

CHAPTER 5 - Diagrams, exploded views and spare parts

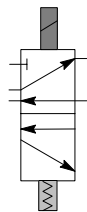
This chapter contains functional diagrams of the machine and exploded views of the COBRA 350 AX. This document will allow you to identify the location of the various components making up the machine, thus enabling repairs and/or maintenance work to be carried out. In addition, this document will also enable you to order spare parts, correctly identifying them by part number and position number.

5.1 - Diagrams

5.1.1 - Pneumatic diagram

KEY TO COMPONENTS

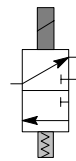
- RPm = vice pressure regulator
- RT1 = flow regulator (head down)
- EV mt = Cutting vice solenoid valve
- EV ma = Feeder vice solenoid valve
- EV s = Trolley locking solenoid valve
- EV a1 = 3/2 feeder solenoid valve
- EV a2 = 5/2 feeder solenoid valve
- EV t1 = 3/2 head cylinder solenoid valve
- EV t2 = 5/2 head cylinder solenoid valve
- EVR = Regenerating solenoid valve



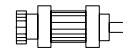
Electro-magnetic 5/2 way valve with pressure and spring return



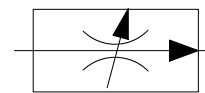
Gauge



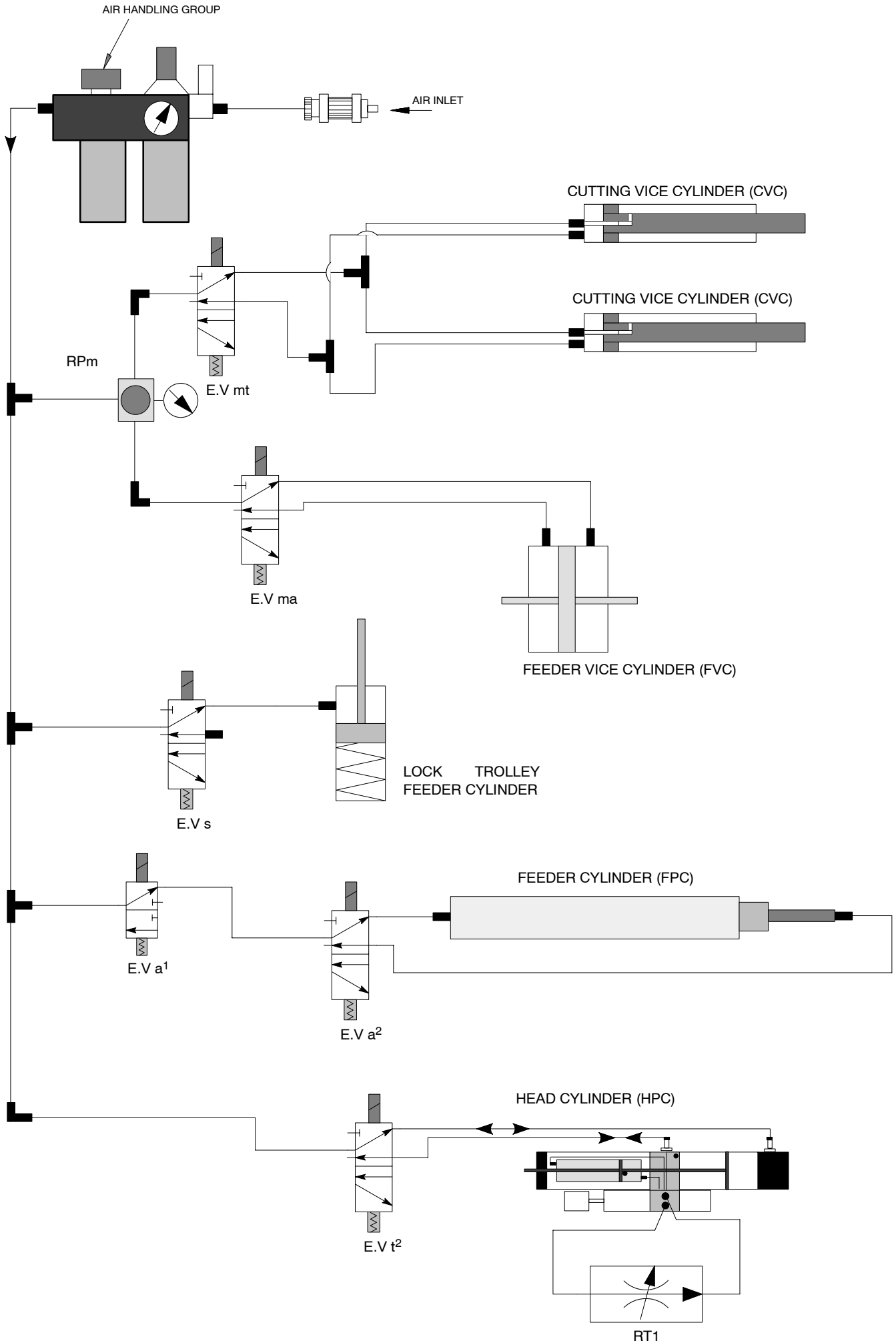
Electro-magnetic 5/2 way valve with pressure and spring return



Compressed air quick fit coupling

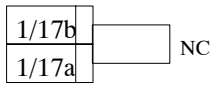


Flow regulator



5.1.2 - IUV and IUD PCB's, MEP 18 controller

LIST OF DIGITAL INPUTS & OUTPUTS FOR COBRA 350 AX



OUTPUT

| | |
|------|-----------------------------|
| 0/16 | REMOTE FLASHER |
| F/15 | FEED BAR CYL. AIR FEED S.V. |
| E/14 | FBC FWD/REV FEED S.V. |
| D/13 | NC |
| C/12 | NC |
| B/11 | NC |
| A/10 | UN/LOCK MEASURING CYLINDER |
| 9/9 | NC |
| 8/8 | NC |
| COM. | 24 Vac ← |

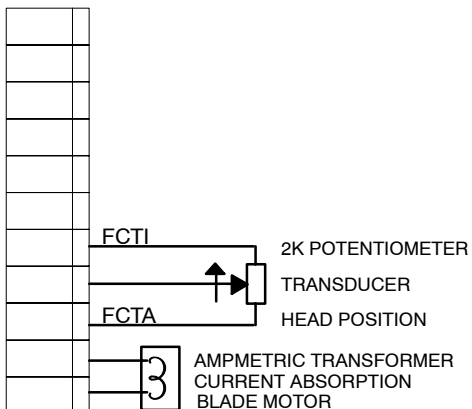
INPUT

| | |
|--------|----------------------------|
| 08 | NC |
| 07 | FEED TROLLEY BACK LIMIT |
| 06 | FEED TROLLEY FORWARD LIMIT |
| 05 | BAR PRESENCE LIMIT |
| 04 | FEEDER GUARD LIMIT |
| 03 | NC |
| 02 | NC |
| 01 | FOOT PEDAL |
| 00 | NC |
| 0 Vcc | 0 Vac →→ |
| 24 Vcc | 24 Vdc →→ |

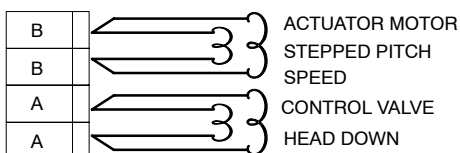
OUTPUT

| | |
|------|-----------------------------------|
| 7/7 | NC |
| 6/6 | NC |
| 5/5 | O/C FVC S.V. |
| 4/4 | O/C CVC S.V. |
| 3/3 | HPC UP/DWN S.V. |
| 2/2 | CENTRE-STAR CONTACTOR - 2ND SPEED |
| 1/1 | 2nd SPEED CONTACTOR |
| 0/0 | 1st SPEED CONTACTOR |
| COM. | 24 Vac ← |

