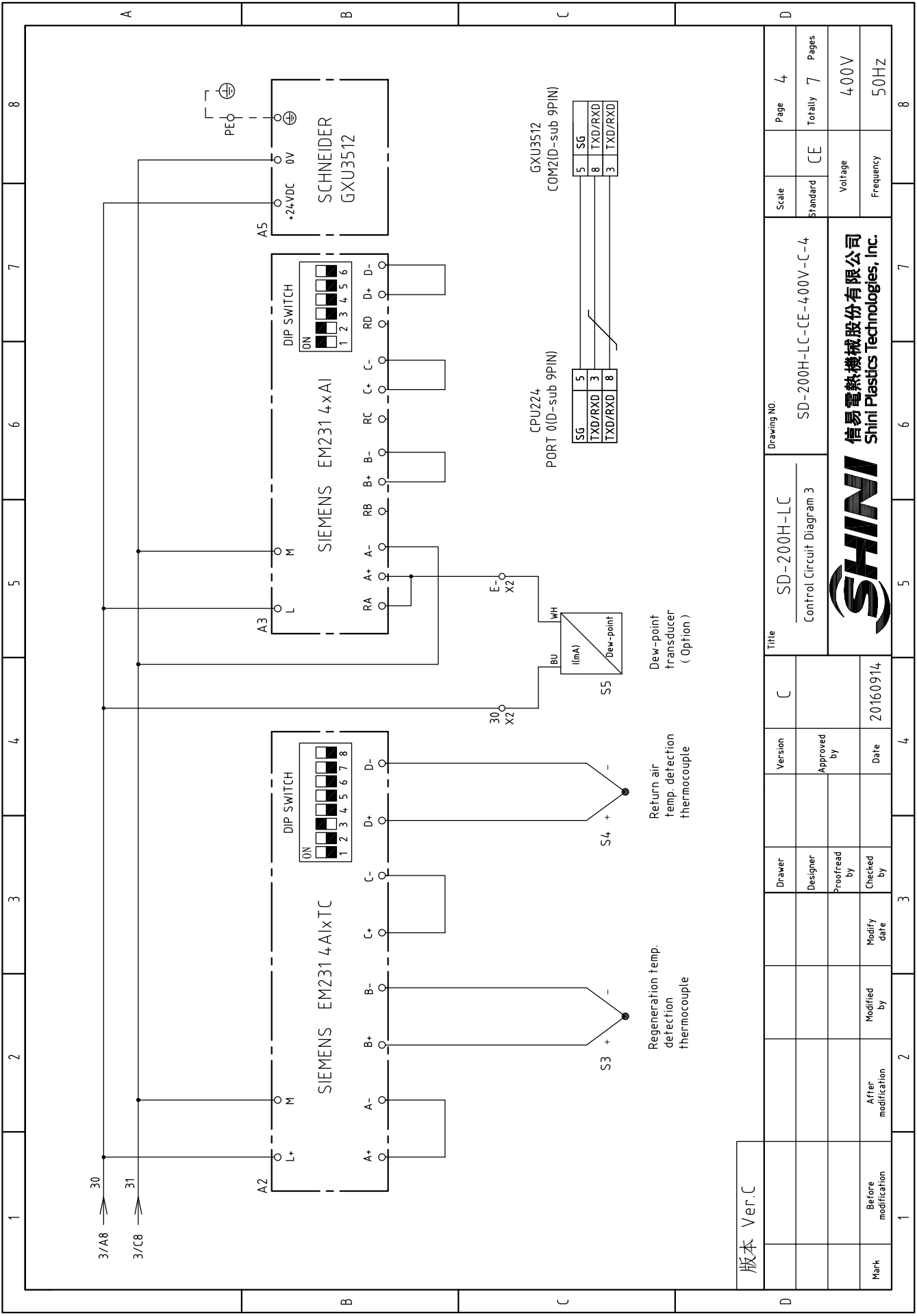


SIEMENS CPU224



版本 Ver.C

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| Mark | Before modification | Modified by | Modify date | Checked by | Date |  信易電熱機械股份有限公司 Shini Plastics Technologies, Inc. | Drawing NO. SD-200H-LC-CE-400V-C-3 | Scale Standard CE | Page 3 Totally 7 Pages |
| | After modification | Modified by | Modify date | Checked by | Date | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | |

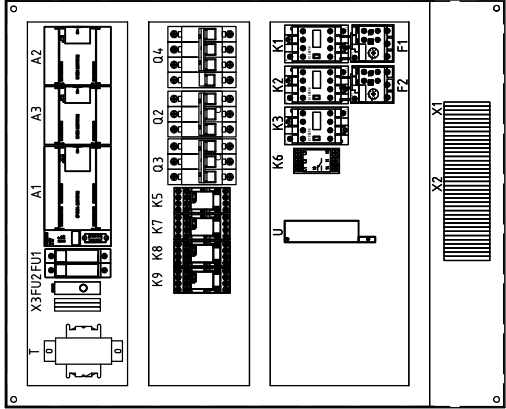
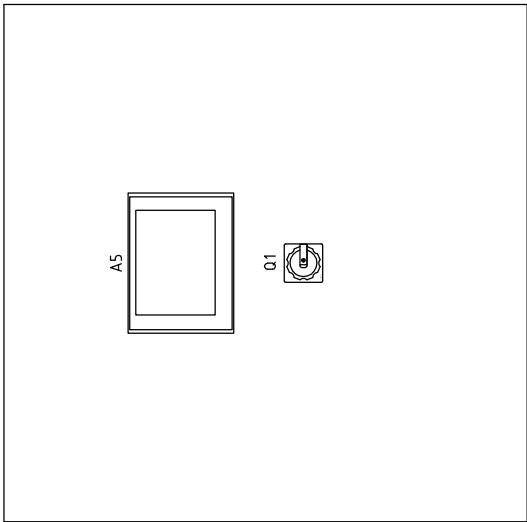


