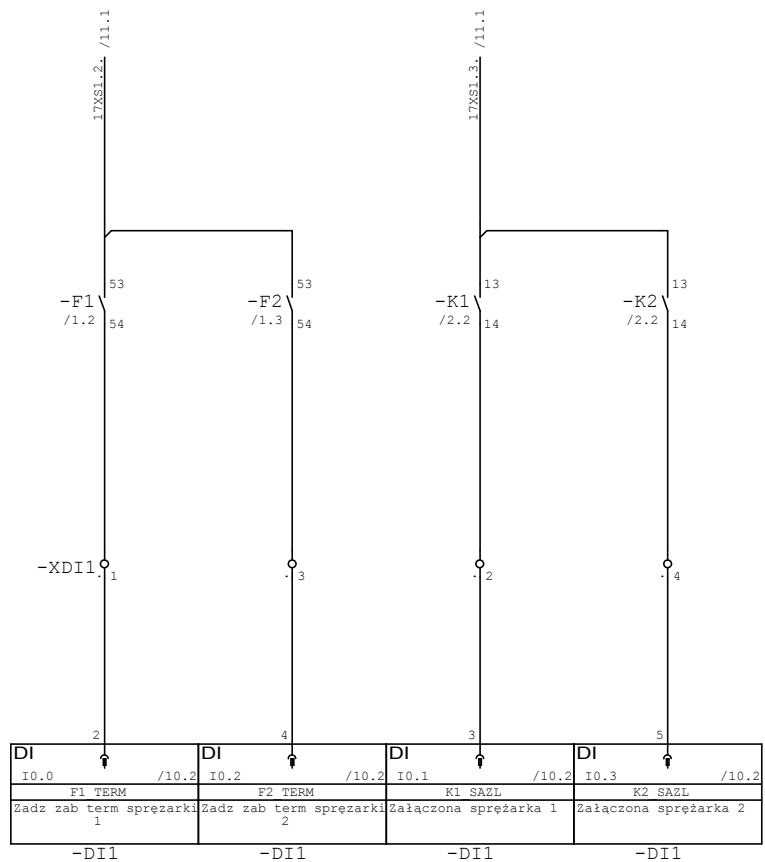
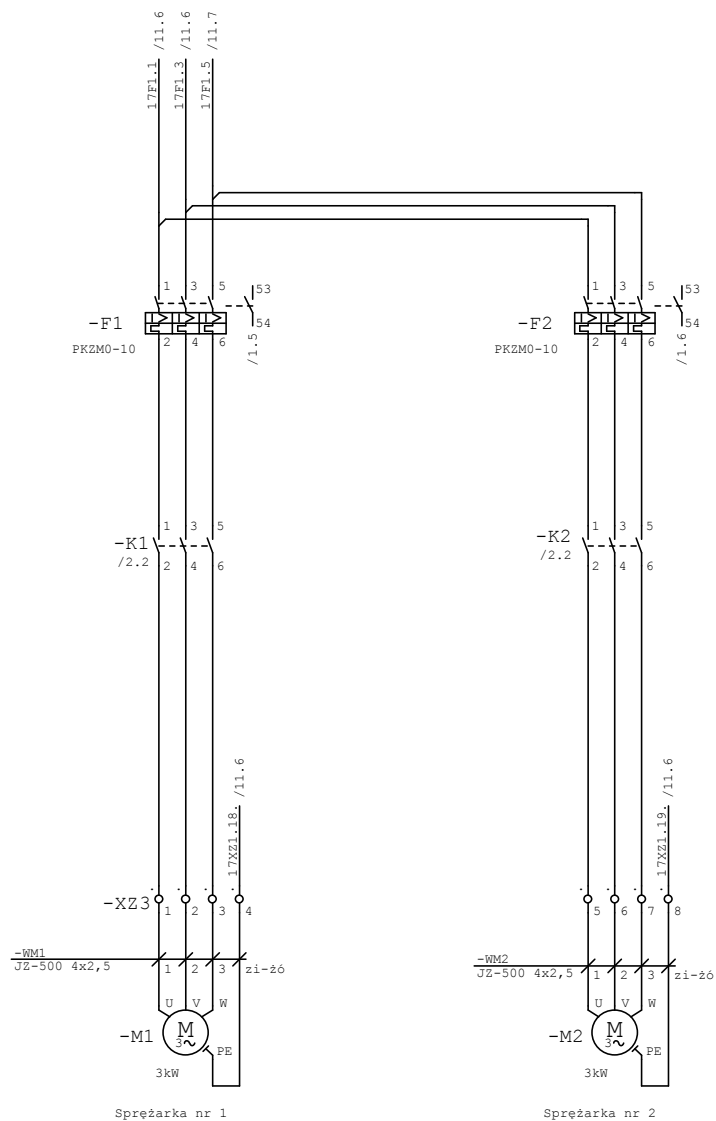


Zawartość projektu: WOD-KAN_Bełchatów

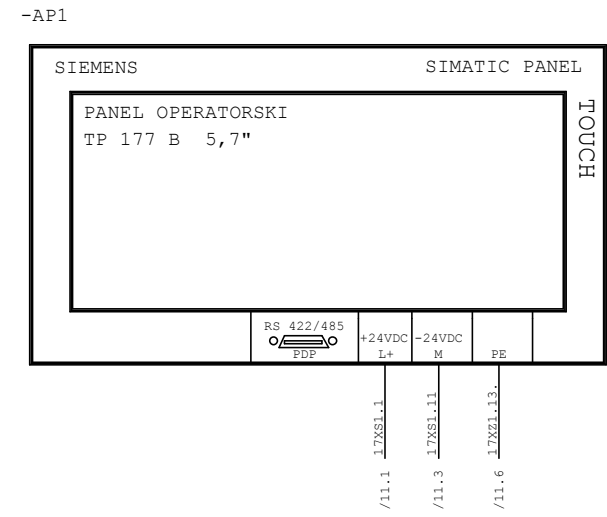
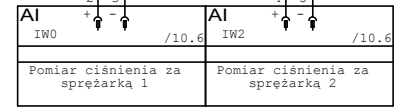
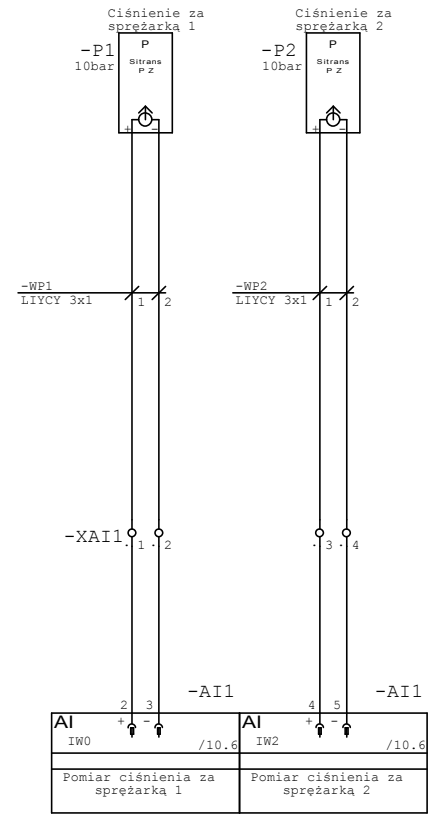
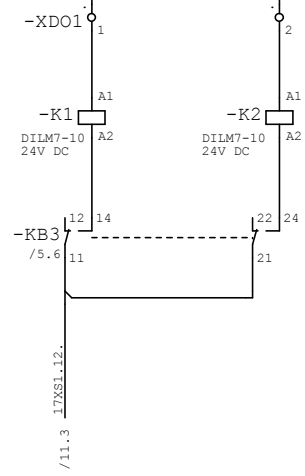
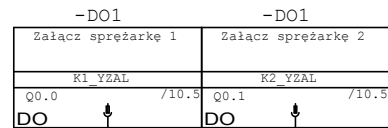
=Dmuchawy_sprężarki