LIST OF VARIOUS INPUTS FOR COBRA 350 AX



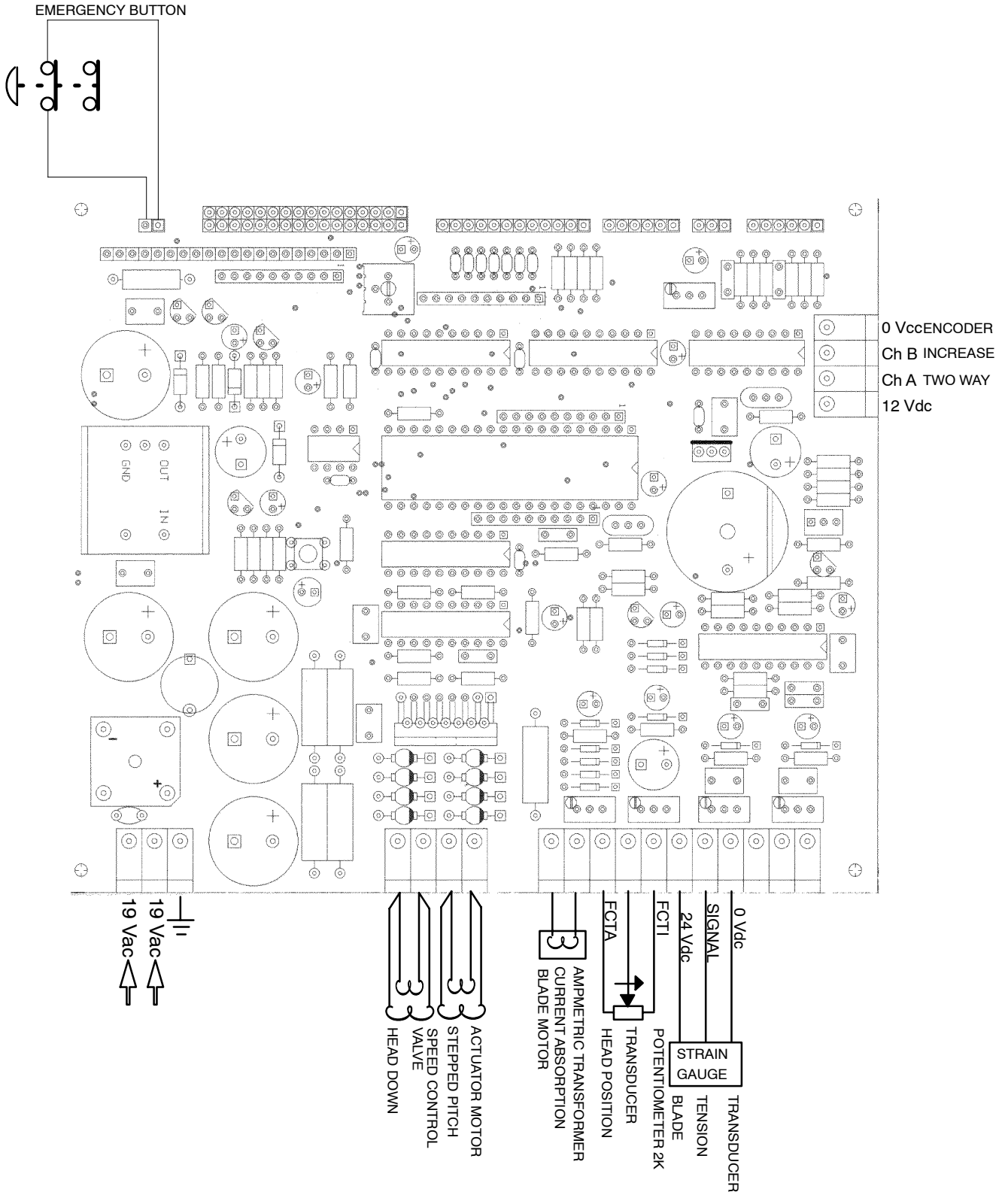
| | |
|--------|----------|
| 0 Vdc | ENCODER |
| Ch B | INCREASE |
| Ch A | TWO WAY |
| 12 Vdc | |



IUV

VARIOUS INPUTS/OUTPUTS

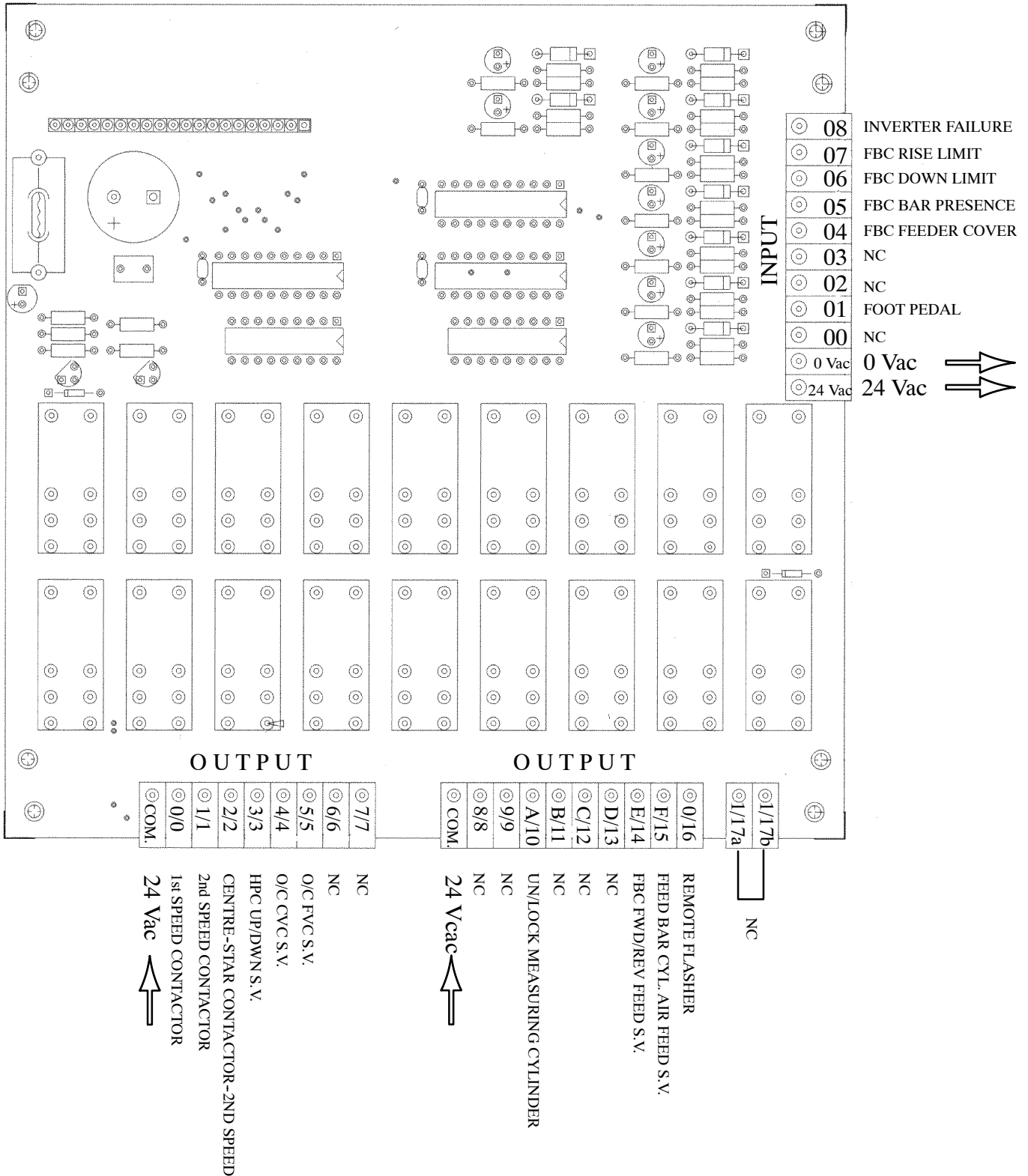
COBRA 350 AX




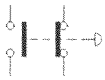
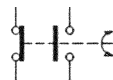
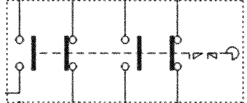
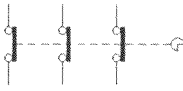
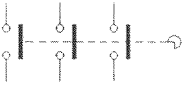