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|------|---------------------|-------------|-------------|------------|----------|-------------|---------|---|------------------------|---|-------|-----------|------|
| Mark | Before modification | Modified by | Modify date | Checked by | Date | Approved by | Version | C | Title | SD-200H-LC Control Circuit Diagram 3 | Scale | Page | 4 |
| | | | 20160914 | | 20160914 | | | | SD-200H-LC-CE-400V-C-4 | Standard | CE | Totally | 7 |
| | | | | | | | | | | | | Voltage | 400V |
| | | | | | | | | | | | | Frequency | 50HZ |

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|---------|---|---|---|---|---|---|---|---|
| Version | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---------|---|---|---|---|---|---|---|---|

1 2 3 4 5 6 7 8



X3

| | | | | | |
|----|---|---|---|----|-------------------------------------|
| PE | 4 | 3 | 2 | 1 | Connect to alarm indicator / buzzer |
| PE | 4 | 2 | 2 | 10 | |
| | | | | | Connect to fan motor |

X2

| | | | | | | | | | | |
|---|---|----|----|----|----|----|---|---|---|--|
| 9 | 8 | PE | 7 | 6 | 5 | 4 | 3 | 2 | 1 | Connect to regeneration EGO |
| | | | | | | | | | | |
| 2 | 4 | PE | 30 | E- | 14 | 31 | 2 | 8 | 9 | Connect to micro switch |
| | | | | | | | | | | Connect to dew point transducer (option) |
| | | | | | | | | | | Connect to honeycomb rotor motor |

X1

| | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------------------------------|
| 12 | 11 | 10 | PE | 9 | 8 | 7 | PE | 6 | 5 | 4 | PE | 3 | 2 | 1 | Connect to power lines |
| | | | | | | | | | | | | | | | |
| U2 | V2 | W2 | PE | U1 | V1 | W1 | PE | U3 | V3 | W3 | PE | L1 | L2 | L3 | Connect to regeneration heater |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Connect to regeneration blower |
| | | | | | | | | | | | | | | | Connect to drying blower |

版本 Ver.C

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|------|---------------------|-------------|-------------|------------|----------|-------------|---------|---|--------|----------|--------------|
| Mark | Before modification | Modified by | Modify date | Checked by | Date | Approved by | Version | C | Drawer | Designer | Proofread by |
| | | | | | 20160914 | | | | | | |

Title SD-200H-LC
Electrical Components Layout

Drawing NO. SD-200H-LC-CE-400V-C-5

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Shini Plastics Technologies, Inc.

| | | | | |
|-------|----------|----|-----------|------|
| Scale | Standard | CE | Page | 5 |
| | | | Totally | 7 |
| | | | Voltage | 400V |
| | | | Frequency | 50HZ |


