

ARCTIGO IS - AC motors single phase

drawing number: 9460139999



BOARD RATED VALUE

VOLTAGE DC	---
VOLTAGE AC	230 Vac \pm 10%
FREQUENCY	50 - 60 Hz \pm 2%
POWER MAX	24,5 KW
SHORT CIRCUIT CURRENT (Icc)	-
IP DEGREE WITH CLOSED DOORS	IP54
IP DEGREE WITH OPENED DOORS	IP20

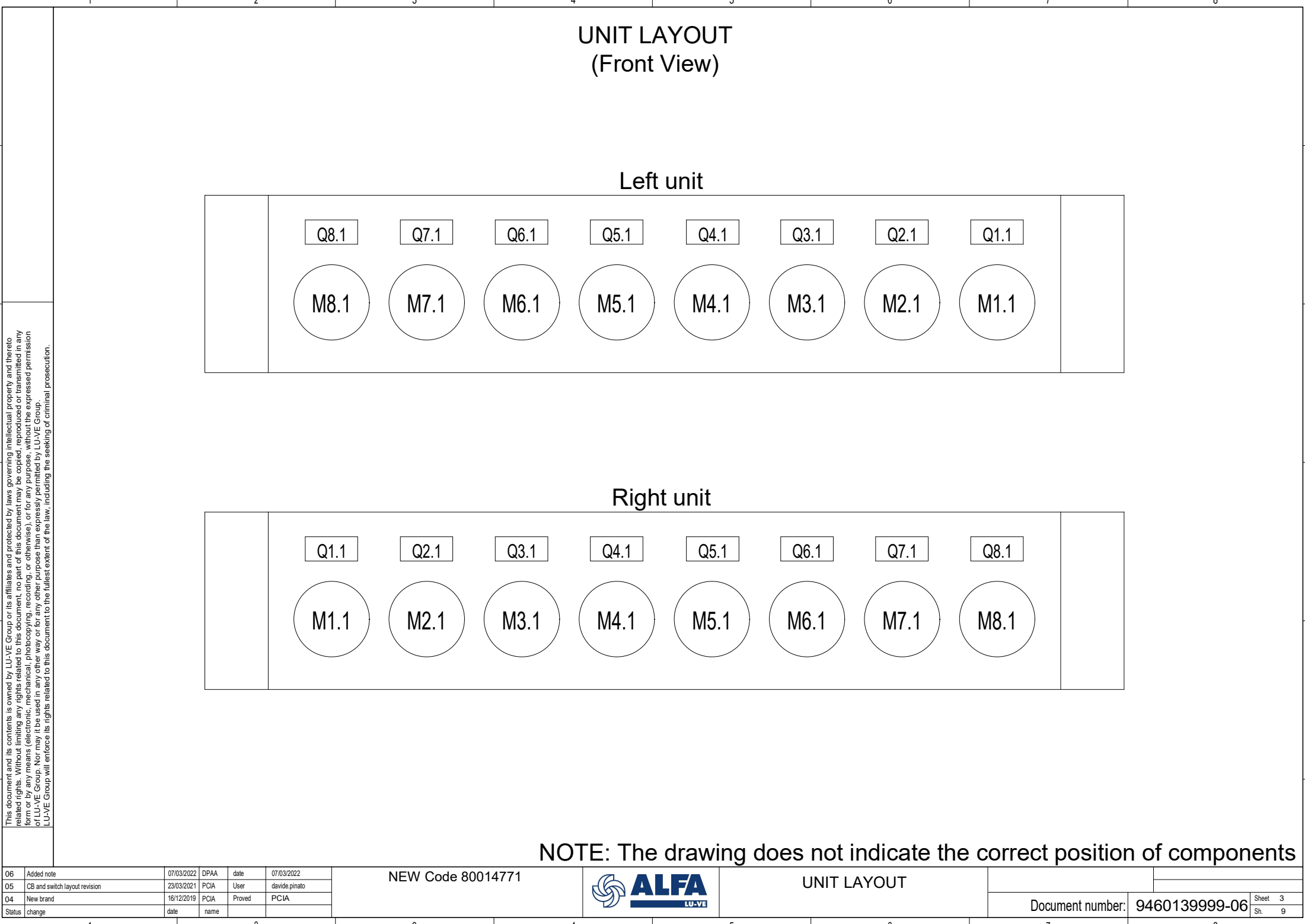
06	Added note	07/03/2022	DPAA	date	07/03/2022
05	CB and switch layout revision	23/03/2021	PCIA	User	davide.pinato
04	New brand	16/12/2019	PCIA	Provided	PCIA
Status	change	date	name		