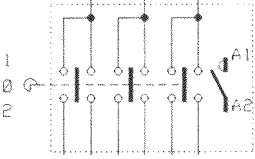
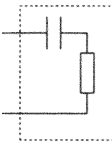
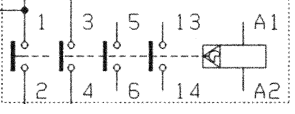



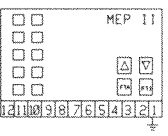
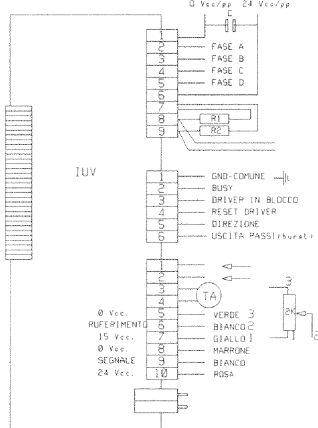
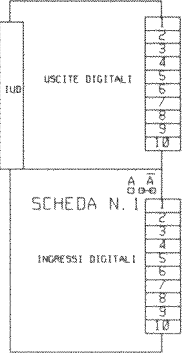
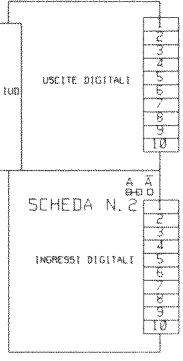
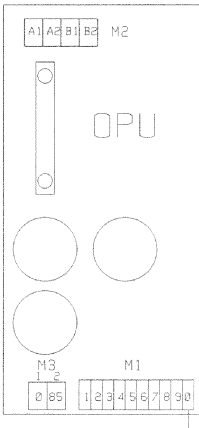
IUV

VARIOUS INPUTS/OUTPUTS


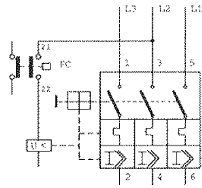
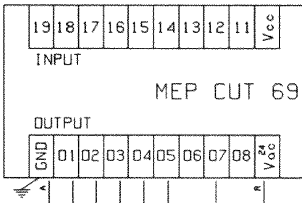

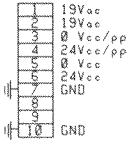
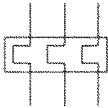
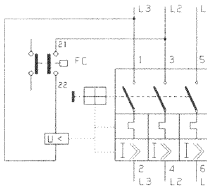
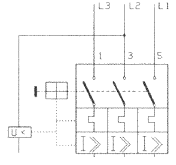

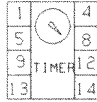


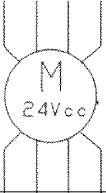
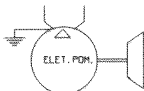
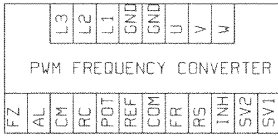
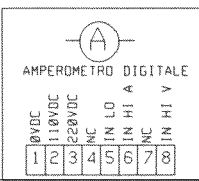
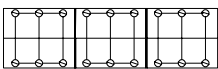
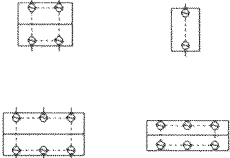
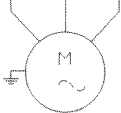
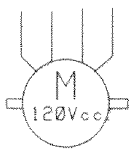
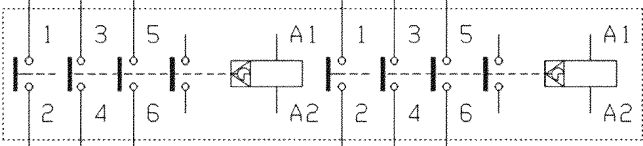

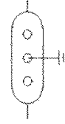
COBRA 350 AX



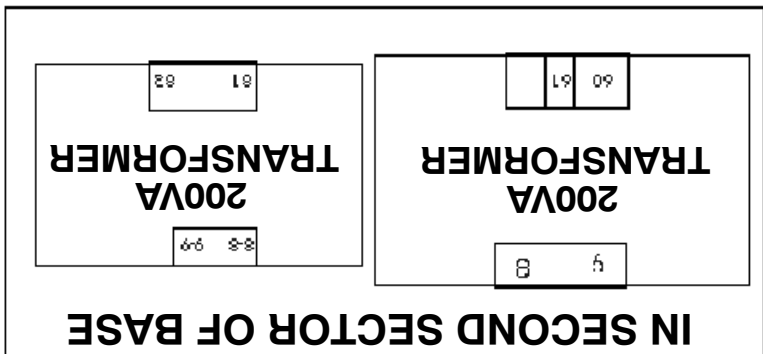
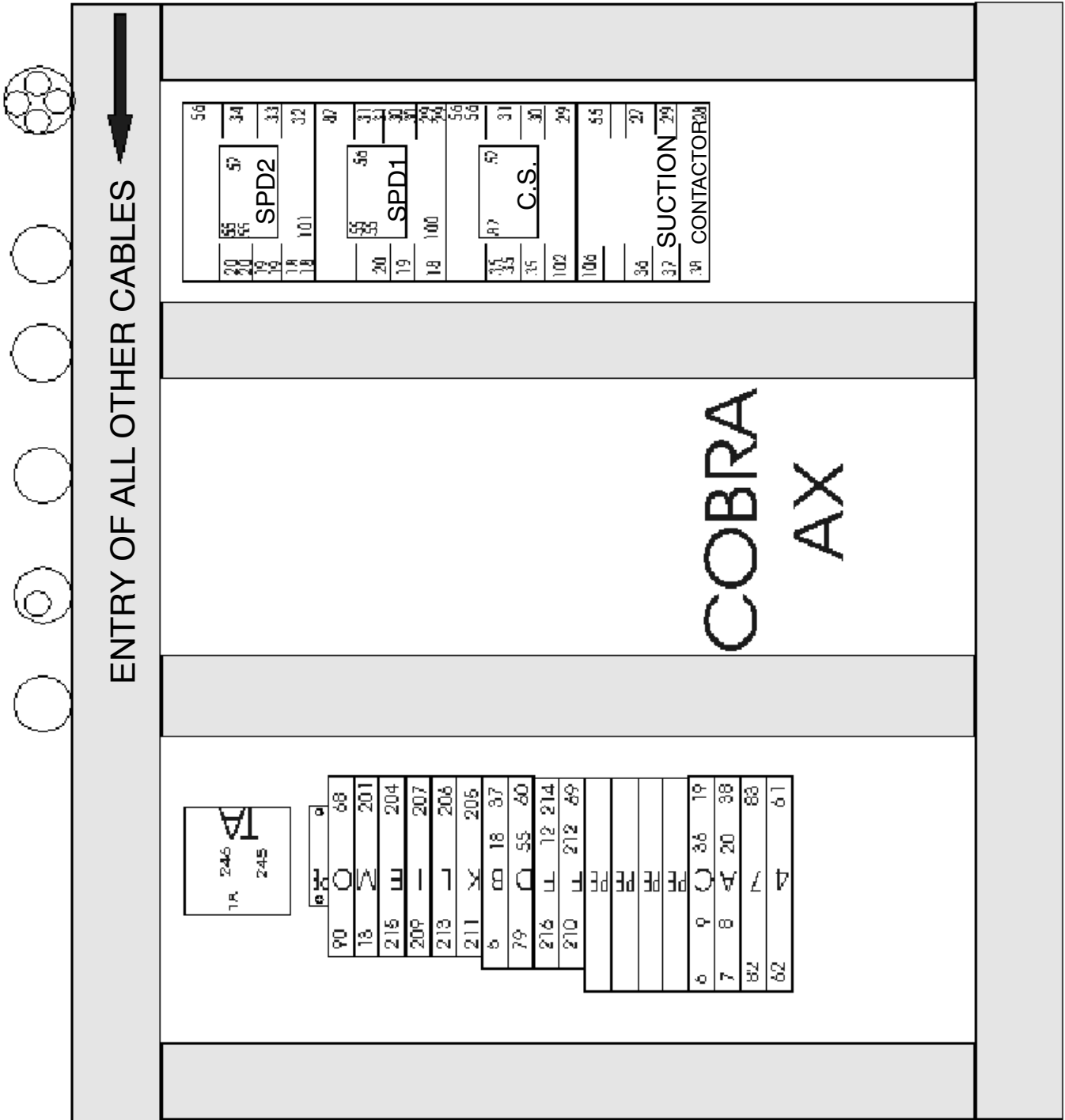
GENERAL KEY TO STANDARDISED ELECTRIC COMPONENTS (CEI STANDARDS)