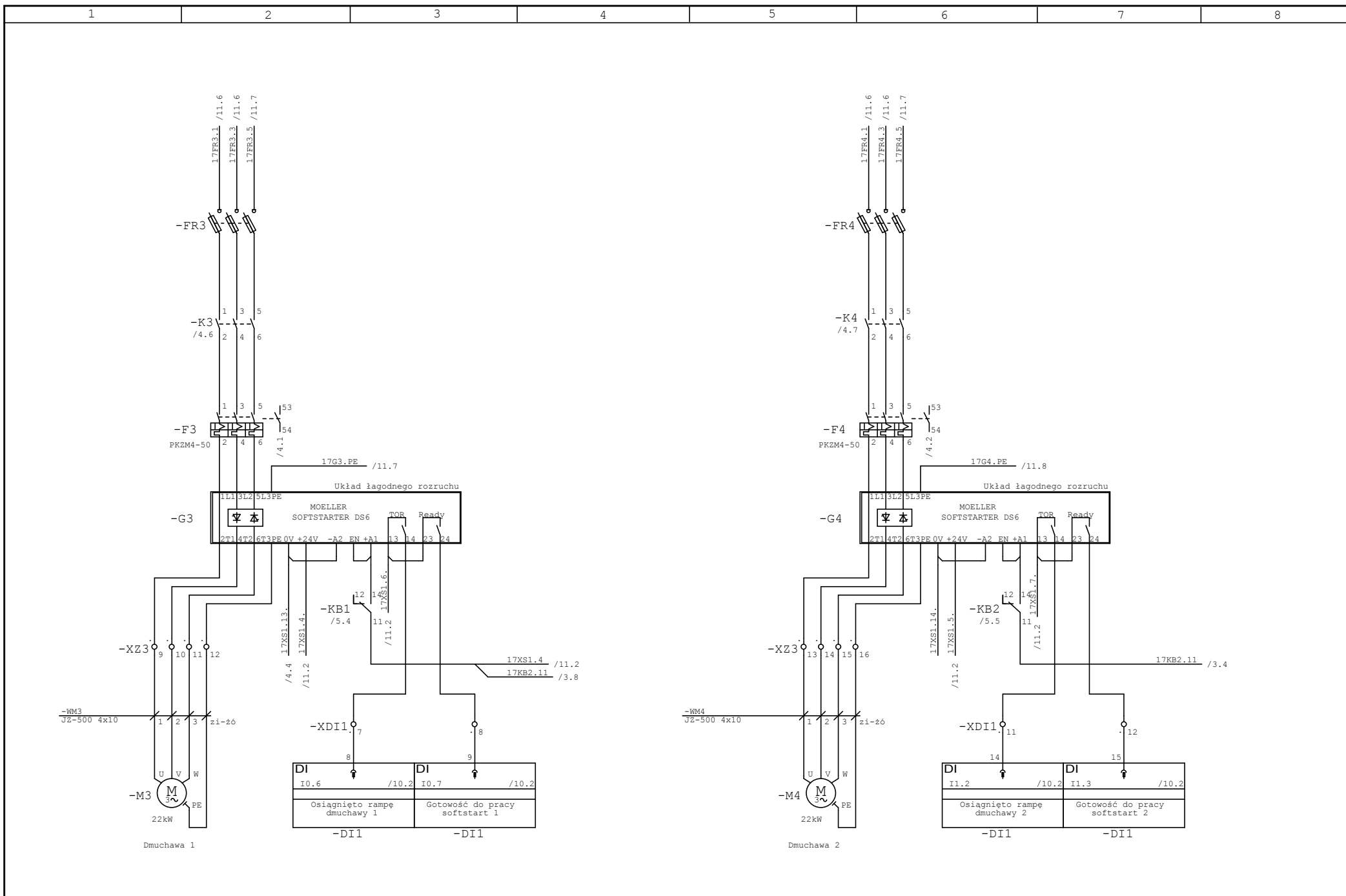
Strona:1

| Lp. | Zawartość strony projektu | Obiekt | Nr strony |
|-----|---|--------------------|-----------|
| 1 | Zasilania sprężarki nr 1 i 2 | =Dmuchawy_sprężark | 0001 |
| 2 | Pomiary ciśnień za sprężarkami, panel operatorski | =Dmuchawy_sprężark | 0002 |
| 3 | Zasilania dmuchaw 1 i 2 | =Dmuchawy_sprężark | 0003 |
| 4 | Sterowania dmuchaw 1 i 2 | =Dmuchawy_sprężark | 0004 |
| 5 | Pomiary ciśnień za dmuchawami 1 i 2 | =Dmuchawy_sprężark | 0005 |
| 6 | Pompy ścieków | =Dmuchawy_sprężark | 0006 |
| 7 | Sterowanie pompami ścieków | =Dmuchawy_sprężark | 0007 |
| 8 | Rezerwy sterownika | =Dmuchawy_sprężark | 0008 |
| 9 | Rezerwy sterownika c. d. | =Dmuchawy_sprężark | 0009 |
| 10 | Obłożenie sterownika | =Dmuchawy_sprężark | 0010 |
| 11 | Listwy zasilające 400 i 230V AC oraz 24V DC | =Dmuchawy_sprężark | 0011 |
| 12 | Listwa XAI1 | =Dmuchawy_sprężark | 0001 |
| 13 | Listwa XDI1 | =Dmuchawy_sprężark | 0002 |
| 14 | Listwa XDO1 | =Dmuchawy_sprężark | 0003 |
| 15 | Listwa XS1 | =Dmuchawy_sprężark | 0004 |
| 16 | Listwa XS2 | =Dmuchawy_sprężark | 0005 |
| 17 | Listwa XZ1 | =Dmuchawy_sprężark | 0006 |
| 18 | Listwa XZ2 | =Dmuchawy_sprężark | 0007 |
| 19 | Listwa XZ3 | =Dmuchawy_sprężark | 0008 |
| 20 | Lista kabli | =Dmuchawy_sprężark | 0001 |
| 21 | Lista materiałowa | =Dmuchawy_sprężark | 0001 |
| | | | |
| | | | |
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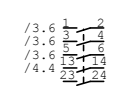
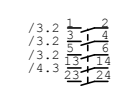
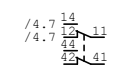
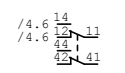
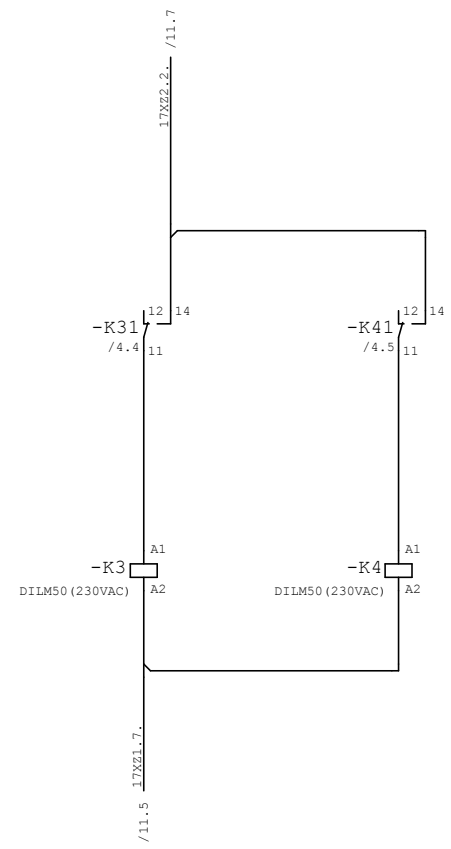
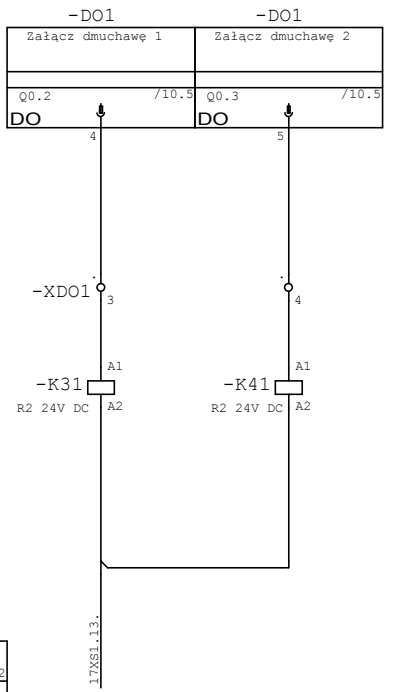
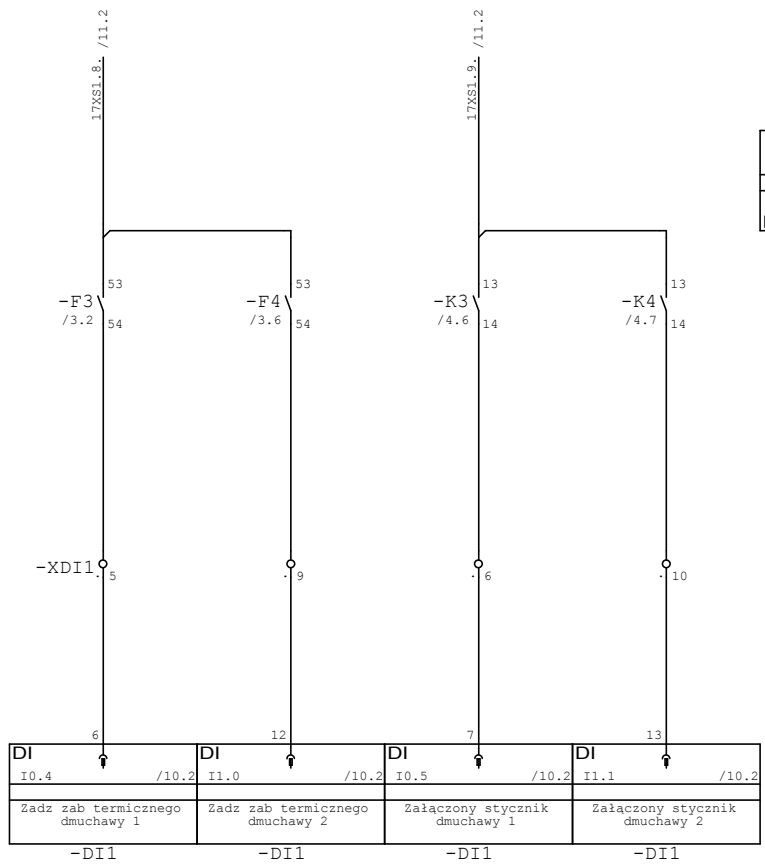