NEW Code 80014771



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1

2

3

4

5

6

7

8

A

B

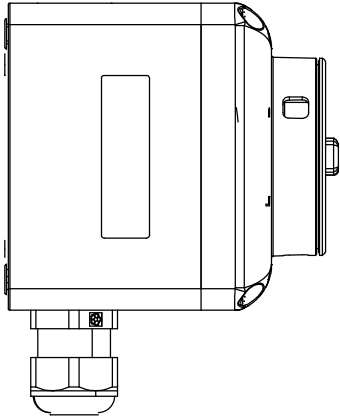
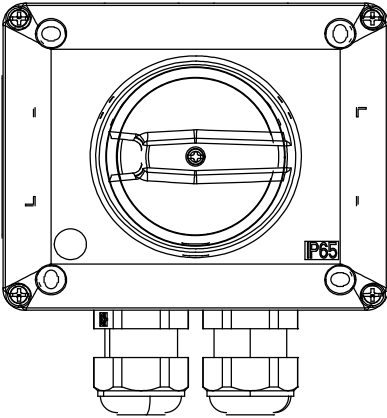
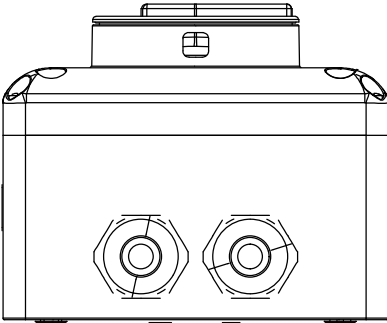
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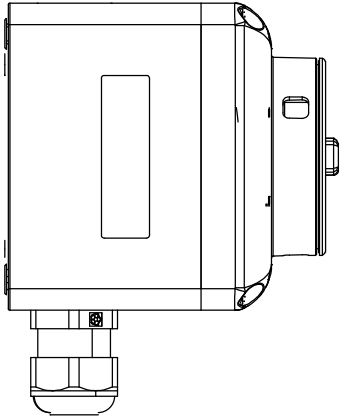
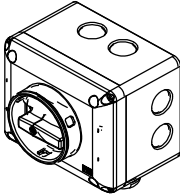
D

E

F

Q1.1 - Q8.1






Technical data

Material: Polycarbonate
IP protection class: IP65
Color: Grey/Black
Rated insulation voltage: 690V
Rated operational current:16A
Ambient temperature: until -40°C

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06	Added note	07/03/2022	DPAA	date	07/03/2022	NEW Code 80014771		SWITCH LAYOUT				
05	CB and switch layout revision	23/03/2021	PCIA	User	davide.pinato							
04	New brand	16/12/2019	PCIA	Proved	PCIA							
Status	change	date	name									