| | | | |
|---|--|--|---|
| <p>PULSANTE APERTURA/CHIUSURA MORSA (Cod. 022.0948) (Cod. 022.0949)</p>  | <p>EMERGENZA (Cod. 022.0946) (Cod. 022.0947)</p>  | <p>SELETTORE (A 2 Pos. Cod. 022.0962) (A 3 Pos. Cod. 022.0961)</p>  | <p>SELETTORE FLUIDO REFRIGERANTE</p>  |
| <p>PULSANTE MULTIPLO A CAMME NORMALMENTE APERTO</p>  | <p>PULSANTE MULTIPLO A CAMME NORMALMENTE CHIUSO</p>  | <p>MICROINTERRUTTORE (Cod. 022.0515)</p>  | <p>FINECORSA (Cod. 022.0501)</p>  |
| <p>PRESSOSTATO (Cod. 043.0142)</p>  | <p>PEDALIERA (Cod. 043.0502)</p>  | <p>FINECORSA DI SICUREZZA (Cod. 022.0037)</p>  | <p>ELETTROVALVOLA (A 3 vie Cod. 043.0024) (A 5 vie Cod. 043.0023)</p>  |
| <p>DIODO LED (Volt. 24 Cod. 022.0862) (Volt. 110 Cod. 022.0863)</p>  | <p>COMMUTATORE DI POLARITÀ (Cod. 022.0023)</p>  | <p>FILTRO ANTIDISTURBO ELETTROPOMPA (Cod. 022.0650)</p>  | <p>CONTATTORE MOTORE (Cod. 022.0087)</p>  |
| <p>BOBINA DI COMANDO (Cod. 022.0612)</p>  | <p>POTENZIOMETRO (Cod. 022.0046)</p>  | <p>TRASFORMATORE (Cod. 022.0070)</p>  | <p>CONTROLLORE MEP 11 (Cod. 022.0806)</p>  |
| <p>SCHEDA IUUV (Cod. 022.0831)</p>  | <p>SCHEDA 1 IN/OUT DIGITALI IUUV</p>  | <p>SCHEDA 2 IN/OUT DIGITALI IUUV</p>  | <p>SCHEDA OPU (Cod. 022.0891)</p>  |

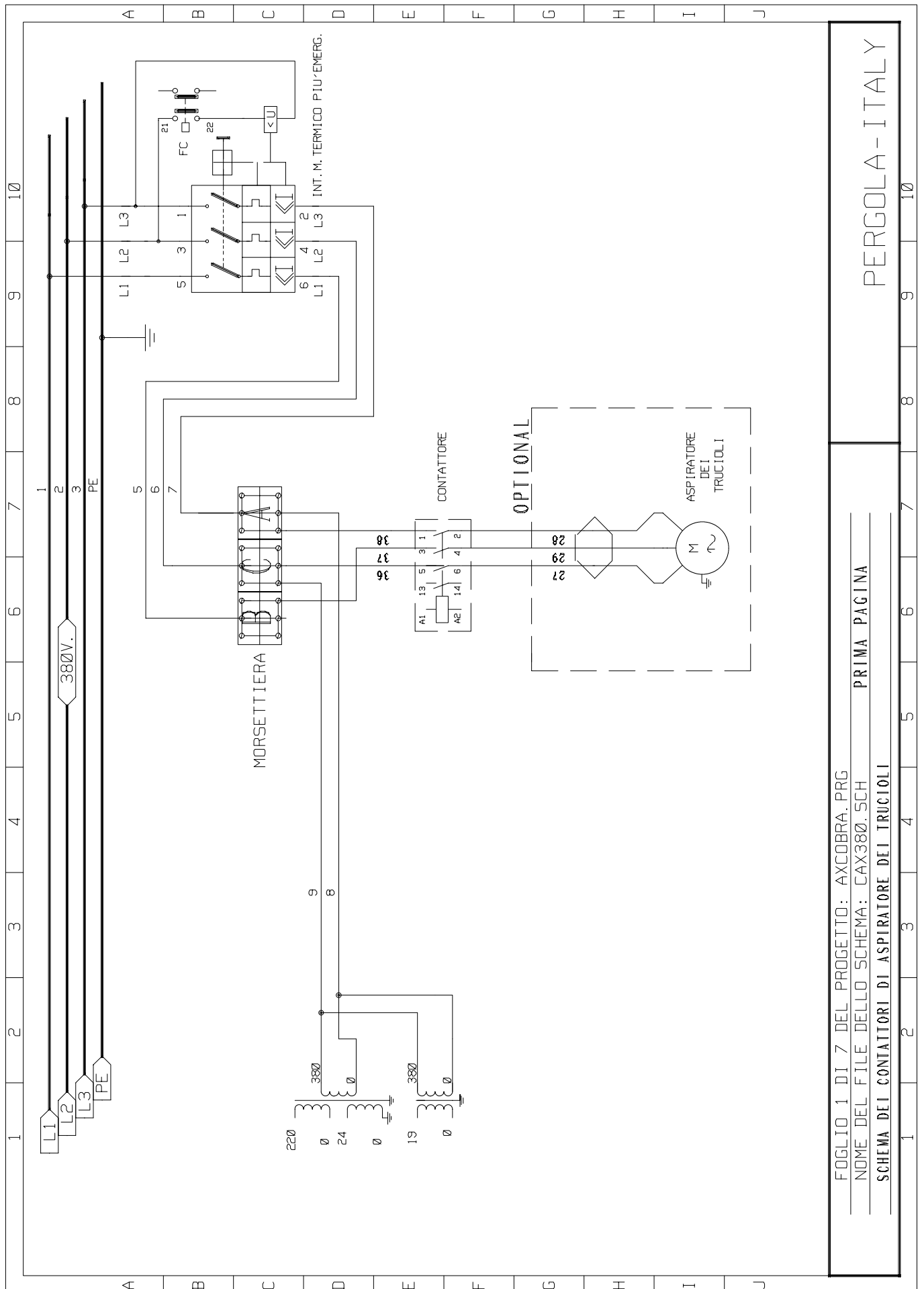
GENERAL KEY TO STANDARDISED ELECTRIC COMPONENTS (CEI STANDARDS)

| | | | |
|---|---|---|--|
| <p>SCHERMO</p>  | <p>INTERRUTTORE MAGNETO-TERMICO (D)</p>  | <p>CONTROLLORE MEP 69 (Cod. 022.0805)</p>  | <p>STRAIN GAUGE (Cod. 022.2151)</p>  |
| <p>MORSETTIERA SCHEDA CPU</p>  | <p>DISGIUNTORE TERMICO</p>  | <p>INTERRUTTORE MAGNETO-TERMICO + EMERGENZA + FC (D)</p>  | <p>INTERRUTTORE MAGNETO-TERMICO + EMERGENZA</p>  |
| <p>BOBINA A CHIUSURA MECCANICA</p>  | <p>TIMER (Cod. 022.0091)</p>  | <p>MORSETTO + FUSIBILE</p>  | <p>PROTEZIONE DA CORTO-CIRCUITI</p>  |
| <p>MOTORE MAE HY (Cod. 019.3551)</p>  | <p>ELETTROPOMPA (Cod. 028.0251)</p>  | <p>CONVERTITORE DI FREQUENZA (Cod. 022.0793)</p>  | <p>AMPEROMETRO DIGITALE (Cod. 022.0989)</p>  |
| <p>MORSETTIERA A GRUPPI DA TRE</p>  | <p>MORSETTI</p>  | <p>MOTORE PRINCIPALE (Cod. 019.1706)</p>  | <p>MOTORE JAPAN SERVO KP (Cod. 019.3401)</p>  |
| <p>TELEINVERTITORE</p>  | | <p>MORSETTI AUSILIARI</p>  | <p>MORSETTIERA</p>  |