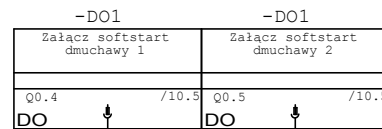
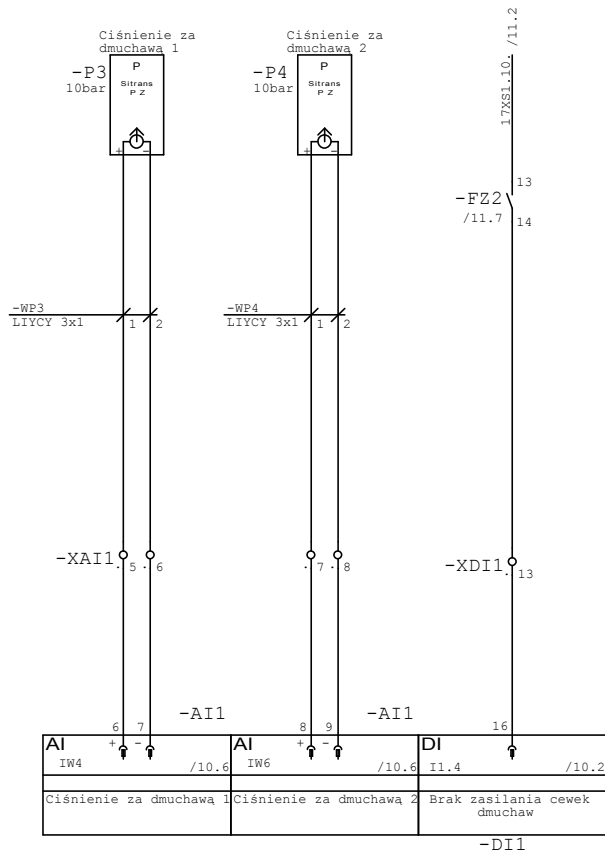
| | | | |
|---------------------------|---------------------------|-----------------------|-----------------------|
| DI | DI | DI | DI |
| I0.0 | I0.2 | I0.1 | I0.3 |
| F1 TERM /10.2 | F2 TERM /10.2 | K1 SAZL /10.2 | K2 SAZL /10.2 |
| Zadz zab term sprężarki 1 | Zadz zab term sprężarki 2 | Załączona sprężarka 1 | Załączona sprężarka 2 |
| -DI1 | -DI1 | -DI1 | -DI1 |





| | | | | | |
|--|-------------------|----------------------|---|-------------------------|---------------------|
| Wykonano dla | Sprawdził | Opracował |  ABCAUTOMA Sp. J. Andrzej Dąbrowski Automatyka Mikroprocesorowa 97-400 Bełchatów ul. Przemysłowa 9 Tel. 044 733 13 28 Fax. 044 733 13 27 | Zasilania dmuchaw 1 i 2 | =Dmuchawy sprężarki |
| Zakład Wodociągów i Kanalizacji "MOD.-KAN ul. Św. Faustyny Kowalskiej 9 97-400 Bełchatów | Andrzej Dąbrowski | Krzysztof Szteleblak | | Dmuchawy i sprężarki | + |
| | 12.07.2010 | | | | Strona 3 |
| | | | | | z 11 str. |





-XDO1

-KB1

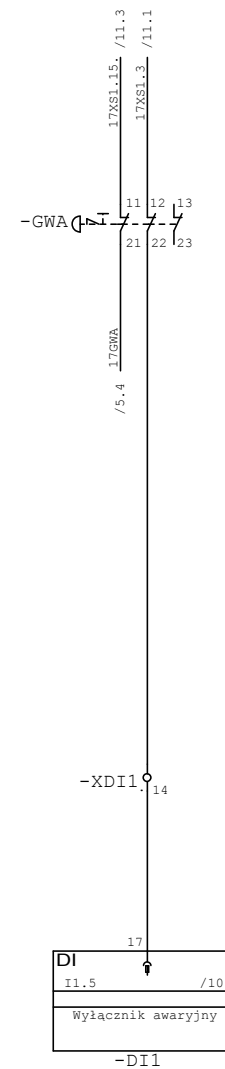
/3.3 14
/3.3 12
44 11
42 41

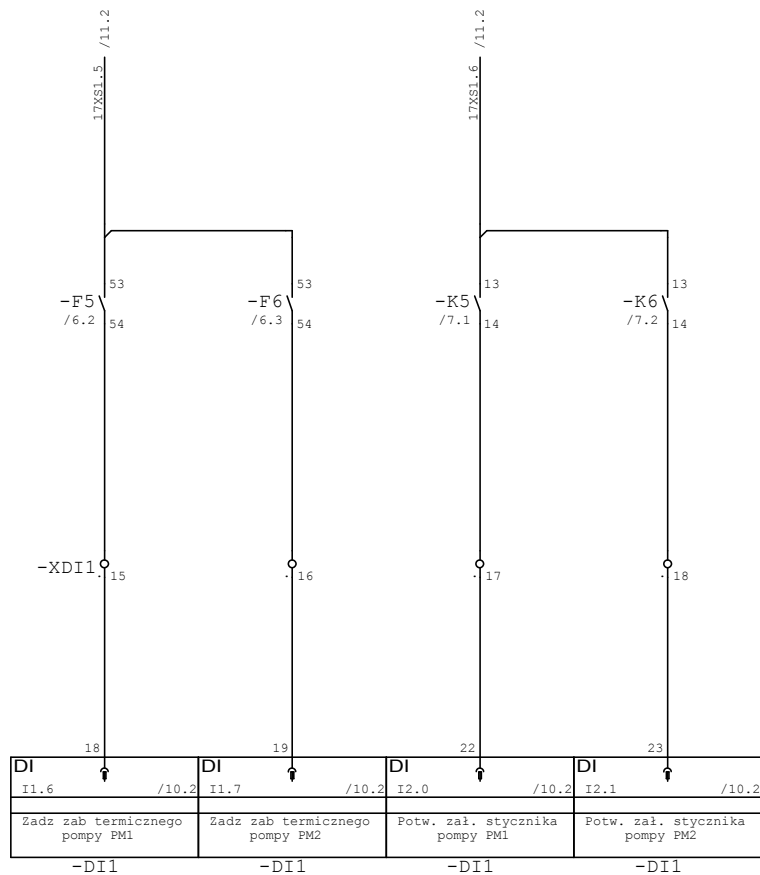
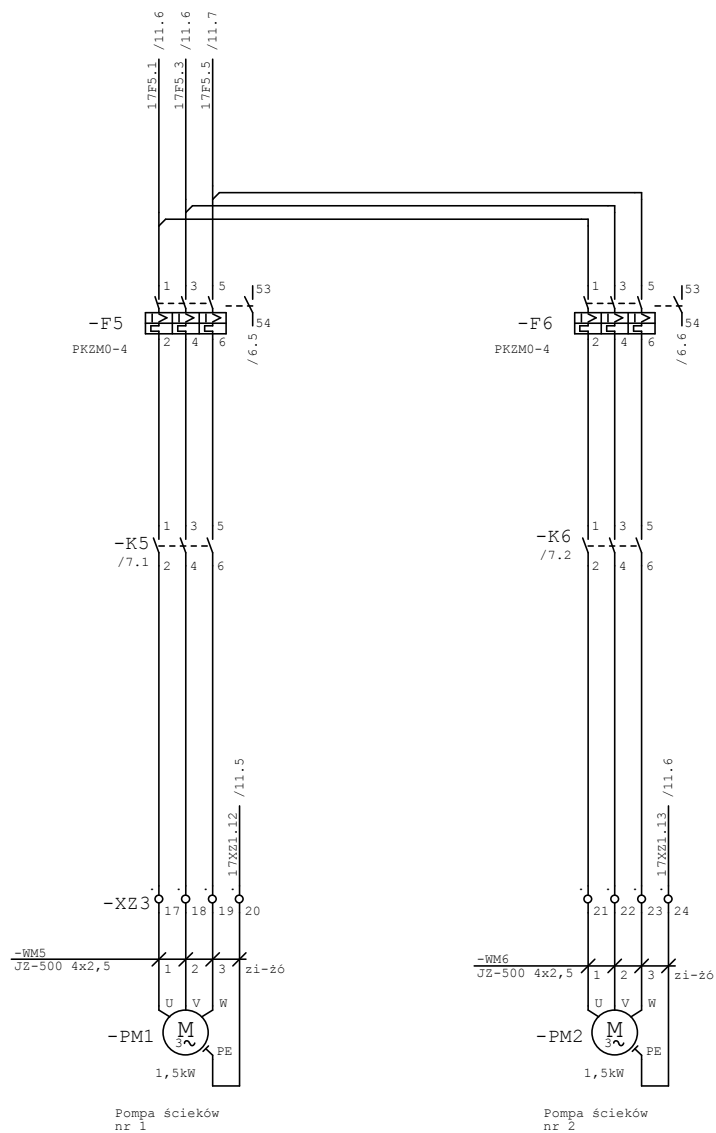
-KB2