1 2 3 4 5 6 7 8

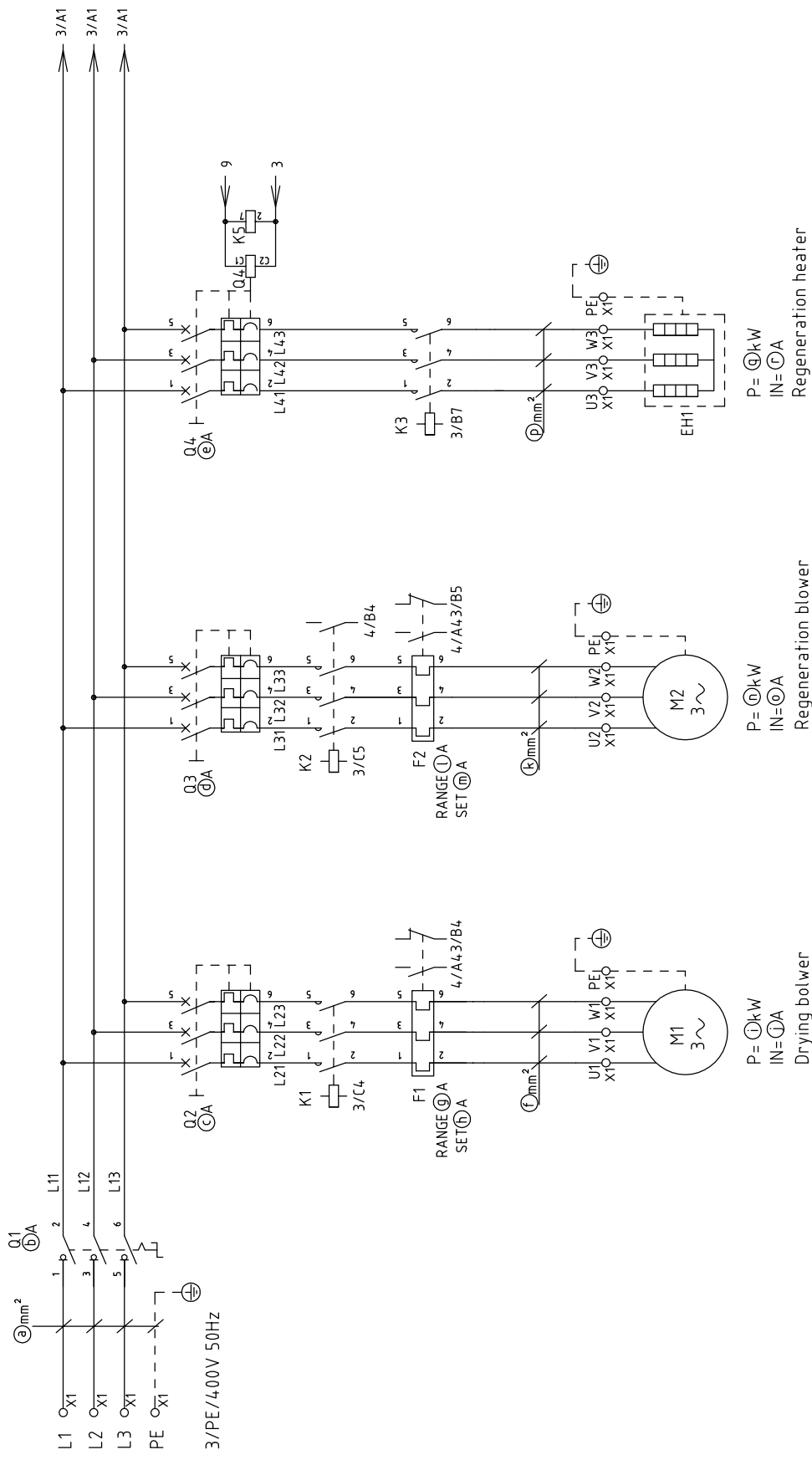
| 1 | 2 | | 3 | 4 | 5 | 6 | 7 | 8 |
|---|----------|--------------------------|--------------|---------------------|------------------------|------------------------------|------------------------|-------------|
| NO. | Symbol | Name | Manufacturer | Type | Specification | Number | Material number | Remark |
| 1 | Q1 | Main switch | MOELLER | T0-2-1/EA/SVB | 16A | 1 | YE10021160000 | |
| 2 | Q2 | Circuit-breaker | TECO | BM-63C 3P | 16A | 1 | YE40301603000 | |
| 3 | | Excitation release | CHINT | MX | - | 1 | YE40023560000 | |
| 4 | Q3 | Circuit-breaker | TECO | BM-63C 3P | 10A | 1 | YE40301003000 | |
| 5 | Q4 | Circuit-breaker | TECO | BM-63C 3P | 6A | 1 | YE40300603000 | |
| 6 | K1 | Contact | SIEMENS | 3RT6016-1AN21 | 230V 50/60Hz | 1 | YE00601621000 | |
| 7 | K2 | Contact | SIEMENS | 3RT6016-1AN21 | 230V 50/60Hz | 1 | YE00601621000 | |
| 8 | K3 | Contact | SIEMENS | 3RT6017-1AN21 | 230V 50/60Hz | 1 | YE00601721000 | |
| 9 | F1 | Thermo overload relay | SIEMENS | 3RU6116-1FB0 | 3.5-5A | 1 | YE01160350000 | |
| 10 | F2 | Thermo overload relay | SIEMENS | 3RU6116-1AB0 | 1.1-1.6A | 1 | YE01160110000 | |
| 11 | K6 | Phase sequence protector | CHAOSHI | ABJ-10W | 400V 50/60Hz | 1 | YE03103800000 | |
| 12 | K5 | Middle relay | WEIDMULLER | DRM270730LT | 230V 50/60Hz | 1 | YE03270700000 | |
| 13 | K7,K8,K9 | Middle relay | WEIDMULLER | DRM270024LT | 24VDC | 3 | YE03272400000 | |
| 14 | S1 | Sensor switch | TEND | LXW5-11G1 | 250V ~5(4)A | 1 | ----- | (1) |
| 15 | S2 | Temperature protector | TONGBAO | WR-A-50-300-1000-3 | 250V-5(4)A | 1 | ----- | (1) |
| 16 | S3,S4 | Thermocouple | SHINI | ST-K | K | 2 | ----- | (1) |
| 17 | S5 | Dew-point transducer | CS | CS 217-0EM | POWER=24VDC OUT=4-20mA | 1 | YE90021700100 | (2) |
| 18 | A1 | PLC | SIEMENS | CPU224 DC/DC/DC | 24VDC | 1 | YE81022400000 | |
| 19 | A2 | PLC Analog module | SIEMENS | EM231 4xTC | -- | 1 | YE82023100100 | |
| 20 | A3 | PLC Analog module | SIEMENS | EM231 4xAI | -- | 1 | YE82023100000 | (2) |
| 21 | A4 | Human-machine interface | SCHNEIDER | GXU3512 | 24VDC | 1 | YE80351200200 | |
| 22 | FU1 | Fuse base | CHNT | RT18-32 | 2P | 1 | YE41032200000 | |
| 23 | FU2 | Fuse core | CHNT | 10x38 500V | 2A | 2 | YE46002000100 | |
| 24 | FU2 | Fuse | YINDA | FS-10 | 2A | 1 | YE41001000000 | |
| 25 | U | DC power | MEAN WELL | S-35-24 | IN=230V OUT=DC24V 1.5A | 1 | YE71352400100 | |
| 版本 Ver.C Notes: (1)Means it's not the material inside the control box. (2)Stands for optional. | | | | | | | | |
| | | | | Version | C | Title | SD-200H-LC | Drawing NO. |
| | | | | Designer | Approved by | Electrical Components list 1 | SD-200H-LC-CE-400V-C-6 | Scale |
| | | | | Proofread by | | | Standard | CE |
| | | | | Checked by | Date | 20160914 | Voltage | 400V |
| Mark | | | | Before modification | Modified by | Modify date | Frequency | 50HZ |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 8 |



- Ⓐ** Main power wire dia. **Ⓒ** The rated current of drying blower breaker **Ⓓ** Drying blower overload relay **Ⓜ** Default regeneration blower overload relay
Ⓛ The rated current of main power switch **Ⓚ** Default drying blower overload relay **Ⓝ** Regeneration blower wire dia. **Ⓟ** Regeneration blower power
Ⓦ The rated current of regeneration heater circuit breaker **Ⓛ** Drying blower power **Ⓛ** Regeneration blower overload relay **Ⓟ** Regeneration blower current
Ⓟ Regeneration heater wire dia. **Ⓛ** Regeneration heater current **Ⓟ** Regeneration heater current

| Mode | Symbol | Ver. | Ⓐ | Ⓑ | Ⓒ | Ⓓ | Ⓔ | Ⓛ | Ⓚ | Ⓛ | Ⓜ | Ⓝ | Ⓟ | Ⓟ | | | | |
|----------|--------|-------|------|----|----|----|----|------|------|------|-----|---------|-----|------|-----|-----|------|------|
| SD-400H | | Ver.B | 6.0 | 32 | 20 | 6 | 16 | 8.0 | 3.75 | 8.0 | 1.5 | 2.2-3.2 | 2.3 | 0.75 | 2.2 | 2.5 | 7.2 | 10.8 |
| SD-700H | | Ver.E | 10.0 | 50 | 32 | 10 | 20 | 12.0 | 5.5 | 12.0 | 1.5 | 3.5-5 | 3.6 | 1.5 | 3.5 | 4.0 | 10.0 | 15.0 |
| SD-1000H | | Ver.E | 16.0 | 90 | 63 | 20 | 32 | 27 | 13 | 19 | 1.5 | 7-10 | 7.4 | 3.75 | 7.4 | 6.0 | 15.0 | 22.5 |


| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|--|---------------------|--------------------|-------------|-------------|------------|--------------|-------------|--------|---------|---|---|--|----------------------------|--|-------------|--|----------------------------|--|-------|--------|------------|-------|------|--|
| Mark | | Before modification | After modification | Modified by | Modify date | Checked by | Proofread by | Designer | Drawer | Version | B | Title | | SD-400~1000H-LC | | Drawing NO. | | SD-40~1000H-LC-CE-400V-B-1 | | Scale | Page 1 | Totally 18 | Pages | | |
| | | | | | | | | Approved by | | | | Parameter List of Circuit Diagram | | SD-40~1000H-LC-CE-400V-B-1 | | CE | | Voltage | | 400V | | Frequency | | 50HZ | |
| | | | | | 20151202 | | | | | | |  信易電熱機械股份有限公司 Shini Plastics Technologies, Inc. | | | | | | | | | | | | | |

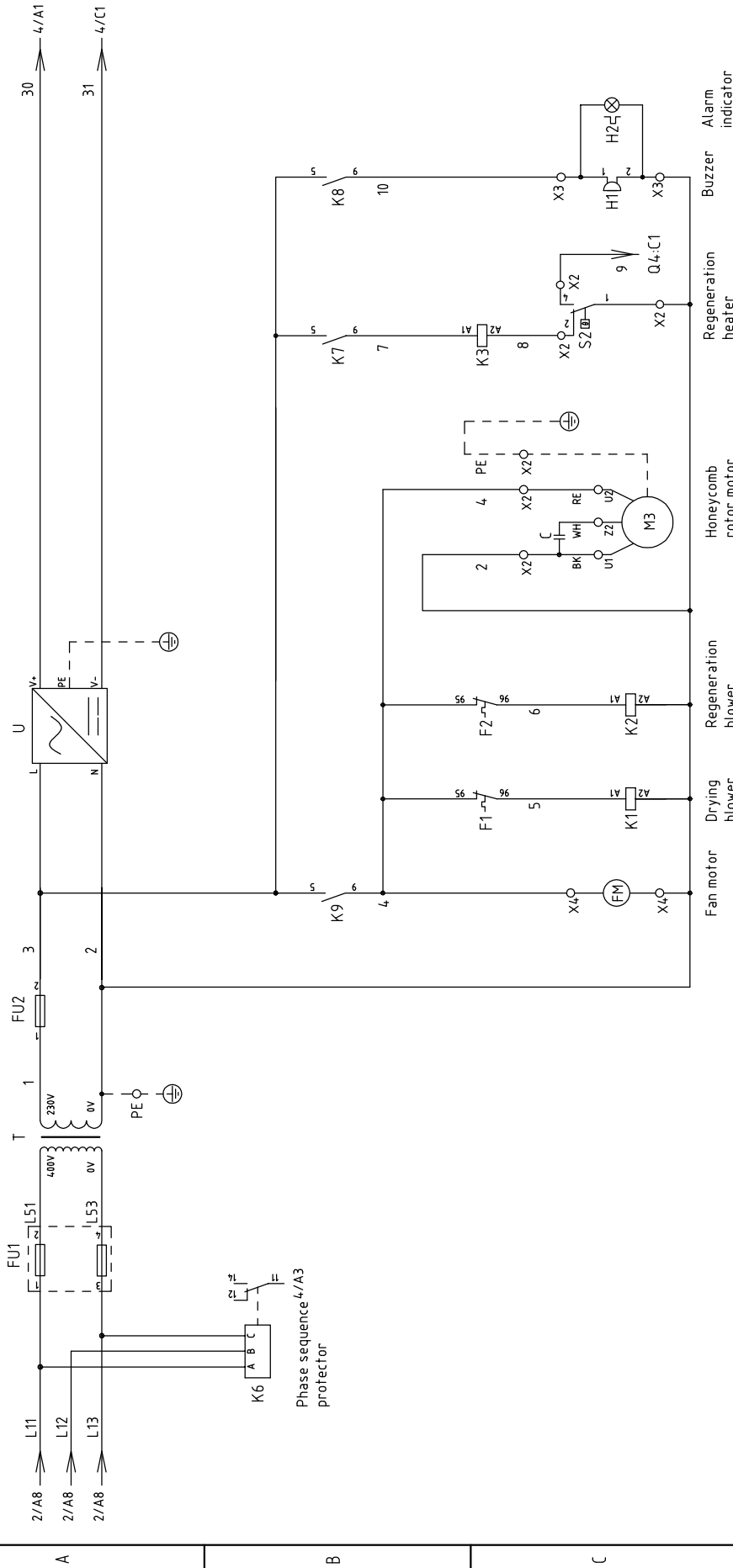



P = ①kW
IN = ①A
Drying boiler

P = ②kW
IN = ②A
Regeneration blower

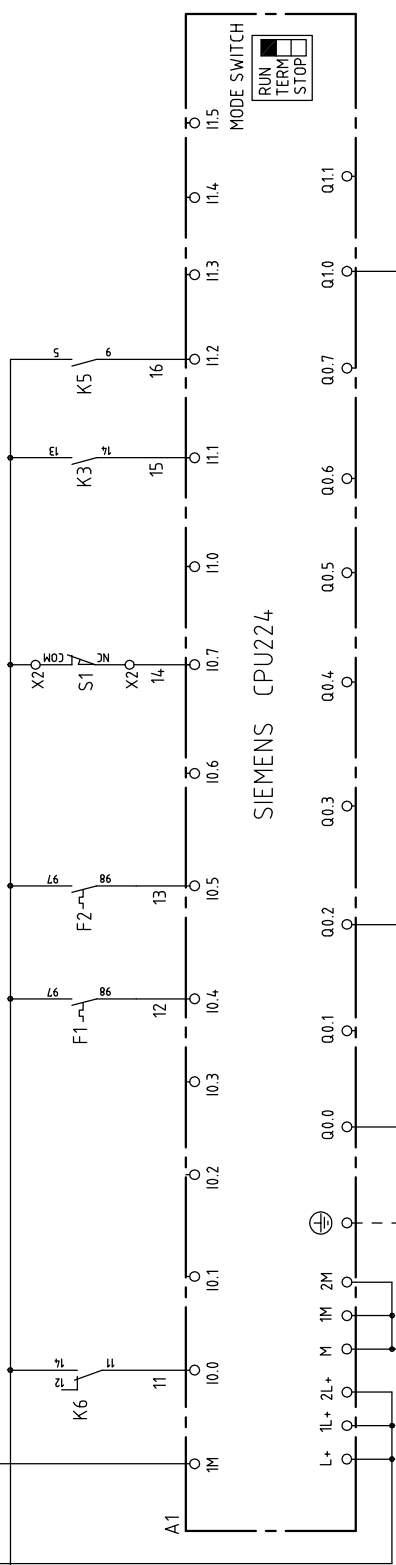
P = ③kW
IN = ③A
Regeneration heater

| | | | | | | | | | | | | | | | |
|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|
| 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | |
| Main Circuit Diagram | | | | | | | | | | | | | | | |
| Drawing NO. SD-400~1000H-LC | | | | | | | | | | | | | | | |
| Title SD-400~1000H-LC | | | | | | | | | | | | | | | |
| Standard CE | | | | | | | | | | | | | | | |
| Page 2 | | | | | | | | | | | | | | | |
| Totally 18 Pages | | | | | | | | | | | | | | | |
| Voltage 400V | | | | | | | | | | | | | | | |
| Frequency 50Hz | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | |
| 信易電熱機械股份有限公司 Shini Plastics Technologies, Inc. | | | | | | | | | | | | | | | |
| Date 20151022 | | | | | | | | | | | | | | | |
| Approved by | | | | | | | | | | | | | | | |
| Version A | | | | | | | | | | | | | | | |