LAY-OUT DIAGRAM OF ELECTRICAL PLANT

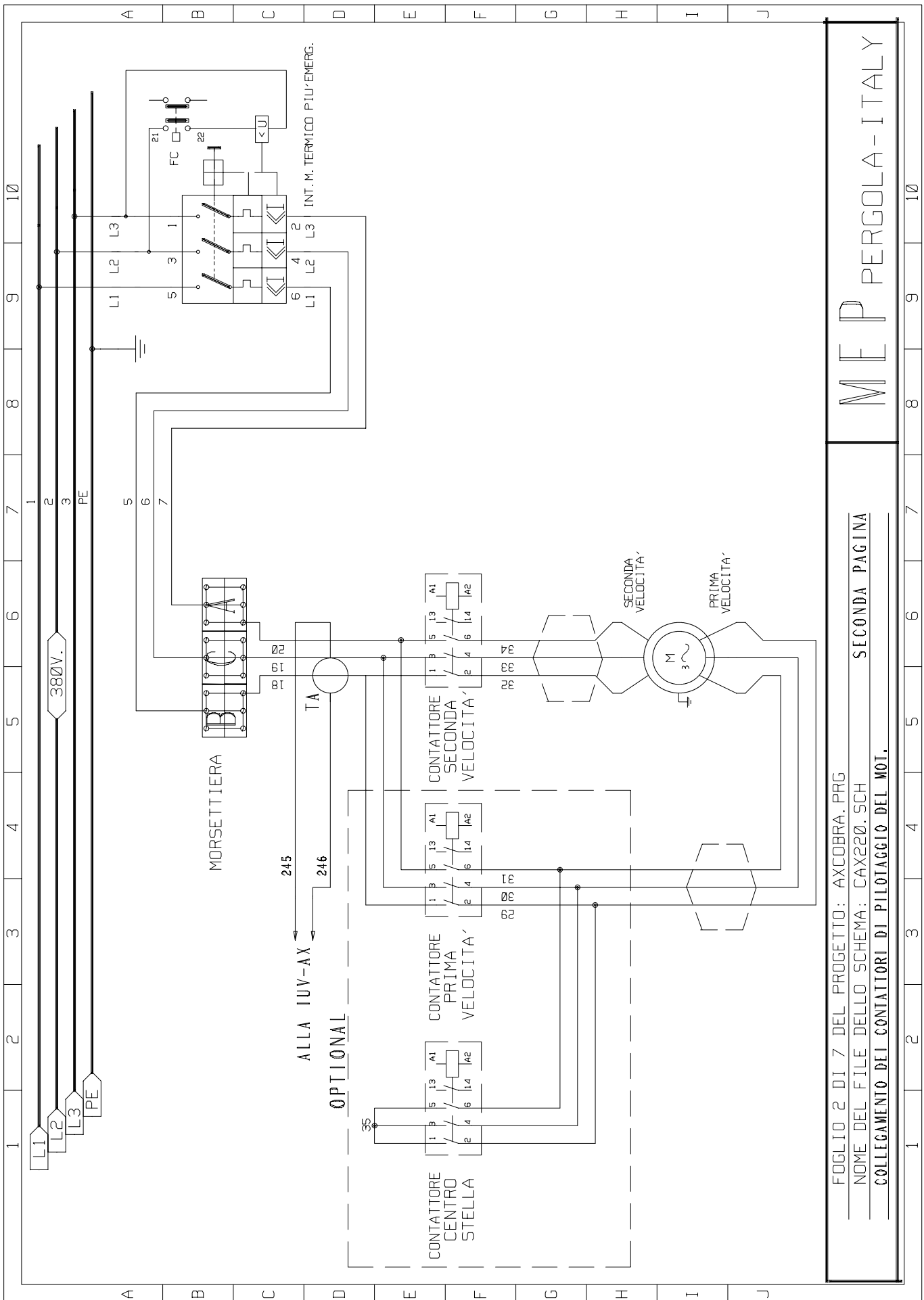


5.1.3 - Standardised wiring diagrams (CEI standards)



FOGLIO 1 DI 7 DEL PROGETTO: AXCOBRA.PRG
 NOME DEL FILE DELLO SCHEMA: CAX380.SCH
 SCHEMA DEI CONTATTORI DI ASPIRATORE DEI TRUCIOLI
 PERGOLA-ITALY
 PRIMA PAGINA

(cont.d) Standardised wiring diagrams



FOGLIO 2 DI 7 DEL PROGETTO: AXCOBRA.PRG

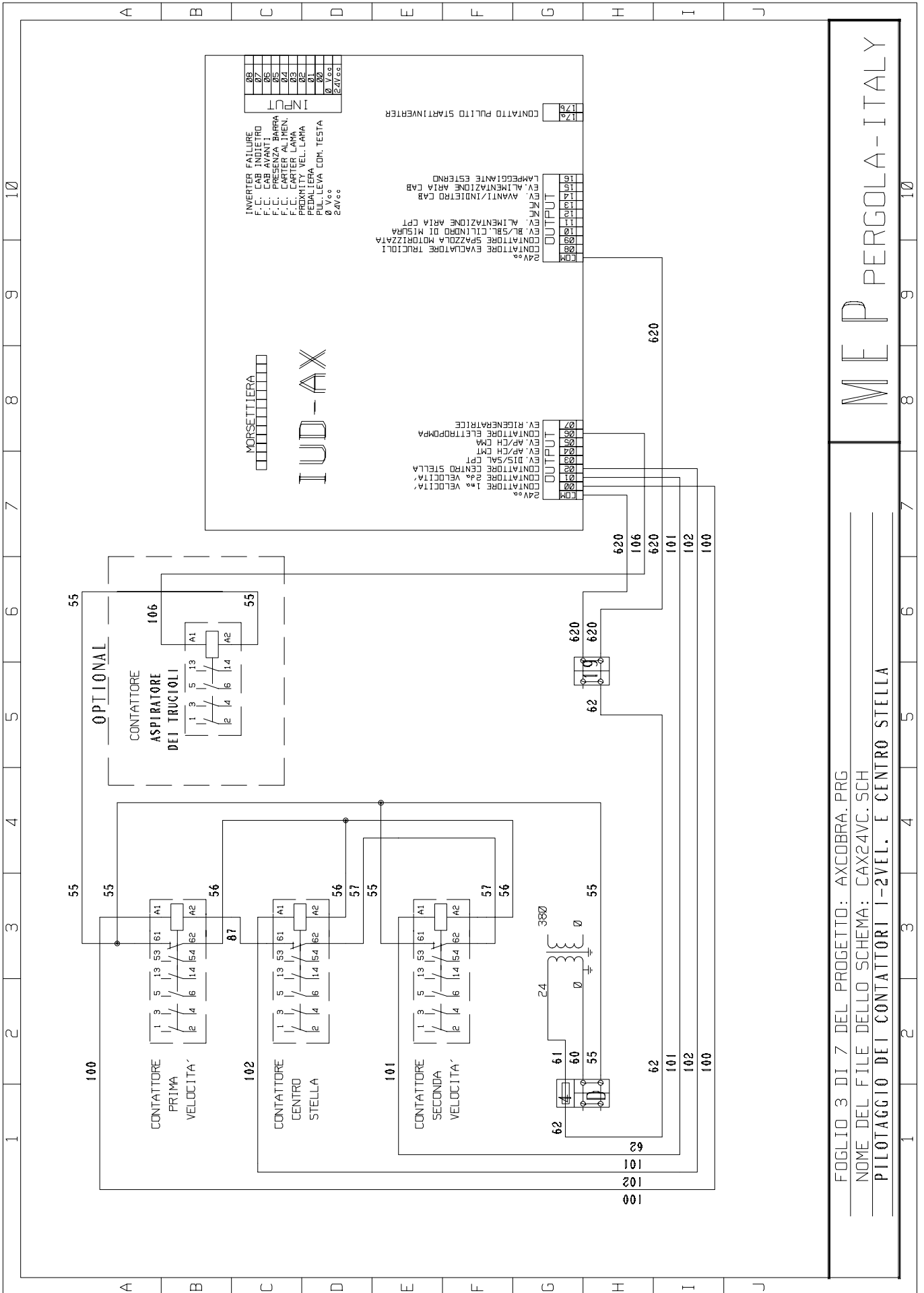
NOME DEL FILE DELLO SCHEMA: CAX220.SCH

COLLEGAMENTO DEI CONTATTORI DI PILOTAGGIO DEL MOT.