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/3.6 12
44 11
42 41

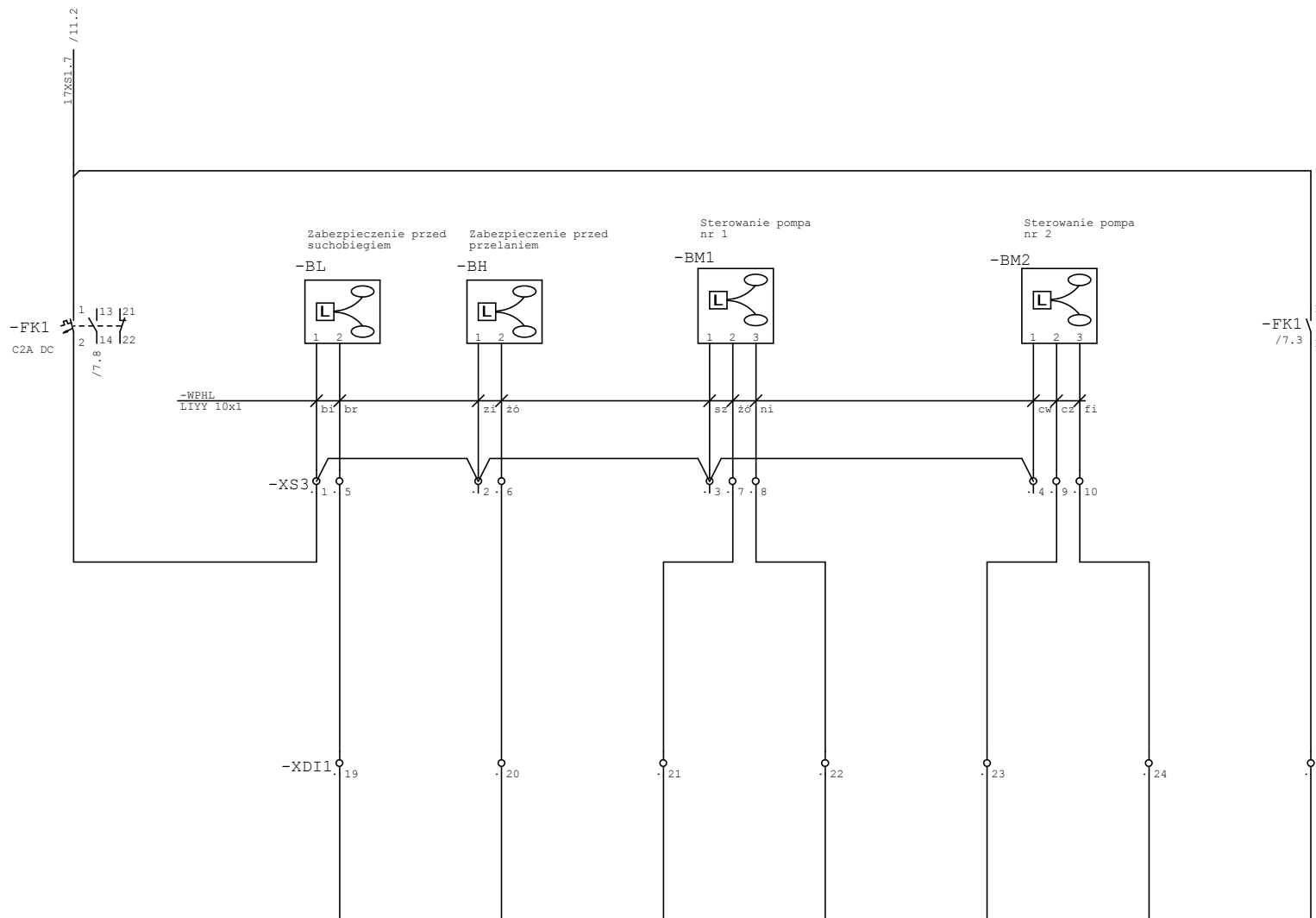
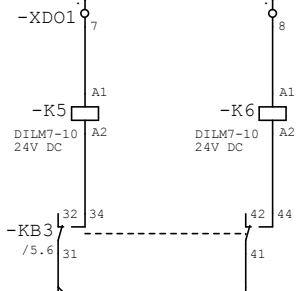
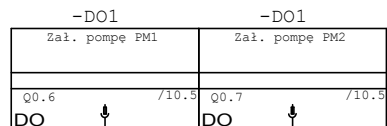
-KB3

/2.2 14
/2.2 12
/2.2 24
/2.2 22
/2.2 21
/7.1 34
/7.1 32
/7.1 31
/7.2 44
/7.2 42
/7.2 41

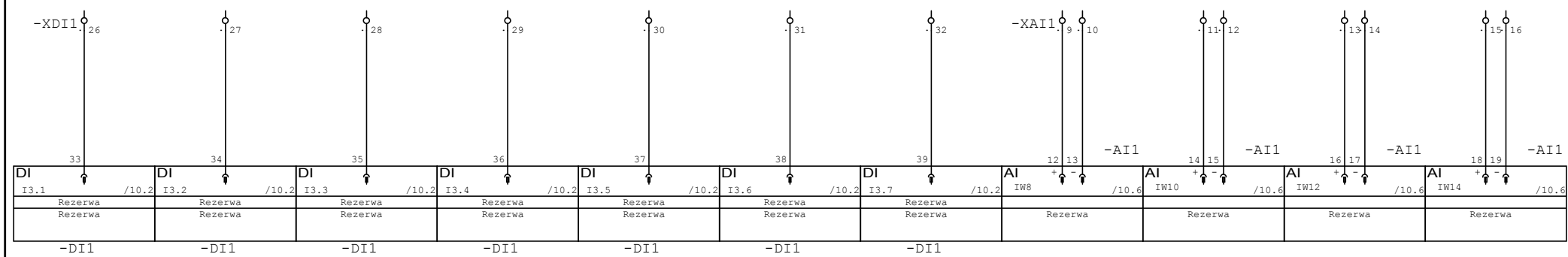


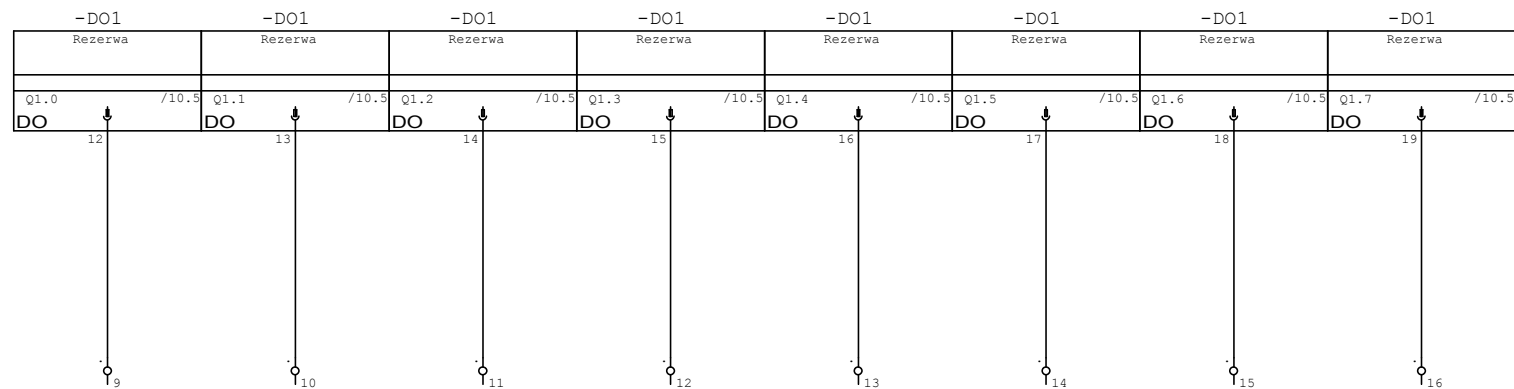


| | | | | | | | | | | | |
|----|--------------------------------|-------|----|--------------------------------|-------|----|--------------------------------|-------|----|--------------------------------|-------|
| DI | I1.6 | /10.2 | DI | I1.7 | /10.2 | DI | I2.0 | /10.2 | DI | I2.1 | /10.2 |
| | Zadz zab termicznego pompy PM1 | | | Zadz zab termicznego pompy PM2 | | | Potw. zał. stycznika pompy PM1 | | | Potw. zał. stycznika pompy PM2 | |
| | -DI1 | | | -DI1 | | | -DI1 | | | -DI1 | |



| | | | | | | |
|-----------------------|----------------------|------------------|-----------------|------------------|-----------------|-------------------------------|
| DI I2.2 /10.2 | DI I2.3 /10.2 | DI I2.4 /10.2 | DI I2.5 /10.2 | DI I2.6 /10.2 | DI I2.7 /10.2 | DI I3.0 /10.2 |
| Zab przed suchobiegim | Zab przed przelaniem | Wyłącz pompe PM1 | Włącz pompe PM1 | Wyłącz pompe PM2 | Włącz pompe PM2 | Zadz zab termicznego poziomów |
| -DI1 | -DI1 | -DI1 | -DI1 | -DI1 | -DI1 | -DI1 |





Wykonano dla
Zakład Wodociągów i Kanalizacji "MOD.-KAN
ul. Św. Faustyny Kowalskiej 9
97-400 Bełchatów

Sprawdził
Andrzej Dąbrowski
12.07.2010

Opracował
Krzysztof Szteblelak

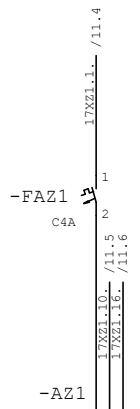


ABC AUTOMA
Sp. J. Andrzej Dąbrowski
Automatyka
Mikroprocesorowa
97-400 Bełchatów
ul. Przemysłowa 9