1

2

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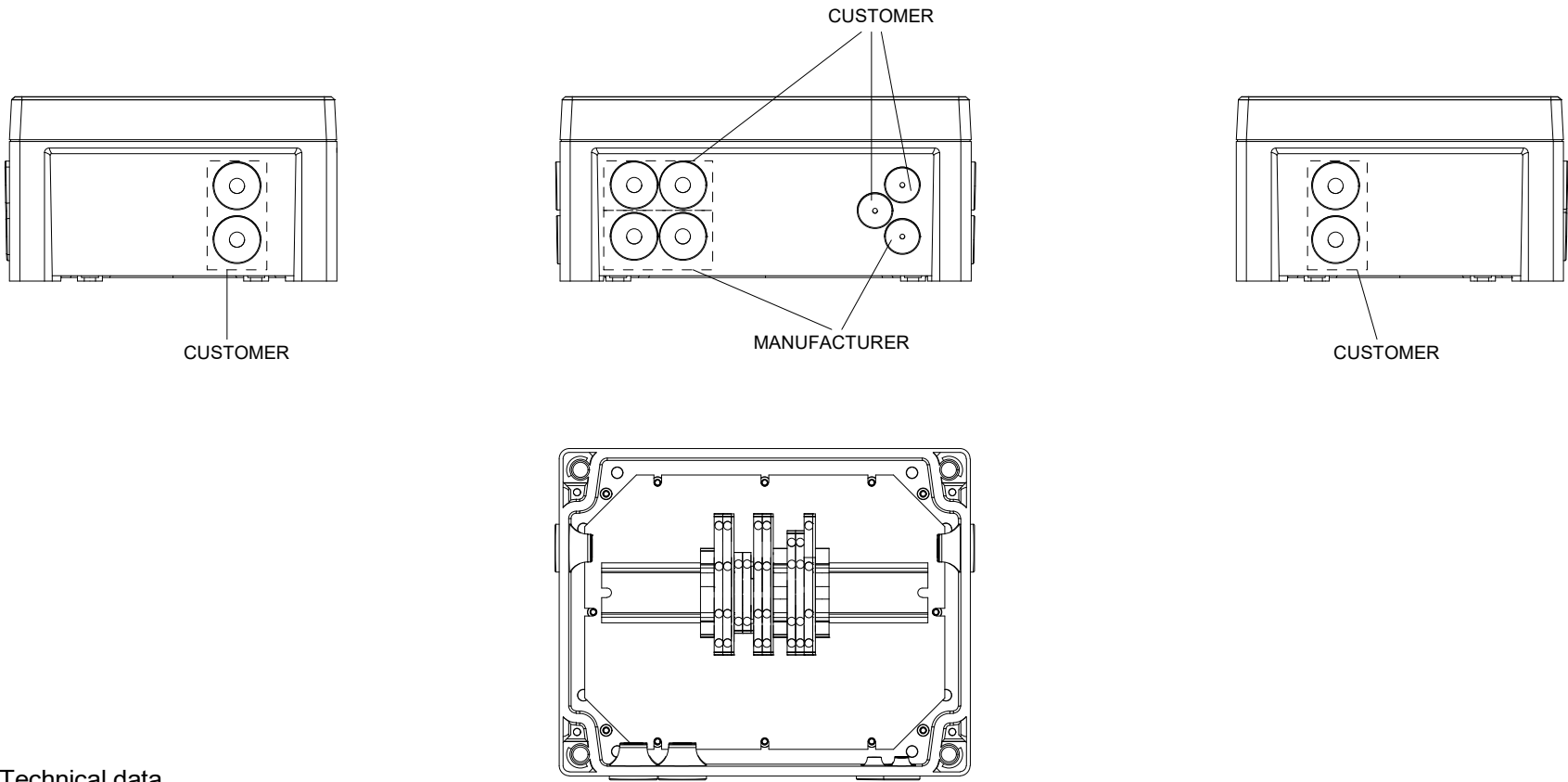
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Sheet 4
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CB1

CONNECTION BOX FOR 1-2 FAN MOTORS



Technical data

Material: ABS
IP protection class: IP65
Color: RAL7035
Rated insulation voltage: 690V
Ambient temperature: -40/+80°C
Dimensions: 240x190x110

06	Added note	07/03/2022	DPAA	date	07/03/2022
05	CB and switch layout revision	23/03/2021	PCIA	User	davide.pinato
04	New brand	16/12/2019	PCIA	Provided	PCIA
Status	change	date	name		