SECONDA PAGINA

MEP PERGOLA-ITALY

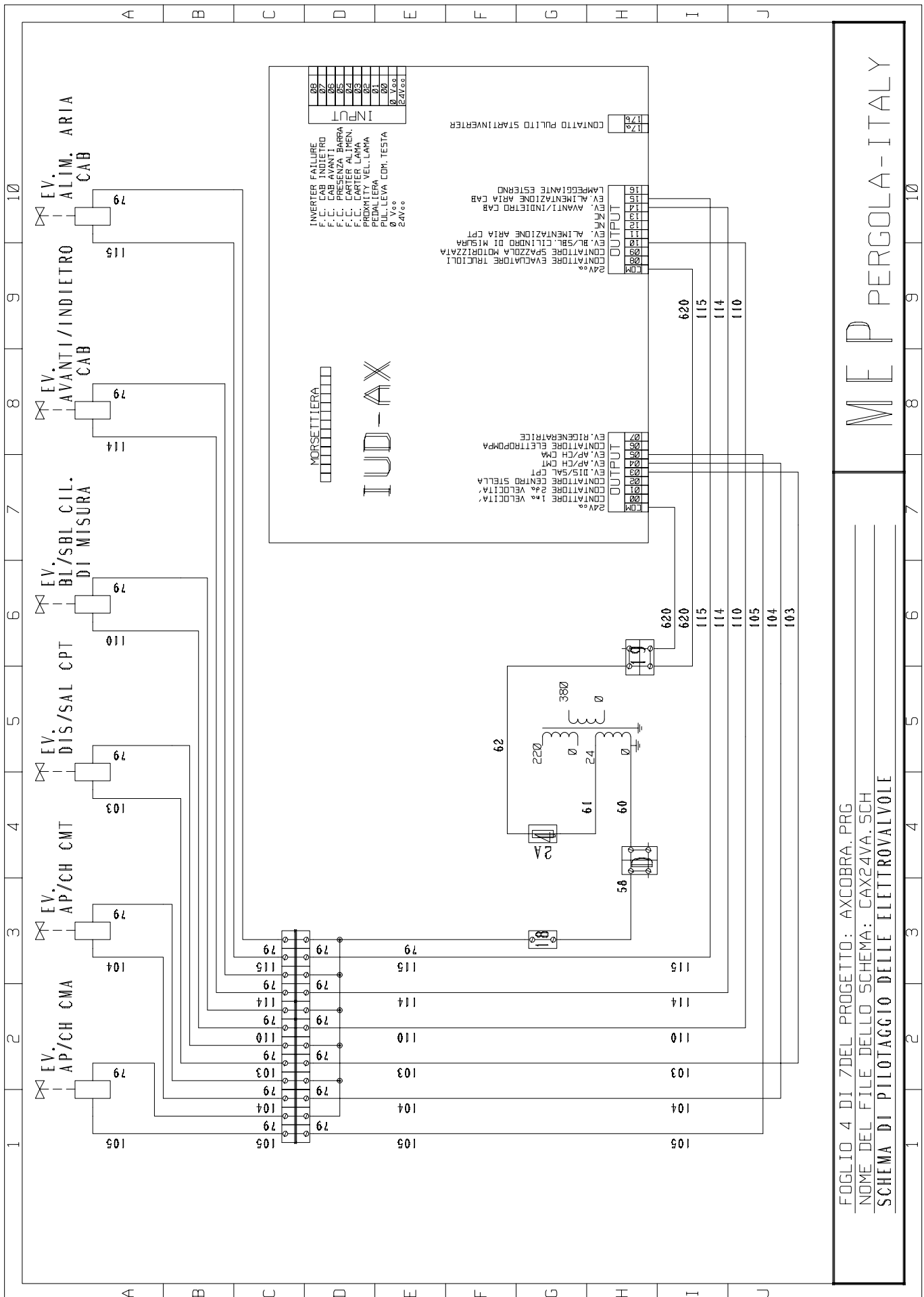
(cont.d) Standardised wiring diagrams



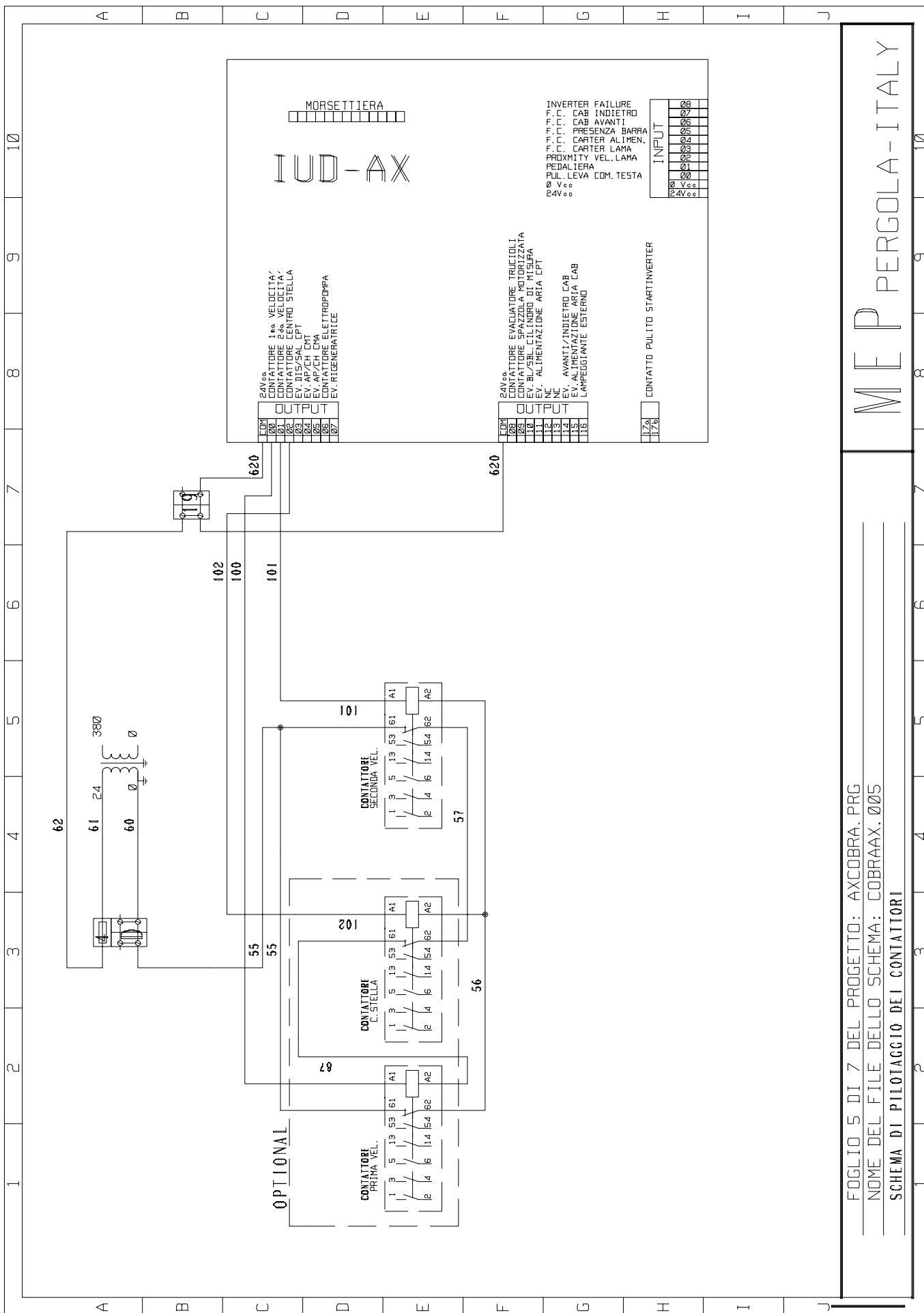
MEP PERGOLA-ITALY

FOGLIO 3 DI 7 DEL PROGETTO: AXCOBRA.PRG
 NOME DEL FILE DELLO SCHEMA: CAX24VC.SCH
 PILOTAGGIO DEI CONTATTORI 1-2VEL. E CENTRO STELLA