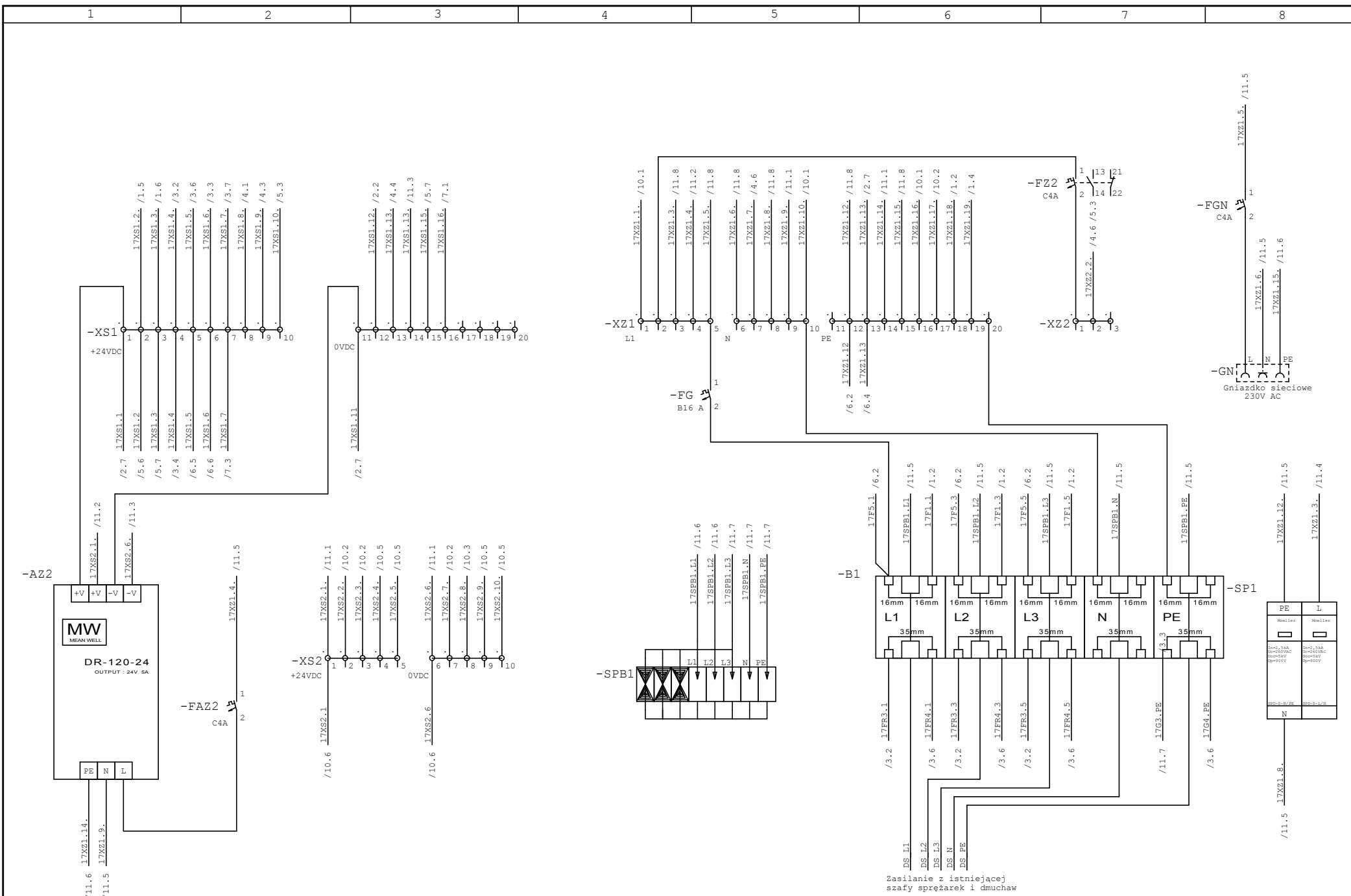
Tel. 044 733 13 28
Fax. 044 733 13 27

Rezerwy sterownika c. d.
Dmuchawy i sprężarki

=Dmuchawy sprężarki
+
Strona 9
z 11 str.



| -AZ1 | | -AK | | -DI1 | | | | | | | | -DO1 | | | | -AI1 | | | |
|-----------|---|----------------|---|---|------|------|-----------------------|----|------|------|-----------------------|---|------|------|--------------------|--|------|------|-----------------------|
| L+ | M | L+ | M | S7-300 Digital input SM321 32 Input DC 24V | | | | | | | | S7-300 Digital output SM322 16 Output DC 24V | | | | S7-300 Analog input SM 331 8 Input DC 24V | | | |
| L+ | M | L+ | M | L+ | L+ | L+ | L+ | L+ | L+ | L+ | L+ | L+ | L+ | L+ | L+ | L+ | L+ | L+ | |
| Zasilanie | | IM 153-1 | | 2 | I0.0 | /1.5 | Zadz zab term sprężar | 22 | I2.0 | /6.6 | Potw. zał. stycznika | 2 | Q0.0 | /2.2 | Załącz sprężarkę 1 | 2 | IW0 | /2.3 | Pomiar ciśnienia za |
| | | | | 3 | I0.1 | /1.6 | Załączona sprężarka 1 | 23 | I2.1 | /6.7 | Potw. zał. stycznika | 3 | Q0.1 | /2.2 | Załącz sprężarkę 2 | 3 | IW1 | /2.3 | Pomiar ciśnienia za |
| | | | | 4 | I0.2 | /1.6 | Zadz zab term sprężar | 24 | I2.2 | /7.4 | Zab przed suchobiegie | 4 | Q0.2 | /4.4 | Załącz dmuchawę 1 | 4 | IW2 | /2.4 | Pomiar ciśnienia za |
| | | | | 5 | I0.3 | /1.7 | Załączona sprężarka 2 | 25 | I2.3 | /7.4 | Zab przed przelaniem | 5 | Q0.3 | /4.5 | Załącz dmuchawę 2 | 5 | IW3 | /2.4 | Pomiar ciśnienia za |
| PS 307 | | | | 6 | I0.4 | /4.1 | Zadz zab termicznego | 26 | I2.4 | /7.5 | Wyłącz pompę FM1 | 6 | Q0.4 | /5.4 | Załącz softstart | 6 | IW4 | /5.1 | Ciśnienie za dmuchawą |
| | | | | 7 | I0.5 | /4.3 | Załączony stycznik | 27 | I2.5 | /7.6 | Wyłącz pompę FM1 | 7 | Q0.5 | /5.5 | Załącz softstart | 7 | IW5 | /5.1 | Ciśnienie za dmuchawą |
| 5A | | | | 8 | I0.6 | /3.3 | Osiągnięto rampe | 28 | I2.6 | /7.7 | Wyłącz pompę FM2 | 8 | Q0.6 | /7.1 | Załącz pompę FM1 | 8 | IW6 | /5.2 | Ciśnienie za dmuchawą |
| | | | | 9 | I0.7 | /3.3 | Gotowość do pracy | 29 | I2.7 | /7.7 | Wyłącz pompę FM2 | 9 | Q0.7 | /7.2 | Załącz pompę FM2 | 9 | IW7 | /5.2 | Ciśnienie za dmuchawą |
| | | | | 12 | I1.0 | /4.2 | Zadz zab termicznego | 32 | I3.0 | /7.8 | Zadz zab termicznego | 12 | Q1.0 | /9.3 | Rezerwa | 12 | IW8 | /8.6 | Rezerwa |
| | | | | 13 | I1.1 | /4.4 | Załączony stycznik | 33 | I3.1 | /8.1 | Rezerwa | 13 | Q1.1 | /9.3 | Rezerwa | 13 | IW9 | /8.6 | Rezerwa |
| | | | | 14 | I1.2 | /3.6 | Osiągnięto rampe | 34 | I3.2 | /8.2 | Rezerwa | 14 | Q1.2 | /9.4 | Rezerwa | 14 | IW10 | /8.7 | Rezerwa |
| | | | | 15 | I1.3 | /3.7 | Gotowość do pracy | 35 | I3.3 | /8.2 | Rezerwa | 15 | Q1.3 | /9.5 | Rezerwa | 15 | IW11 | /8.7 | Rezerwa |
| | | | | 16 | I1.4 | /5.3 | Brak zasilania cewek | 36 | I3.4 | /8.3 | Rezerwa | 16 | Q1.4 | /9.6 | Rezerwa | 16 | IW12 | /8.7 | Rezerwa |
| | | | | 17 | I1.5 | /5.7 | Wyłącznik awaryjny | 37 | I3.5 | /8.4 | Rezerwa | 17 | Q1.5 | /9.6 | Rezerwa | 17 | IW13 | /8.7 | Rezerwa |
| S7-300 | | SIMATIC ET200M | | 18 | I1.6 | /6.5 | Zadz zab termicznego | 38 | I3.6 | /8.4 | Rezerwa | 18 | Q1.6 | /9.7 | Rezerwa | 18 | IW14 | /8.8 | Rezerwa |
| | | | | 19 | I1.7 | /6.6 | Zadz zab termicznego | 39 | I3.7 | /8.5 | Rezerwa | 19 | Q1.7 | /9.8 | Rezerwa | 19 | IW15 | /8.8 | Rezerwa |



Zasilanie z istniejącej szafy sprężarek i dmuchaw

| | | | | | |
|--|--|-----------------------------------|---|---|--|
| Wykonano dla Zakład Wodociągów i Kanalizacji "MOD.-KAN ul. Św. Faustyny Kowalskiej 9 97-400 Bełchatów | Sprawdził Andrzej Dąbrowski 12.07.2010 | Opracował Krzysztof Sztęblelak |  ABCAUTOMA Sp. J. Andrzej Dąbrowski Automatyka Mikroprocesorowa 97-400 Bełchatów ul. Przemysłowa 9 | Listwy zasilające 400 i 230V AC oraz 24V DC Dmuchawy i sprężarki | =Dmuchawy sprężarki + Strona 11 z 11 str. |
|--|--|-----------------------------------|---|---|--|