| Checked by | | | | | | | | | | | | | | | |
| Modified by | | | | | | | | | | | | | | | |
| After modification | | | | | | | | | | | | | | | |
| Mark | | | | | | | | | | | | | | | |
| Before modification | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | |
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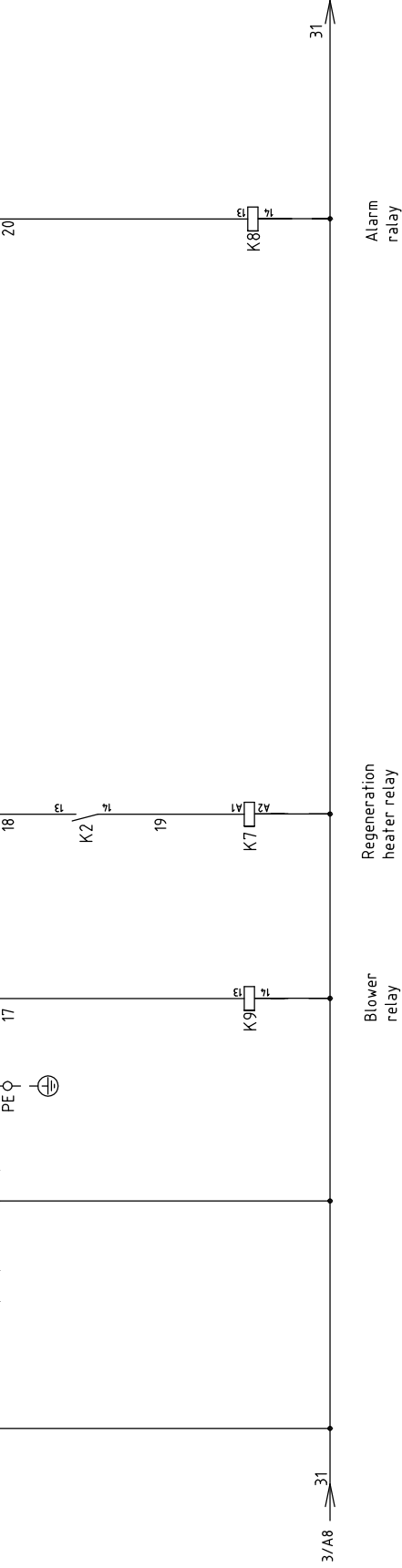


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| D | Mark | Before modification | After modification | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| | | Modified by | Modify date | 20151022 | | | | | | | |
| D | Version | A | | | | | | | | | |
| | | Approved by | | | | | | | | | |
| D | Title | SD-400~1000H-LC Control Circuit Diagram 1 | | | | | | | | | |
| | | Drawing NO. | SD-4.0~1000H-LC-CE-4.00V-A-3 | | | | | | | | |
| D | Scale | Standard | CE | | | | | | | | |
| | | Page | 3 | | | | | | | | |
| D | Pages | Totally 18 | | | | | | | | | |
| | | Voltage | 400V | | | | | | | | |
| D | Frequency | 50HZ | | | | | | | | | |
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Rotor micro switch



SIEMENS CPU224



| | | | | | | | | | | | | | | |
|------|---------------------|-------------|-------------|------------|--------------|----------|--------|---------|---|-----------------|---------------------------|----------------------------|----------|---------|
| Mark | Before modification | Modified by | Modify date | Checked by | Proofread by | Designer | Drawer | Version | A | Title | | Scale | | Page |
| | After modification | | | | | | | | | SD-400~1000H-LC | Control Circuit Diagram 2 | SD-40~1000H-LC-CE-400V-A-4 | Standard | 4 |
| | | | | | | | | | | | | | | Totally |
| | | | | | | | | | | | | | | 18 |
| | | | | | | | | | | | | | | Pages |
| | | | | | | | | | | | | | | 400V |
| | | | | | | | | | | | | | | 50HZ |
| | | | | | | | | | | | | | | 8 |