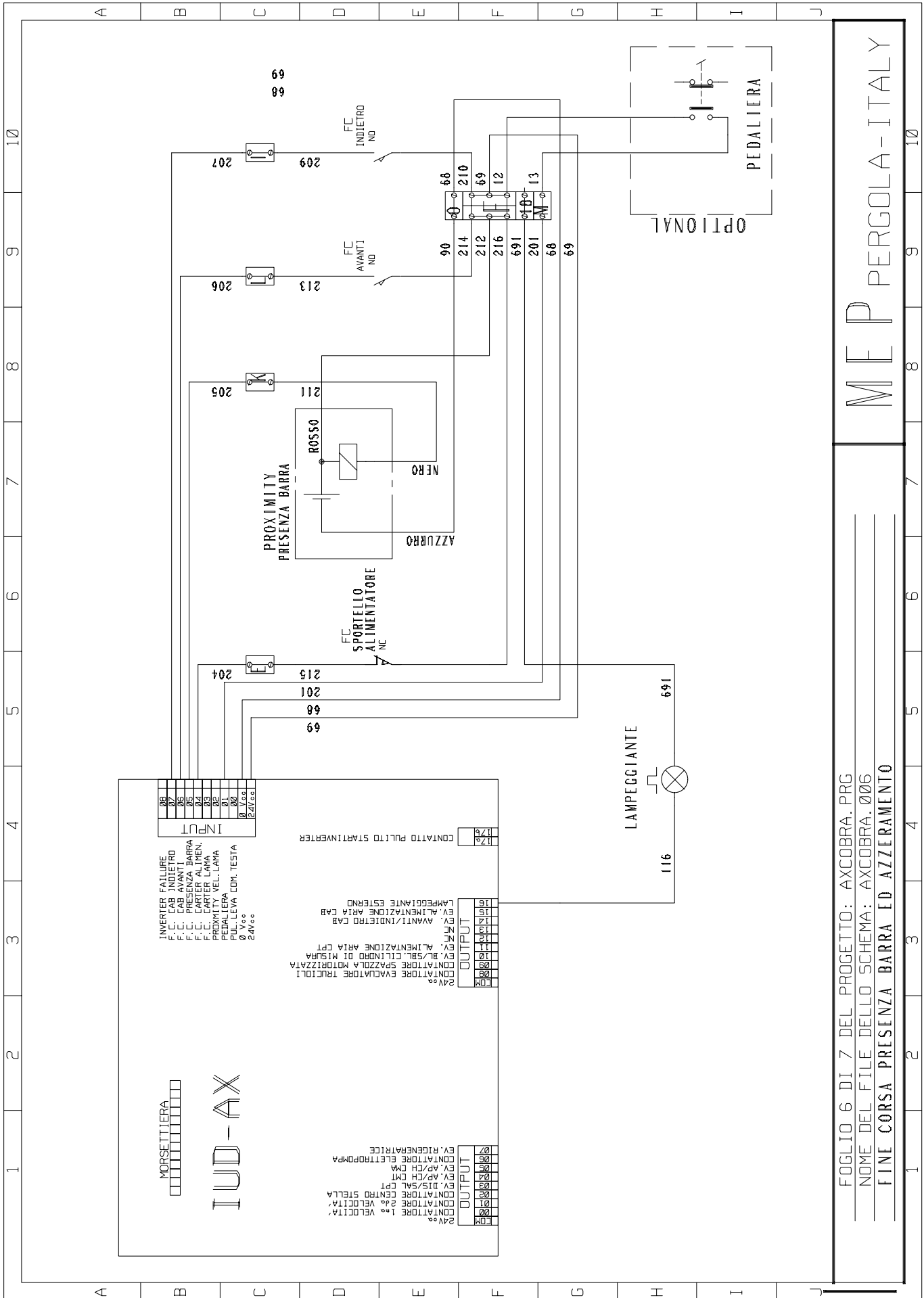
(cont.d) Standardised wiring diagrams



(cont.d) Standardised wiring diagrams



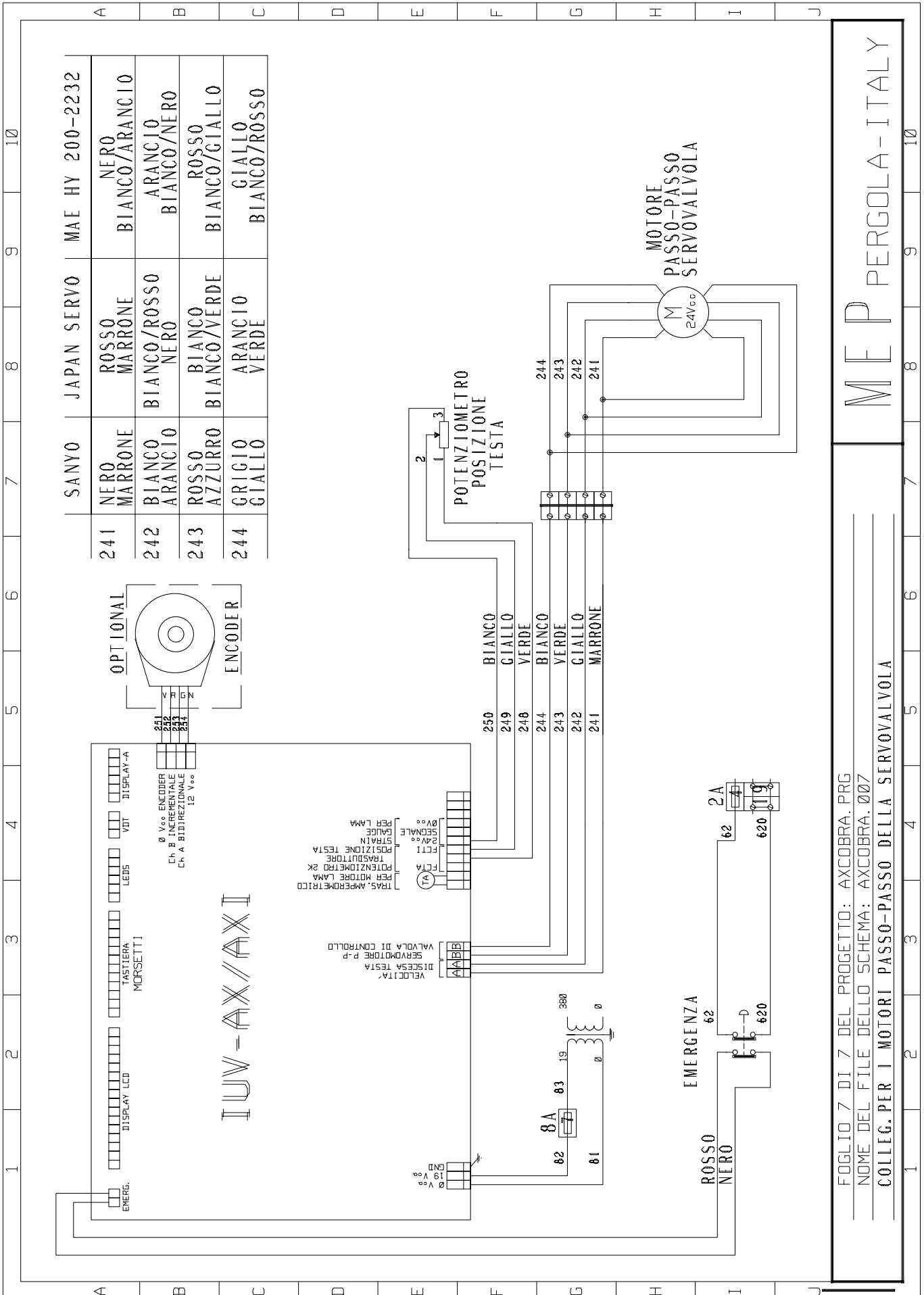
(cont.d) Standardised wiring diagrams



FOGLIO 6 DI 7 DEL PROGETTO: AXCOBRA. PRG
 NOME DEL FILE DELLO SCHEMA: AXCOBRA.006
 FINE CORSA PRESENZA BARRA ED AZZERAMENTO