| Oznaczenie kabla zewnętrznego | | | | | | | | | | Lista zaciskowa:=Dmuchawy_sprężarki-XDI1 | | | | | | | | | | Oznaczenie kabla wewnętrznego | | | | | | | | | | Str. 2 |
|-------------------------------|--|--|--|--|--|--|--|--|--|--|----------------|-----------|---------------|--|--------------------------|------------|----------------|----|--|-------------------------------|--|--|--|--|--|--|--|--|-------------|--------|
| | | | | | | | | | | Tekst funkcyjny | Cel Zewnętrzny | | Numer zacisku | | Mostki state | | Cel Wewnętrzny | | | | | | | | | | | | Arkusz/Pole | |
| | | | | | | | | | | | Oznaczenie | Przyłącze | | | | Oznaczenie | Przyłącze | | | | | | | | | | | | | |
| | | | | | | | | | | | -F1 | 54 | 1 | | | | -DI1 | 2 | | | | | | | | | | | /1.5 | |
| | | | | | | | | | | | -K1 | 14 | 2 | | | | -DI1 | 3 | | | | | | | | | | | /1.6 | |
| | | | | | | | | | | | -F2 | 54 | 3 | | | | -DI1 | 4 | | | | | | | | | | | /1.6 | |
| | | | | | | | | | | | -K2 | 14 | 4 | | | | -DI1 | 5 | | | | | | | | | | | /1.7 | |
| | | | | | | | | | | | -F3 | 54 | 5 | | | | -DI1 | 6 | | | | | | | | | | | /4.1 | |
| | | | | | | | | | | | -K3 | 14 | 6 | | | | -DI1 | 7 | | | | | | | | | | | /4.3 | |
| | | | | | | | | | | | -G3 | 14 | 7 | | Układ łagodnego rozruchu | | -DI1 | 8 | | | | | | | | | | | /3.3 | |
| | | | | | | | | | | | -G3 | 24 | 8 | | Układ łagodnego rozruchu | | -DI1 | 9 | | | | | | | | | | | /3.3 | |
| | | | | | | | | | | | -F4 | 54 | 9 | | | | -DI1 | 12 | | | | | | | | | | | /4.2 | |
| | | | | | | | | | | | -K4 | 14 | 10 | | | | -DI1 | 13 | | | | | | | | | | | /4.4 | |
| | | | | | | | | | | | -G4 | 14 | 11 | | Układ łagodnego rozruchu | | -DI1 | 14 | | | | | | | | | | | /3.6 | |
| | | | | | | | | | | | -G4 | 24 | 12 | | Układ łagodnego rozruchu | | -DI1 | 15 | | | | | | | | | | | /3.7 | |
| | | | | | | | | | | | -FZ2 | 14 | 13 | | | | -DI1 | 16 | | | | | | | | | | | /5.3 | |
| | | | | | | | | | | | -GWA | 22 | 14 | | | | -DI1 | 17 | | | | | | | | | | | /5.7 | |
| | | | | | | | | | | | -F5 | 54 | 15 | | | | -DI1 | 18 | | | | | | | | | | | /6.5 | |
| | | | | | | | | | | | -F6 | 54 | 16 | | | | -DI1 | 19 | | | | | | | | | | | /6.6 | |
| | | | | | | | | | | | -K5 | 14 | 17 | | | | -DI1 | 22 | | | | | | | | | | | /6.6 | |
| | | | | | | | | | | | -K6 | 14 | 18 | | | | -DI1 | 23 | | | | | | | | | | | /6.7 | |
| | | | | | | | | | | | -XS2 | 5 | 19 | | | | -DI1 | 24 | | | | | | | | | | | /7.4 | |
| | | | | | | | | | | | -XS2 | 6 | 20 | | | | -DI1 | 25 | | | | | | | | | | | /7.4 | |
| | | | | | | | | | | | -XS2 | 7 | 21 | | | | -DI1 | 26 | | | | | | | | | | | /7.5 | |
| | | | | | | | | | | | -XS2 | 8 | 22 | | | | -DI1 | 27 | | | | | | | | | | | /7.6 | |
| | | | | | | | | | | | -XS2 | 9 | 23 | | | | -DI1 | 28 | | | | | | | | | | | /7.7 | |
| | | | | | | | | | | | -XS2 | 10 | 24 | | | | -DI1 | 29 | | | | | | | | | | | /7.7 | |
| | | | | | | | | | | | -FK1 | 14 | 25 | | | | -DI1 | 32 | | | | | | | | | | | /7.8 | |
| | | | | | | | | | | | | | 26 | | | | -DI1 | 33 | | | | | | | | | | | /8.1 | |
| | | | | | | | | | | | | | 27 | | | | -DI1 | 34 | | | | | | | | | | | /8.2 | |
| | | | | | | | | | | | | | 28 | | | | -DI1 | 35 | | | | | | | | | | | /8.2 | |
| | | | | | | | | | | | | | 29 | | | | -DI1 | 36 | | | | | | | | | | | /8.3 | |
| | | | | | | | | | | | | | 30 | | | | -DI1 | 37 | | | | | | | | | | | /8.4 | |
| | | | | | | | | | | | | | 31 | | | | -DI1 | 38 | | | | | | | | | | | /8.4 | |
| | | | | | | | | | | | | | 32 | | | | -DI1 | 39 | | | | | | | | | | | /8.5 | |

| Oznaczenie kabla zewnętrznego | | | | | | | | | | | | | | | | Lista zaciskowa:=Dmuchawy_sprężarki-XDO1 | | | | | | | | | | | | | | Oznaczenie kabla wewnętrznego | | | | | Str. 3 |
|-------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------|---|---------------|--------------|----------------|-----------|--|--|--|--|--|------|-------------|-------------------------------|--|--|--|--|--------|
| Tekst funkcyjny | | | | | | | | | | | | | | | | Cel Zewnętrzny | | | Numer zacisku | Mostki stałe | Cel Wewnętrzny | | | | | | | | Arkusz/Pole | | | | | | |
| | | | | | | | | | | | | | | | | Oznaczenie | Przyłącze | | | | Oznaczenie | Przyłącze | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | -K1 | A1 | 1 | | -D01 | | 2 | | | | | | /2.2 | | | | | | | |
| | | | | | | | | | | | | | | | | -K2 | A1 | 2 | | -D01 | | 3 | | | | | | /2.2 | | | | | | | |
| | | | | | | | | | | | | | | | | -K31 | A1 | 3 | | -D01 | | 4 | | | | | | /4.4 | | | | | | | |
| | | | | | | | | | | | | | | | | -K41 | A1 | 4 | | -D01 | | 5 | | | | | | /4.5 | | | | | | | |
| | | | | | | | | | | | | | | | | -KB1 | A1 | 5 | | -D01 | | 6 | | | | | | /5.4 | | | | | | | |
| | | | | | | | | | | | | | | | | -KB2 | A1 | 6 | | -D01 | | 7 | | | | | | /5.5 | | | | | | | |
| | | | | | | | | | | | | | | | | -K5 | A1 | 7 | | -D01 | | 8 | | | | | | /7.1 | | | | | | | |
| | | | | | | | | | | | | | | | | -K6 | A1 | 8 | | -D01 | | 9 | | | | | | /7.2 | | | | | | | |
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| Oznaczenie kabla zewnętrznego | | | | | | | | | | Lista zaciskowa:=Dmuchawy_sprężarki-XS1 | | | | | | | | | | Oznaczenie kabla wewnętrznego | | | | | | | | | | Str. 4 |
|-------------------------------|--|--|--|--|--|--|--|--|--|---|----------------|-----------|---------------|--------------|----------------|-----------|--|--|--|-------------------------------|--|--|--|--|--|--|-------------|--|--|--------|
| | | | | | | | | | | Tekst funkcyjny | Cel Zewnętrzny | | Numer zacisku | Mostki state | Cel Wewnętrzny | | | | | | | | | | | | Arkusz/Pole | | | |
| | | | | | | | | | | | Oznaczenie | Przyłącze | | | Oznaczenie | Przyłącze | | | | | | | | | | | | | | |
| | | | | | | | | | | | -AP1 | L+ | 1 | • | -A22 | +V | | | | | | | | | | | /11.1 | | | |
| | | | | | | | | | | | -KB3 | A1 | 2 | • | -F1 | S3 | | | | | | | | | | | /11.1 | | | |
| | | | | | | | | | | | -GWA | 12 | 3 | • | -K1 | 13 | | | | | | | | | | | /11.1 | | | |
| | | | | | | | | | | | -KB1 | 11 | 4 | • | -G3 | +24V | | | | | | | | | | | /11.2 | | | |
| | | | | | | | | | | | -F5 | S3 | 5 | • | -G4 | +24V | | | | | | | | | | | /11.2 | | | |
| | | | | | | | | | | | -K5 | 13 | 6 | • | -G3 | 13 | | | | | | | | | | | /11.2 | | | |
| | | | | | | | | | | | -FK1 | 1 | 7 | • | -G4 | 13 | | | | | | | | | | | /11.2 | | | |
| | | | | | | | | | | | | | 8 | • | -F3 | S3 | | | | | | | | | | | /11.2 | | | |
| | | | | | | | | | | | | | 9 | • | -K3 | 13 | | | | | | | | | | | /11.2 | | | |
| | | | | | | | | | | | | | 10 | • | -F22 | 13 | | | | | | | | | | | /11.2 | | | |
| | | | | | | | | | | | -AP1 | M | 11 | • | -A22 | -V | | | | | | | | | | | /11.3 | | | |
| | | | | | | | | | | | | | 12 | • | -KB3 | 11 | | | | | | | | | | | /11.3 | | | |
| | | | | | | | | | | | | | 13 | • | -K31 | A2 | | | | | | | | | | | /11.3 | | | |
| | | | | | | | | | | | | | 14 | • | | | | | | | | | | | | | /11.3 | | | |
| | | | | | | | | | | | | | 15 | • | -GWA | 11 | | | | | | | | | | | /11.3 | | | |
| | | | | | | | | | | | | | 16 | • | -KB3 | 31 | | | | | | | | | | | /11.3 | | | |
| | | | | | | | | | | | | | 17 | • | | | | | | | | | | | | | /11.3 | | | |
| | | | | | | | | | | | | | 18 | • | | | | | | | | | | | | | /11.3 | | | |
| | | | | | | | | | | | | | 19 | • | | | | | | | | | | | | | /11.3 | | | |
| | | | | | | | | | | | | | 20 | • | | | | | | | | | | | | | /11.4 | | | |