NEW Code 80014771

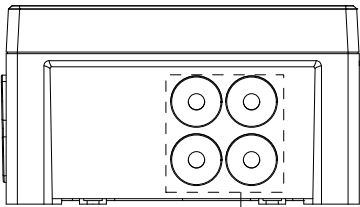


CB LAYOUT

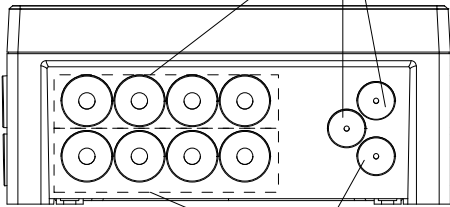
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CB1

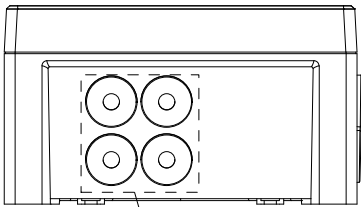
CONNECTION BOX FOR 3-4 FAN MOTORS



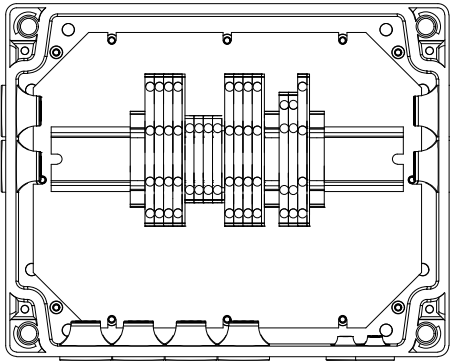
CUSTOMER



MANUFACTURER



CUSTOMER



Technical data

Material: ABS
IP protection class: IP65
Color: RAL7035
Rated insulation voltage: 690V
Ambient temperature: -40/+80°C
Dimensions: 240x190x110

06	Added note	07/03/2022	DPAA	date	07/03/2022
05	CB and switch layout revision	23/03/2021	PCIA	User	davide.pinato
04	New brand	16/12/2019	PCIA	Provided	PCIA
Status	change	date	name		

NEW Code 80014771



CB LAYOUT

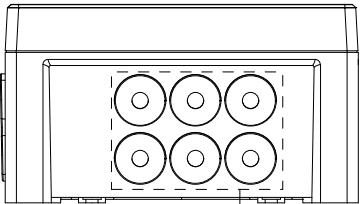
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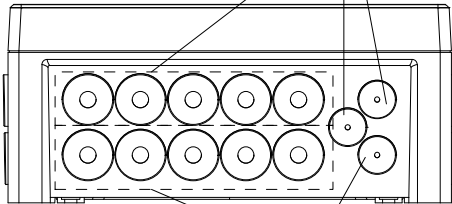
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CB1

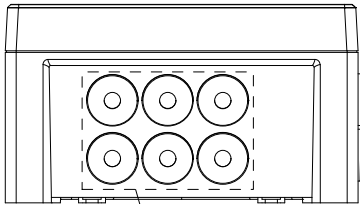
CONNECTION BOX FOR 5-6 FAN MOTORS



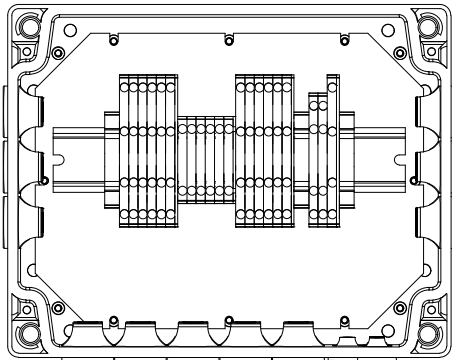
CUSTOMER



MANUFACTURER



CUSTOMER



Technical data

Material: ABS
IP protection class: IP65
Color: RAL7035
Rated insulation voltage: 690V
Ambient temperature: -40/+80°C
Dimensions: 240x190x110