Drawing NO. SD-40~1000H-LC-CE-400V-A-4

Scale Standard CE

Page 4

Totally 18 Pages

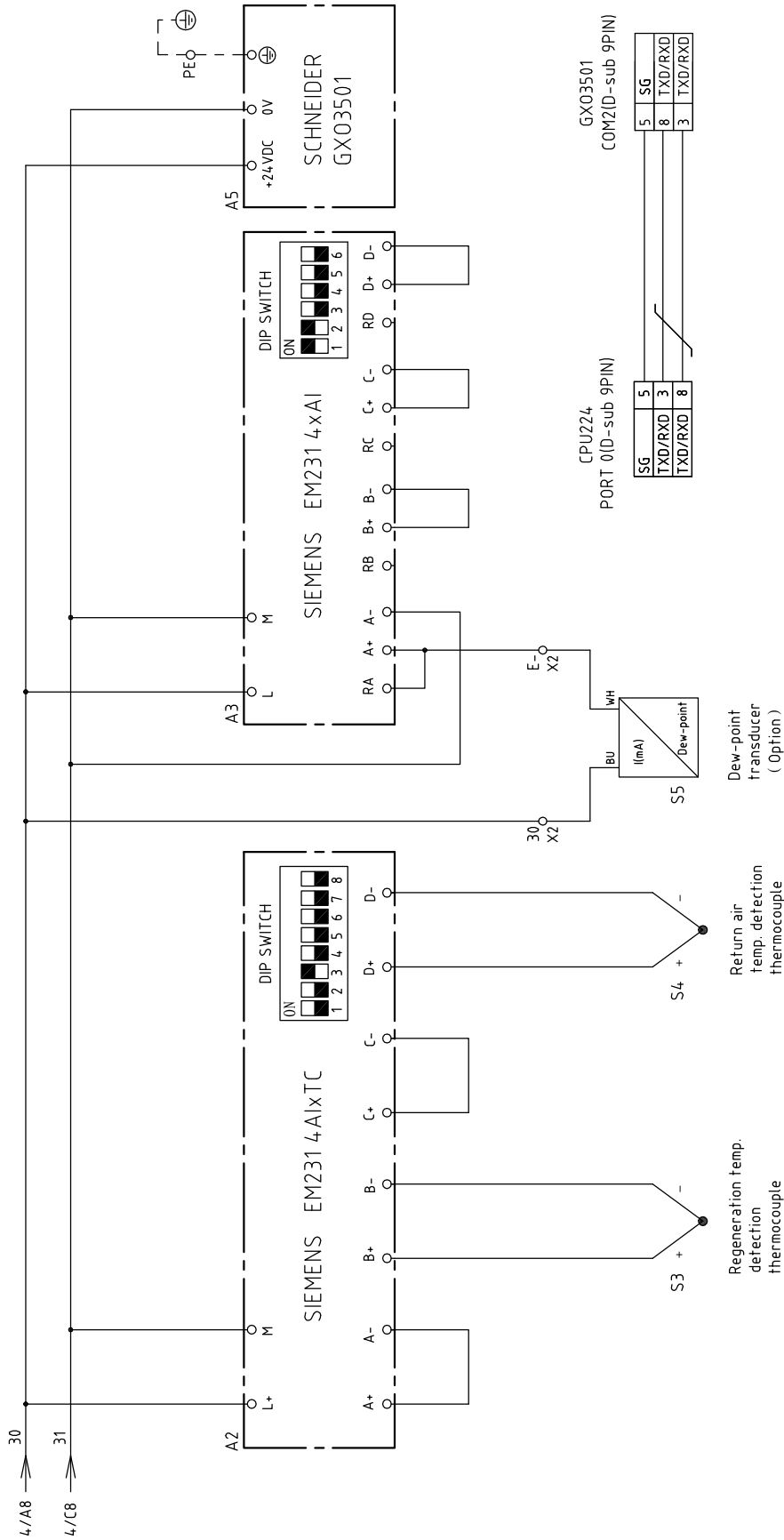
Voltage 400V

Frequency 50HZ

Blower relay

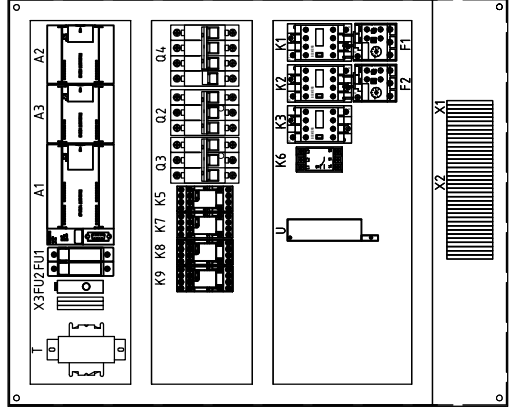
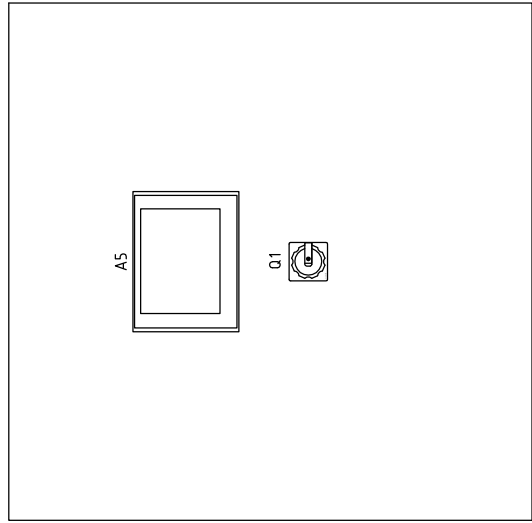
Regeneration heater relay

Alarm relay

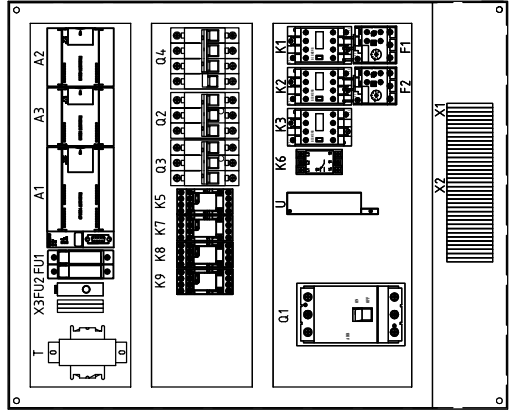


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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Title | | | SD-400~1000H-LC | | Drawing NO. | | |
| Version | | | A | | Page 5 | | |
| Designer | | | Control Circuit Diagram 3 | | Standard CE | | |
| Proofread by | | | | | Voltage 400V | | |
| Checked by | | | 20151022 | | Frequency 50Hz | | |
| Modified by | | | | | Totally 18 Pages | | |
| After modification | | | | | Shini 信易電熱機械股份有限公司 | | |
| Before modification | | | | | Shini Plastics Technologies, Inc. | | |
| Mark | | | | | SHINI | | |