| Oznaczenie kabla zewnętrznego | | | | | | | | | | Lista zaciskowa:=Dmuchawy_sprężarki-XS2 | | | | | | | | | | Oznaczenie kabla wewnętrznego | | | | | | | | | | Str. 5 |
|-------------------------------|--|--|--|--|--|--|--|--|--|---|-----------------------------------|------------------------------|-----------|---------------|--------------|------------------------------|-----------|--|--|-------------------------------|--|--|--|--|--|------|--|-------------|--|--------|
| | | | | | | | | | | =Dmuchawy_sprężarki-WPH | Tekst funkcyjny | Cel Zewnętrzny Oznaczenie | Przyłącze | Numer zacisku | Mostki state | Cel Wewnętrzny Oznaczenie | Przyłącze | | | | | | | | | | | Arkusz/Pole | | |
| | | | | | | | | | | bi | Zabezpieczenie przed suchobiegiem | -BL | 1 | 1 | • | -FK1 | 2 | | | | | | | | | | | /7.4 | | |
| | | | | | | | | | | | | -AI1 | 1 | 1 | • | -A22 | +V | | | | | | | | | | | /11.2 | | |
| | | | | | | | | | | zi | Zabezpieczenie przed przelaniem | -BH | 1 | 2 | • | | | | | | | | | | | /7.4 | | | | |
| | | | | | | | | | | | | | | 2 | • | -DI1 | 1 | | | | | | | | | | | /11.3 | | |
| | | | | | | | | | | sz | Sterowanie pompa nr 1 | -BM1 | 1 | 3 | • | | | | | | | | | | | /7.5 | | | | |
| | | | | | | | | | | | | | | 3 | • | -DI1 | 21 | | | | | | | | | | | /11.3 | | |
| | | | | | | | | | | cw | Sterowanie pompa nr 2 | -BM2 | 1 | 4 | • | | | | | | | | | | | /7.7 | | | | |
| | | | | | | | | | | | | | | 4 | • | -D01 | 1 | | | | | | | | | | | /11.3 | | |
| | | | | | | | | | | br | Zabezpieczenie przed suchobiegiem | -BL | 2 | 5 | • | -XDI1 | 19 | | | | | | | | | | | /7.4 | | |
| | | | | | | | | | | | | | | 5 | • | -D01 | 11 | | | | | | | | | | | /11.3 | | |
| | | | | | | | | | | żó | Zabezpieczenie przed przelaniem | -BH | 2 | 6 | • | -XDI1 | 20 | | | | | | | | | | | /7.4 | | |
| | | | | | | | | | | | | -AI1 | 20 | 6 | • | -A22 | -V | | | | | | | | | | | /11.3 | | |
| | | | | | | | | | | żó | Sterowanie pompa nr 1 | -BM1 | 2 | 7 | • | -XDI1 | 21 | | | | | | | | | | | /7.6 | | |
| | | | | | | | | | | | | | | 7 | • | -DI1 | 20 | | | | | | | | | | | /11.3 | | |
| | | | | | | | | | | ni | Sterowanie pompa nr 1 | -BM1 | 3 | 8 | • | -XDI1 | 22 | | | | | | | | | | | /7.6 | | |
| | | | | | | | | | | | | | | 8 | • | -DI1 | 40 | | | | | | | | | | | /11.3 | | |
| | | | | | | | | | | cz | Sterowanie pompa nr 2 | -BM2 | 2 | 9 | • | -XDI1 | 23 | | | | | | | | | | | /7.7 | | |
| | | | | | | | | | | | | | | 9 | • | -D01 | 10 | | | | | | | | | | | /11.3 | | |
| | | | | | | | | | | fi | Sterowanie pompa nr 2 | -BM2 | 3 | 10 | • | -XDI1 | 24 | | | | | | | | | | | /7.7 | | |
| | | | | | | | | | | | | | | 10 | • | -D01 | 20 | | | | | | | | | | | /11.3 | | |

| Oznaczenie kabla zewnętrznego | | | | | | | | | | Lista zaciskowa:=Dmuchawy_sprężarki-XZ1 | | | | | | | | | | Oznaczenie kabla wewnętrznego | | | | | | | | | | Str. 6 |
|-------------------------------|--|--|--|--|--|--|--|--|--|---|----------------|-----------|---------------|------|--------------|------------|----------------|----|--|-------------------------------|--|--|--|--|--|--|--|-------|-------------|--------|
| | | | | | | | | | | Tekst funkcyjny | Cel Zewnętrzny | | Numer zacisku | | Mostki state | | Cel Wewnętrzny | | | | | | | | | | | | Arkusz/Pole | |
| | | | | | | | | | | | Oznaczenie | Przyłącze | | | | Oznaczenie | Przyłącze | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 1 | | • | -FAZ1 | 1 | | | | | | | | | | | /11.4 | | |
| | | | | | | | | | | | | | 2 | | • | -FZ2 | 1 | | | | | | | | | | | /11.4 | | |
| | | | | | | | | | | | | | 3 | | • | | | | | | | | | | | | | /11.4 | | |
| | | | | | | | | | | | | | 4 | | • | -FAZ2 | 1 | | | | | | | | | | | /11.5 | | |
| | | | | | | | | | | | | | 5 | -FG | 1 | • | | | | | | | | | | | | | /11.5 | |
| | | | | | | | | | | | | | 6 | | | • | | | | | | | | | | | | | /11.5 | |
| | | | | | | | | | | | | | 7 | | | • | -K3 | A2 | | | | | | | | | | | /11.5 | |
| | | | | | | | | | | | | | 8 | | | • | -SF1 | N | | | | | | | | | | | /11.5 | |
| | | | | | | | | | | | | | 9 | | | • | -A22 | N | | | | | | | | | | | /11.5 | |
| | | | | | | | | | | | | | 10 | -B1 | | • | -A21 | N | | | | | | | | | | | /11.5 | |
| | | | | | | | | | | | | | 11 | | | • | | | | | | | | | | | | | /11.5 | |
| | | | | | | | | | | | | | 12 | -X23 | 20 | • | | | | | | | | | | | | | /11.5 | |
| | | | | | | | | | | | | | 13 | -X23 | 24 | • | -AP1 | PE | | | | | | | | | | | /11.6 | |
| | | | | | | | | | | | | | 14 | | | • | -A22 | PE | | | | | | | | | | | /11.6 | |
| | | | | | | | | | | | | | 15 | | | • | | | | | | | | | | | | | /11.6 | |
| | | | | | | | | | | | | | 16 | | | • | -A21 | PE | | | | | | | | | | | /11.6 | |
| | | | | | | | | | | | | | 17 | | | • | -AR | PE | | | | | | | | | | | /11.6 | |
| | | | | | | | | | | | | | 18 | | | • | -X23 | 4 | | | | | | | | | | | /11.6 | |
| | | | | | | | | | | | | | 19 | | | • | -X23 | 8 | | | | | | | | | | | /11.6 | |
| | | | | | | | | | | | | | 20 | -B1 | | • | | | | | | | | | | | | | /11.6 | |

| Oznaczenie kabla zewnętrznego | | | | | | | | | | | | | | Lista zaciskowa:=Dmuchawy_sprężarki-XZ2 | | | | | | | | | | | | | | Oznaczenie kabla wewnętrznego | | | | | | | | | | | | | | Str. 7 | | | | | | | | | | | | | | | | | | | |
|-------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|-------------------------------|-----------|---------------|--------------|--|--|--|--|--|--|--|--|--|--|--------|--|------------|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------|-------------|
| | | | | | | | | | | | | | | Tekst funkcyjny | | | | | | | | | | | | | | Cel Zewnętrzny | | Numer zacisku | Mostki state | | | | | | | | | | | | | | Cel Wewnętrzny | | | | | | | | | | | | | | | | Arkusz/Pole |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Oznaczenie | Przyłącze | | | | | | | | | | | | | | | Oznaczenie | Przyłącze | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | /11.7 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | /11.7 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | /11.7 | |

| Oznaczenie kabla zewnętrznego | | | | | | Lista zaciskowa:=Dmuchawy_sprężarki-XZ3 | | | | | | Oznaczenie kabla wewnętrznego | | | | | | Str. 8 | | | | | | |
|-------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|---|--|--|--|--|--|-------------------------------|------|----------------------------|----|--------------|--|------------------------------|------|-----------|--|--------------|--|------|
| | | | | | | Tekst funkcyjny | | | | | | Cel Zewnętrzny Oznaczenie | | Numer zacisku Przyłącze | | Mosiki stałe | | Cel Wewnętrzny Oznaczenie | | Przyłącze | | Arkusze/Pole | | |
| =Dmochawy_sprężarki-WM1 | =Dmochawy_sprężarki-WM2 | =Dmochawy_sprężarki-WM3 | =Dmochawy_sprężarki-WM4 | =Dmochawy_sprężarki-WM5 | =Dmochawy_sprężarki-WM6 | | | | | | | | | | | | | | | | | | | |
| | | | | | | 1 | | | | | | | -M1 | U | 1 | | | | -K1 | 2 | | | | /1.2 |
| | | | | | | 2 | | | | | | | -M1 | V | 2 | | | | -K1 | 4 | | | | /1.2 |
| | | | | | | 3 | | | | | | | -M1 | W | 3 | | | | -K1 | 6 | | | | /1.2 |
| | | | | | | zi-20 | | | | | | | -M1 | PE | 4 | | | | -XZ1 | 18 | | | | /1.2 |
| | | | | | | 1 | | | | | | | -M2 | U | 5 | | | | -K2 | 2 | | | | /1.3 |
| | | | | | | 2 | | | | | | | -M2 | V | 6 | | | | -K2 | 4 | | | | /1.4 |
| | | | | | | 3 | | | | | | | -M2 | W | 7 | | | | -K2 | 6 | | | | /1.4 |
| | | | | | | zi-20 | | | | | | | -M2 | PE | 8 | | | | -XZ1 | 19 | | | | /1.4 |
| | | | | | | 1 | | | | | | | -M3 | U | 9 | | | | -G3 | 2T1 | | | | /3.1 |
| | | | | | | 2 | | | | | | | -M3 | V | 10 | | | | -G3 | 4T2 | | | | /3.1 |
| | | | | | | 3 | | | | | | | -M3 | W | 11 | | | | -G3 | 6T3 | | | | /3.2 |
| | | | | | | zi-20 | | | | | | | -M3 | PE | 12 | | | | -G3 | PE | | | | /3.2 |
| | | | | | | 1 | | | | | | | -M4 | U | 13 | | | | -G4 | 2T1 | | | | /3.5 |
| | | | | | | 2 | | | | | | | -M4 | V | 14 | | | | -G4 | 4T2 | | | | /3.5 |
| | | | | | | 3 | | | | | | | -M4 | W | 15 | | | | -G4 | 6T3 | | | | /3.5 |
| | | | | | | zi-20 | | | | | | | -M4 | PE | 16 | | | | -G4 | PE | | | | /3.6 |
| | | | | | | 1 | | | | | | | -PM1 | U | 17 | | | | -K5 | 2 | | | | /6.2 |
| | | | | | | 2 | | | | | | | -PM1 | V | 18 | | | | -K5 | 4 | | | | /6.2 |
| | | | | | | 3 | | | | | | | -PM1 | W | 19 | | | | -K5 | 6 | | | | /6.2 |
| | | | | | | zi-20 | | | | | | | -PM1 | PE | 20 | | | | -XZ1 | 12 | | | | /6.2 |
| | | | | | | 1 | | | | | | | -PM2 | U | 21 | | | | -K6 | 2 | | | | /6.3 |
| | | | | | | 2 | | | | | | | -PM2 | V | 22 | | | | -K6 | 4 | | | | /6.4 |
| | | | | | | 3 | | | | | | | -PM2 | W | 23 | | | | -K6 | 6 | | | | /6.4 |
| | | | | | | zi-20 | | | | | | | -PM2 | PE | 24 | | | | -XZ1 | 13 | | | | /6.4 |