06	Added note	07/03/2022	DPAA	date	07/03/2022
05	CB and switch layout revision	23/03/2021	PCIA	User	davide.pinato
04	New brand	16/12/2019	PCIA	Provid	PCIA
Status	change	date	name		

NEW Code 80014771



CB LAYOUT

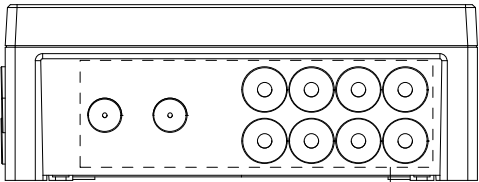
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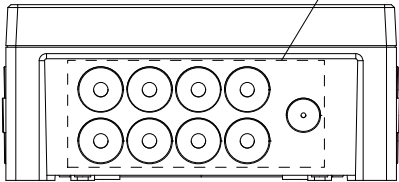
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CB1

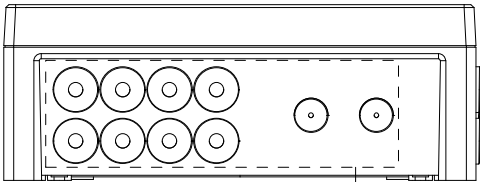
CONNECTION BOX FOR 7-8 FAN MOTORS



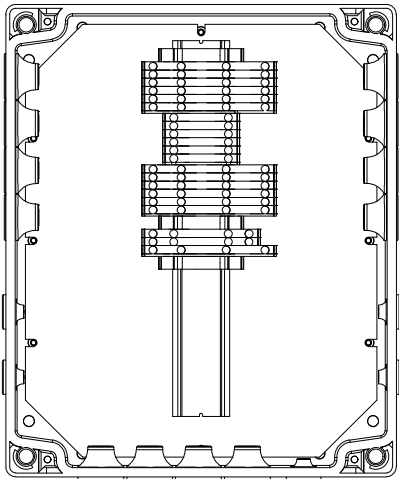
CUSTOMER



MANUFACTURER



CUSTOMER



Technical data

Material: ABS
IP protection class: IP65
Color: RAL7035
Rated insulation voltage: 690V
Ambient temperature: -40/+80°C
Dimensions: 290x240x110

06	Added note	07/03/2022	DPAA	date	07/03/2022
05	CB and switch layout revision	23/03/2021	PCIA	User	davide.pinato
04	New brand	16/12/2019	PCIA	Provided	PCIA
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NEW Code 80014771



CB LAYOUT

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NOTE: switch for maintenance before motors are optional
NOTE: fans number according to the order
NOTE: thermo-contacts are connected to CB1 only when possible
If thermo-contacts are not connected to CB1 they are already internally wired on the fans.

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AC MOTORS POWER CONNECTION
1-phase motors

+CB1

M1-L1 M1-N M1-PE M1-TKA M1-TKB
M2-L1 M2-N M2-PE M2-TKA M2-TKB
M3-L1 M3-N M3-PE M3-TKA M3-TKB
M4-L1 M4-N M4-PE M4-TKA M4-TKB
M5-L1 M5-N M5-PE M5-TKA M5-TKB
M6-L1 M6-N M6-PE M6-TKA M6-TKB
M7-L1 M7-N M7-PE M7-TKA M7-TKB
M8-L1 M8-N M8-PE M8-TKA M8-TKB

-Q1.1 -Q2.1 -Q3.1 -Q4.1 -Q5.1 -Q6.1 -Q7.1 -Q8.1

-M1.1 -M2.1 -M3.1 -M4.1 -M5.1 -M6.1 -M7.1 -M8.1

L N PE TK

S1.1 S2.1 S3.1 S4.1 S5.1 S6.1 S7.1 S8.1

BN BU GIVE VH PK

1 2 3 4 5 6

NEW Code 80014771

ALFA LU-VE

FANS CONNECTION


06 Added note 07/03/2022 DPAA date 07/03/2022
05 CB and switch layout revision 23/03/2021 PCIA User davide.pinato
04 New brand 16/12/2019 PCIA Provided PCIA
Status change date name