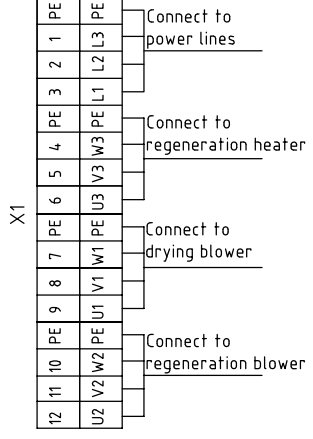
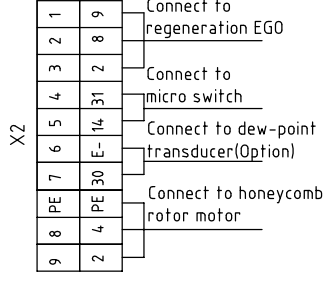
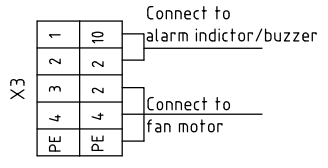
1 2 3 4 5 6 7 8



SD-400H



SD-700H and models above



| | | | | | | | | | | | |
|------|---------------------|-------------|-------------|---------|---|-------|---|-------------|-----------------------------|-----------|------------|
| Mark | Before modification | Modified by | Modify date | Version | A | Title | SD-400~1000H-LC Electrical Components Layout | Drawing NO. | SD-40-1000H-LC-CE-4,00V-A-6 | Scale | Page |
| | After modification | Modified by | Modify date | | | | | | | Standard | 6 |
| | | | | | | | | | | CE | Totally 18 |
| | | | | | | | | | | Voltage | 400V |
| | | | | | | | | | | Frequency | 50HZ |

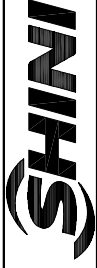


1 2 3 4 5 6 7 8

| 1 | 2 | | 3 | 4 | 5 | 6 | 7 | 8 | |
|-----|----------|--------------------------|--------------|--------------------|------------------------|---|--------|-----------------|--------|
| NO. | Symbol | Name | Manufacturer | Type | Specification | | Number | Material number | Remark |
| 1 | Q1 | Main switch | MOELLER | P1-32/EA/SVB | 32A | | 1 | YE10323200000 | |
| 2 | Q2 | Circuit-breaker | TECO | BM-63C 3P | 20A | | 1 | YE40302003000 | |
| 3 | Q3 | Circuit-breaker | TECO | BM-63C 3P | 6A | | 1 | YE40300603000 | |
| 4 | Q4 | Circuit-breaker | TECO | BM-63C 3P | 16A | | 1 | YE40301603000 | |
| 5 | | Excitation release | CHINT | MX | - | | 1 | YE40023560000 | |
| 6 | K1 | Contact | SIEMENS | 3RT6017-1AN21 | 230V 50/60Hz | | 1 | YE006017Z1000 | |
| 7 | K2 | Contact | SIEMENS | 3RT6016-1AN21 | 230V 50/60Hz | | 1 | YE006016Z1000 | |
| 8 | K3 | Contact | SIEMENS | 3RT6025-1AN20 | 230V 50/60Hz | | 1 | YE006025Z2000 | |
| 9 | F1 | Thermo overload relay | SIEMENS | 3RU6116-1JB0 | 7-10A | | 1 | YE01167100000 | |
| 10 | F2 | Thermo overload relay | SIEMENS | 3RU6116-1DB0 | 2.2-3.2A | | 1 | YE01160220000 | |
| 11 | K6 | Phase sequence protector | CHAOSHI | ABJ-10W | 400V 50/60Hz | | 1 | YE03103800000 | |
| 12 | K5 | Middle relay | WEIDMULLER | DRM270730LT | 230V 50/60Hz | | 1 | YE03270700000 | |
| 13 | K7,K8,K9 | Middle relay | WEIDMULLER | DRM270024LT | 24VDC | | 3 | YE03272400000 | |
| 14 | S1 | Micro switch | TEND | LXW5-11G1 | 250V ~5(4)A | | 1 | ----- | (1) |
| 15 | S2 | Temperature protector | TONGBAO | WR-A-50-300-1000-3 | 250V-5(4)A | | 1 | ----- | (1) |
| 16 | S3,S4 | Thermocouple | SHINI | ST-K | K | | 2 | ----- | (1) |
| 17 | S5 | Dew-point transducer | CS | CS 217-0EM | POWER=24VDC OUT=4-20mA | | 1 | YE90021700100 | (2) |
| 18 | A1 | PLC | SIEMENS | CPU224 DC/DC/DC | 24VDC | | 1 | YE81022400000 | |
| 19 | A2 | PLC Analog module | SIEMENS | EM231 4xTC | -- | | 1 | YE82023100100 | |
| 20 | A3 | PLC Analog module | SIEMENS | EM231 4xAI | -- | | 1 | YE82023100000 | (2) |
| 21 | A4 | Human-machine interface | SCHNEIDER | GX03501 | 24VDC | | 1 | YE80350100100 | |
| 22 | FU1 | Fuse base | CHNT | RT18-32 | 2P | | 1 | YE41032200000 | |
| 23 | | Fuse core | CHNT | 10x38 500V | 2A | | 2 | YE46002000100 | |
| 24 | FU2 | Fuse | YINDA | FS-10 | 2A | | 1 | YE41001000000 | |
| 25 | U | DC power | MEAN WELL | S-35-24 | IN=230V OUT=DC24V 1.5A | | 1 | YE71352400100 | |