Lista materiałowa: WOD-KAN_Bełchatów=Dmuchawy_sprężarki

Strona:1

| Nr | Ilość | Nazwa | Numer artykułu | Oznaczenie | Wytwórca | Nr części | Uwagi |
|----|-------|--|-----------------------------|------------|---------------------|------------------------|-------|
| 1 | 1 | Odgajęźnik instalacyjny 35/16mm TS35 ERGOM | LZG-35/16 | -B1 | ERGOM | 410-400600 | |
| 2 | 2 | Pływakowy czujnik poziomu KARI 2A | KARI 2A | -BM2 | Introl | KARI 2A | |
| 3 | 1 | Pływakowy czujnik poziomu KARI 1L | KARI 1L | -BL | Introl | KARI VEGAFLO 1L | |
| 4 | 1 | Pływakowy czujnik poziomu KARI 1H | KARI 1H | -BH | Introl | KARI VEGAFLO 1H | |
| 5 | 1 | Zasilacz impulsowy DR-120-24 | DR-120-24 | -A22 | Mean Well | DR-120-24 | |
| 6 | 4 | Stycznik 3polowy DILM7-10 | DILM7-10 (24VDC) | -K5 | Moeller | 276565 | |
| 7 | 2 | Układ łagodnego rozruchu DS6-22kW | DS6-340-22K-MX | -G4 | Moeller | 103086 | |
| 8 | 1 | Gniazdko wtyczkowe Z-SD230 | Gniazdko Z-SD230 | -GN | Moeller | 266875 | |
| 9 | 1 | Ogranicznik przepięć klasy D | SPD-S-1+1 | -SP1 | Moeller | 248202 | |
| 10 | 1 | Ogranicznik przepięć B+C zestaw | SP-B+C/3+1 | -SPB1 | Moeller | 267510 | |
| 11 | 4 | FA2-C4/1 | FA2-C4/1 | -FA22 | Moeller | 278553 | |
| 12 | 2 | PKZM0-10 Wylacznik silnikowy 4kW | PKZM0-10 | -F1 | Moeller | 072739 | |
| 13 | 6 | Noże do rozlacznika bezpiecznikowego Z-NH-00/TR | Z-NH-00/TR | | Moeller | 263114 | |
| 14 | 2 | Rozlacznik bezpiecznikowy LTS 160A | LTS-160/00/3-F | -FR4 | Moeller | 284692 | |
| 15 | 2 | PKZM4-50 Wylacznik silnikowy 25kW | PKZM4-50 | -F4 | Moeller | 222355 | |
| 16 | 2 | Stycznik 3polowy DILM50 | DILM50 (230V50Hz, 240V60Hz) | -K4 | Moeller | 277830 | |
| 17 | 2 | Zaciski srubowe DILM150 | DILM150-XHI20 | | Moeller | 277945 | |
| 18 | 1 | Przycisk awaryjny | M22-PV | -GWA | Moeller | 216876 | |
| 19 | 1 | Łącznik do mocowania | M22-A | | Moeller | 216374 | |
| 20 | 3 | Element stykowy 1R | M22-K01 | | Moeller | 216378 | |
| 21 | 2 | PKZM0-4 Wylacznik silnikowy 1,5kW | PKZM0-4 | -F5 | Moeller | 072737 | |
| 22 | 4 | NHI-E-10-PK20 styk pomocniczy 1Z | NHI-E-10-PK20 | | Moeller | 082884 | |
| 23 | 1 | Wylacznik nadprądowy C2 DC | FA2-C2/1-DC | -FK1 | Moeller | 279122 | |
| 24 | 3 | Z-AHK styk pomocniczy 1Z 1R | Z-AHK | | Moeller | 248433 | |
| 25 | 1 | CLS6-B10 Wylacznik nadprądowy 1-pol. | CLS6-B10 | -FG | Moeller | 269608 | |
| 26 | 4 | Przełącznik R2, 2P, 12A, 24V DC | R2-1012-23-1024-WT | -KB1 | Relpol | R2-1012-23-1024-WT | |
| 27 | 1 | Przełącznik R4, 4P, 6A, 24V DC | R4-2014-23-1024-WT | -KB3 | Relpol | R4-2014-23-1024-WT | |
| 28 | 1 | Gniazdo GZM4 do R4 | GZM4 | | Relpol | GZM4 | |
| 29 | 1 | Moduł sygnalizacyjny M41G 6/24V DC | M41G | | Relpol | M41G | |
| 30 | 1 | Płytki do opisu GZT4-0035 | GZT4-0035 | | Relpol | GZT4-0035 | |
| 31 | 1 | Obejma wyrzutnikowa do gniazd GZT i GZM | GZT4-0040 | | Relpol | GZT4-0040 | |
| 32 | 1 | Sprężarka śrubowa TYP RSD | RSD 3 | -M2 | Renner Kompressoren | RSD 3 | |
| 33 | 1 | Analog input SM 331-7KF02 8x12 bit | 6ES7331-7KF02-0AB0 | -A11 | Siemens | 6ES7331-7KF02-0AB0 | |
| 34 | 4 | Przetwornik pomiarowy ciśnienia Sitrans P Z 0-10 | 7MF8023-1DA04-1AA6-Z Y01 | -P4 | Siemens | 7MF8023-1DA04-1AA6-Z Y | |
| 35 | 1 | Digital output SM 322-1BH01 16x24V DC | 6ES7322-1BH01-0AA0 | -D01 | Siemens | 6ES7322-1BH01-0AA0 | |
| 36 | 1 | Zasilacz PS 307-1E 5A | 6ES7307-1EA00-0AA0 | -A21 | Siemens | 6ES7307-1EA00-0AA0 | |
| 37 | 1 | Panel operatorski SIMATIC TP 177B 5,7" | 6AV6642-0BA01-1AX1 | -AP1 | Siemens | 6AV6642-0BA01-1AX1 | |
| 38 | 2 | Profibus connector | 6ES7972-0BA50-0XA0 | | Siemens | 6ES7972-0BA50-0XA0 | |
| 39 | 1 | ET200M przyłącze IM 153-1 | 6ES7 153-1AA03-0XB0 | -AK | Siemens | 6ES7 153-1AA03-0XB0 | |
| 40 | 1 | Digital input 32DI 32x24V DC | 6ES7321-1BL00-0AA0 | -DI1 | Siemens | 6ES7321-1BL00-0AA0 | |
| 41 | 1 | Złącze konektorowe 40 pinowy śrubowy | 6ES7392-1AM00-0AA0 | | Siemens | 6ES7392-1AM00-0AA0 | |
| 42 | 2 | Złączka PE TOPJOBS 10(16) mm 2-przewodowa | 2010-1207 | -X23 | Wago | 2010-1207 | |
| 43 | 6 | Złączka przelotowa 2-przewodowa TOPJOBS 10mm sza | 2010-1201 | -X23 | Wago | 2010-1201 | |
| 44 | 54 | Złączka TOPJOBS 1,5(2,5) szara 2-przewodowa | 2001-1201 | -XD11 | Wago | 2001-1201 | |
| 45 | 14 | Złączka PE TOPJOBS 2,5(4) mm 2-przewodowa | 2002-1207 | -X23 | Wago | 2002-1207 | |
| 46 | 67 | Złączka TOPJOBS 2,5(4) szara 2-przewodowa | 2002-1201 | -XS1 | Wago | 2002-1201 | |

Wykonano dla
Zakład Wodociągów i Kanalizacji "WOD.-KAN"
ul. Św. Faustyny Kowalskiej 9
97-400 Bełchatów

Sprawdził
Andrzej Dąbrowski
12.07.2010

Opracował
Krzysztof Szteleblak



ABCAUTOMA
Sp. J. Andrzej Dąbrowski
Automatyka
Mikroprocesorowa
97-400 Bełchatów
ul.Przemysłowa 9
Tel. 044 733 13 28
Fax. 044 733 13 27

Lista materiałowa
Dmuchawy i sprężarki