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O5	CB and switch layout revision	23/03/2021	PCIA	User	davide.pinato
O4	New brand	16/12/2019	PCIA	Provided	PCIA
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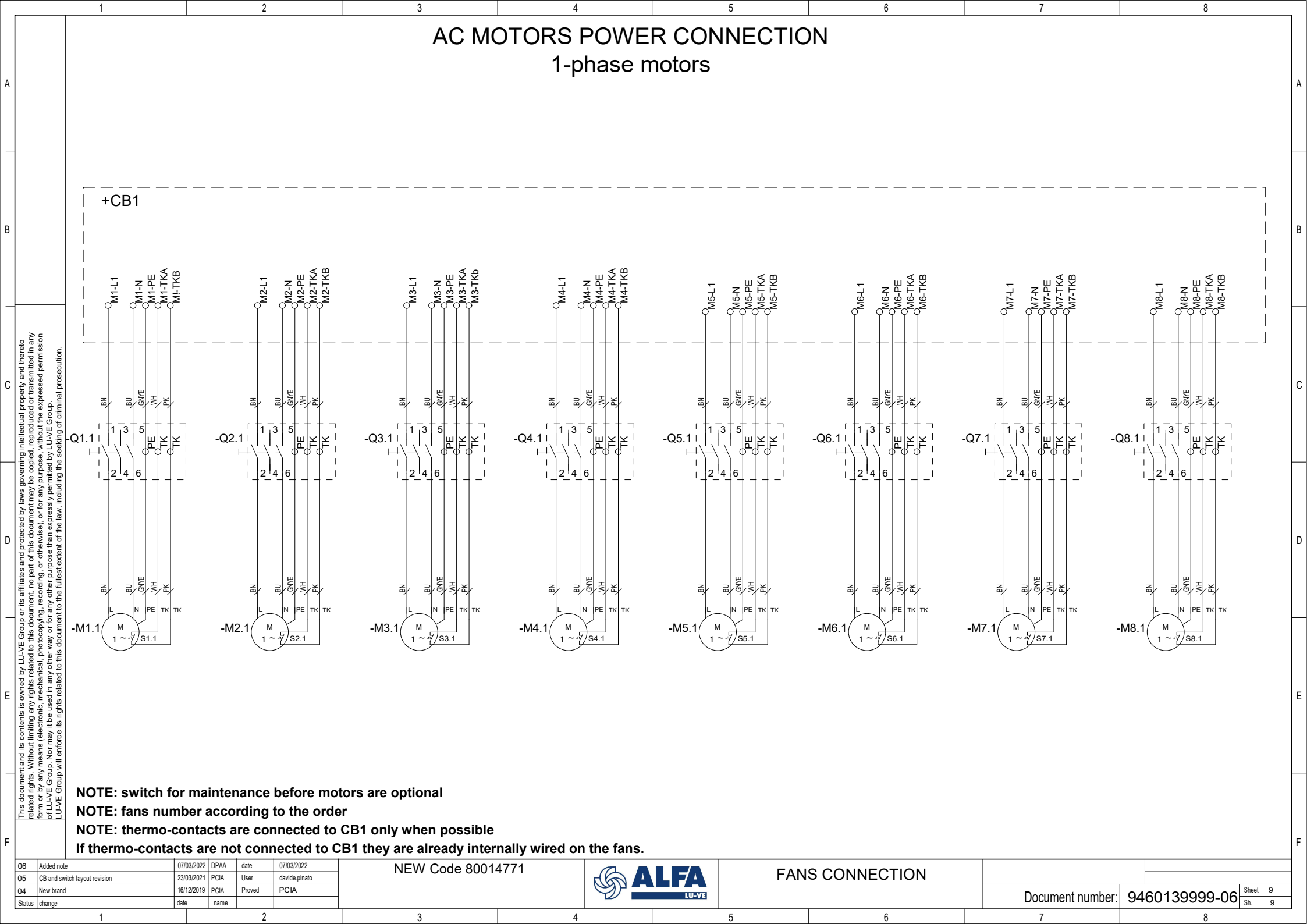
NEW Code 80014771