Notes: (1)Means it's not the material inside the control box. (2)Stands for optional.


| D | E | F | G | H | I | J | K | L | M | N | O | P |
|------|---------------------|--------------------|-------------|-------------|------------|--------------|----------|--------|---------|-------------|------------------------------|-----------------------------|
| Mark | Before modification | After modification | Modified by | Modify date | Checked by | Proofread by | Designer | Drawer | Version | A | Title | Drawing NO. |
| | | | | | | | | | | A | SD-400H-LC | SD-40~1000H-LC-CE-400V-A-13 |
| | | | | | | | | | | Approved by | Electrical Components list 1 | Standard |
| | | | | | | | | | | | | Scale |
| | | | | | | | | | | | | CE |
| | | | | | | | | | | | | Page |
| | | | | | | | | | | | | 13 |
| | | | | | | | | | | | | Totally |
| | | | | | | | | | | | | 18 |
| | | | | | | | | | | | | Pages |
| | | | | | | | | | | | | 400V |
| | | | | | | | | | | | | 50HZ |
| | | | | | | | | | | | | 8 |



信易電熱機械股份有限公司
Shini Plastics Technologies, Inc.

| 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | |
|-----|----------|--------------------------|--------------|--------------------|------------------------|--------|-----------------|--------|--|---|--|---|--|---|--|
| NO. | Symbol | Name | Manufacturer | Type | Specification | Number | Material number | Remark | | | | | | | |
| 1 | Q1 | Main switch | ABB | A1A125TMF50 | 50A | 1 | YE4.1105200000 | | | | | | | | |
| 2 | Q2 | Circuit-breaker | TECO | BM-63C 3P | 32A | 1 | YE4.0303203000 | | | | | | | | |
| 3 | Q3 | Circuit-breaker | TECO | BM-63C 3P | 10A | 1 | YE4.0301003000 | | | | | | | | |
| 4 | Q4 | Circuit-breaker | TECO | BM-63C 3P | 20A | 1 | YE4.0302003000 | | | | | | | | |
| 5 | | Excitation release | CHINT | MX | - | 1 | YE4.0023560000 | | | | | | | | |
| 6 | K1 | Contact | SIEMENS | 3RT16025-1AN20 | 230V 50/60Hz | 1 | YE00602522000 | | | | | | | | |
| 7 | K2 | Contact | SIEMENS | 3RT16016-1AN21 | 230V 50/60Hz | 1 | YE00601621000 | | | | | | | | |
| 8 | K3 | Contact | SIEMENS | 3RT16027-1AN20 | 230V 50/60Hz | 1 | YE00602722000 | | | | | | | | |
| 9 | F1 | Thermo overload relay | SIEMENS | 3RU6026-4AB0 | 11-16A | 1 | YE0161164.0000 | | | | | | | | |
| 10 | F2 | Thermo overload relay | SIEMENS | 3RU6116-1FB0 | 3.5-5A | 1 | YE01160350000 | | | | | | | | |
| 11 | K6 | Phase sequence protector | CHAOSHI | ABJ-10W | 400V 50/60Hz | 1 | YE03103800000 | | | | | | | | |
| 12 | K5 | Middle relay | WEIDMULLER | DRM270730L T | 230V 50/60Hz | 1 | YE03270700000 | | | | | | | | |
| 13 | K7,K8,K9 | Middle relay | WEIDMULLER | DRM270024L T | 24VDC | 3 | YE032724.00000 | | | | | | | | |
| 14 | S1 | Micro switch | TEND | LXW5-11G1 | 250V ~5(4)A | 1 | ----- | (1) | | | | | | | |
| 15 | S2 | Temperature protector | TONGBAO | WR-A-50-300-1000-3 | 250V-5(4)A | 1 | ----- | (1) | | | | | | | |
| 16 | S3,S4 | Thermocouple | SHINI | ST-K | K | 2 | ----- | (1) | | | | | | | |
| 17 | S5 | Dew-point transducer | CS | CS 217-0EM | POWER=24VDC OUT=4-20mA | 1 | YE90021700100 | (2) | | | | | | | |
| 18 | A1 | PLC | SIEMENS | CPU224 DC/DC/DC | 24VDC | 1 | YE810224.00000 | | | | | | | | |
| 19 | A2 | PLC Analog module | SIEMENS | EM231 4xTC | -- | 1 | YE82023100100 | | | | | | | | |
| 20 | A3 | PLC Analog module | SIEMENS | EM231 4xAI | -- | 1 | YE82023100000 | (2) | | | | | | | |
| 21 | A4 | Human-machine interface | SCHNEIDER | GX03501 | 24VDC | 1 | YE80350100100 | | | | | | | | |
| 22 | FU1 | Fuse base | CHNT | RT18-32 | 2P | 1 | YE4.1032200000 | | | | | | | | |
| 23 | | Fuse core | CHNT | 10x38 500V | 2A | 2 | YE4.6002000100 | | | | | | | | |
| 24 | FU2 | Fuse | YINDA | FS-10 | 2A | 1 | YE4.1001000000 | | | | | | | | |
| 25 | U | DC power | MEAN WELL | S-35-24 | IN=230V OUT=DC24V 1.5A | 1 | YE713524.00100 | | | | | | | | |

Notes: (1)Means it's not the material inside the control box. (2)Stands for optional.

| | | | | | | | | | |
|---|---------------------|-------------|---|------------|------------------|-------------------|--------|-------------------|--|
| | | | Drawing NO. SD-40~1000H-LC-CE-4.00V-A-15 | | | Scale Standard | | Page 15 | |
| Title SD-700H-LC Electrical Components list 1 | | | SD-40~1000H-LC-CE-4.00V-A-15 | | | CE | | Totally 18 Pages | |
|  信易电热机械股份有限公司 Shini Plastics Technologies, Inc. | | | Version A | | | Voltage 400V | | Frequency 50HZ | |
| | | | Approved by | | Date 20151022 | | | | |
| Mark | Before modification | Modified by | Modify date | Checked by | Proofread by | Designer | Drawer | | |