FANS CONNECTION

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The diagram illustrates the AC power connection for eight 1-phase motors (M1-L1 to M8-TKB) under a common busbar (+CB1). Each motor circuit includes a main switch (S1-S8) and a thermal relay (TK). The wiring shows connections for Line (L), Neutral (N), Phase (PE), and Thermoswitch (TK) terminals. The motors are labeled as follows: M1-L1, M1-N, M1-PE, M1-TKA, M1-TKB; M2-L1, M2-N, M2-PE, M2-TKA, M2-TKB; M3-L1, M3-N, M3-PE, M3-TKA, M3-TKB; M4-L1, M4-N, M4-PE, M4-TKA, M4-TKB; M5-L1, M5-N, M5-PE, M5-TKA, M5-TKB; M6-L1, M6-N, M6-PE, M6-TKA, M6-TKB; M7-L1, M7-N, M7-PE, M7-TKA, M7-TKB; M8-L1, M8-N, M8-PE, M8-TKA, M8-TKB.




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FANS CONNECTION

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AC MOTORS POWER CONNECTION
1-phase motors

+CB1

M1-L1 M1-N M1-PE M1-TKA M1-TKB
Q1.1
M1.1
S1.1

M2-L1 M2-N M2-PE M2-TKA M2-TKB
Q2.1
M2.1
S2.1

M3-L1 M3-N M3-PE M3-TKA M3-TKB
Q3.1
M3.1
S3.1


M4-L1 M4-N M4-PE M4-TKA M4-TKB
Q4.1
M4.1
S4.1

M5-L1 M5-N M5-PE M5-TKA M5-TKB
Q5.1
M5.1
S5.1

M6-L1 M6-N M6-PE M6-TKA M6-TKB
Q6.1
M6.1
S6.1

M7-L1 M7-N M7-PE M7-TKA M7-TKB
Q7.1
M7.1
S7.1

M8-L1 M8-N M8-PE M8-TKA M8-TKB
Q8.1
M8.1
S8.1

06	Added note	07/03/2022	DPAA	date	07/03/2022	NEW Code 80014771		FANS CONNECTION	Document number: 9460139999-06	Sheet	9
05	CB and switch layout revision	23/03/2021	PCIA	User	davide.pinato					Sh.	9
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Status	change	date	name								

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AC MOTORS POWER CONNECTION

1-phase motors

+CB1

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AC MOTORS POWER CONNECTION

1-phase motors

+CB1

M1-L1, **M1-N**, **M1-PE**, **M1-TKA**, **M1-TKB**

-M1.1, **S1.1**

M2-L1, **M2-N**, **M2-PE**, **M2-TKA**, **M2-TKB**

-M2.1, **S2.1**

M3-L1, **M3-N**, **M3-PE**, **M3-TKA**, **M3-TKB**

-M3.1, **S3.1**

M4-L1, **M4-N**, **M4-PE**, **M4-TKA**, **M4-TKB**

-M4.1, **S4.1**

M5-L1, **M5-N**, **M5-PE**, **M5-TKA**, **M5-TKB**

-M5.1, **S5.1**

M6-L1, **M6-N**, **M6-PE**, **M6-TKA**, **M6-TKB**

-M6.1, **S6.1**

M7-L1, **M7-N**, **M7-PE**, **M7-TKA**, **M7-TKB**

-M7.1, **S7.1**

M8-L1, **M8-N**, **M8-PE**, **M8-TKA**, **M8-TKB**

-M8.1, **S8.1**

Q1.1, **Q2.1**, **Q3.1**, **Q4.1**, **Q5.1**, **Q6.1**, **Q7.1**, **Q8.1**

NOTE: switch for maintenance before motors are optional
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