MEP PERGOLA-ITALY

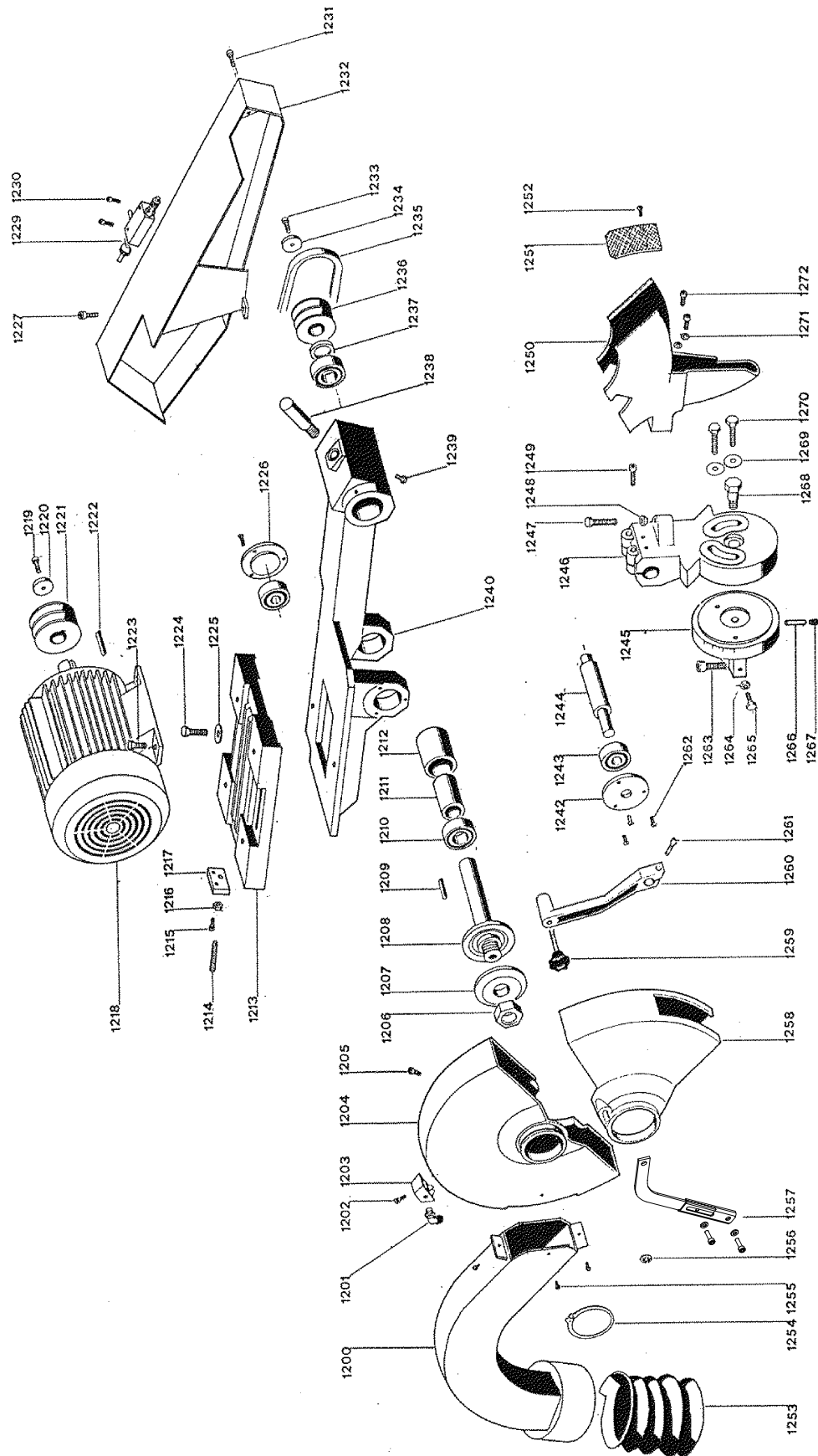
(cont.d) Standardised wiring diagrams



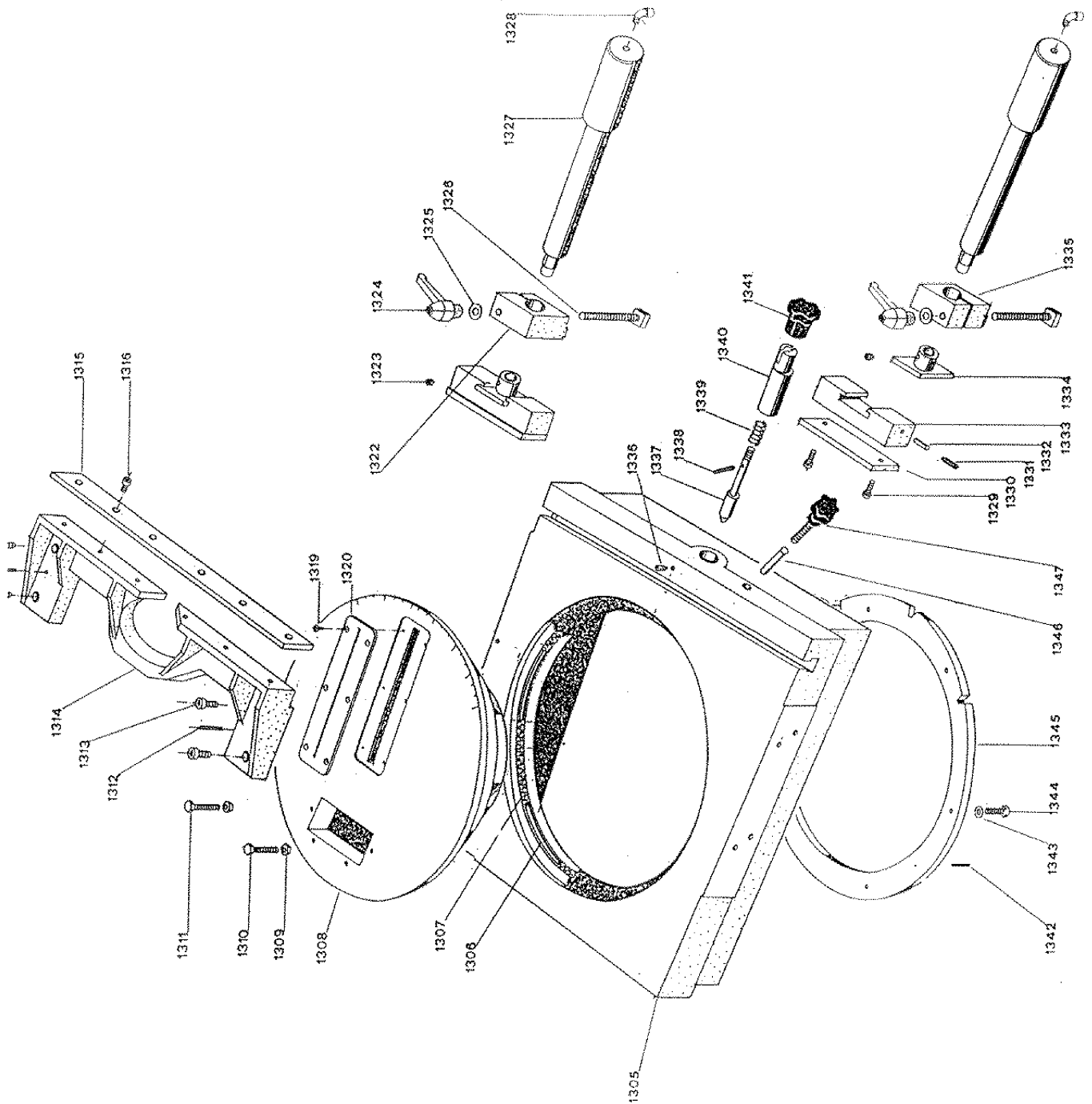
5.2 - Exploded views

This part of the manual contains a selection of exploded views, which will assist in gaining a thorough knowledge of the machine.

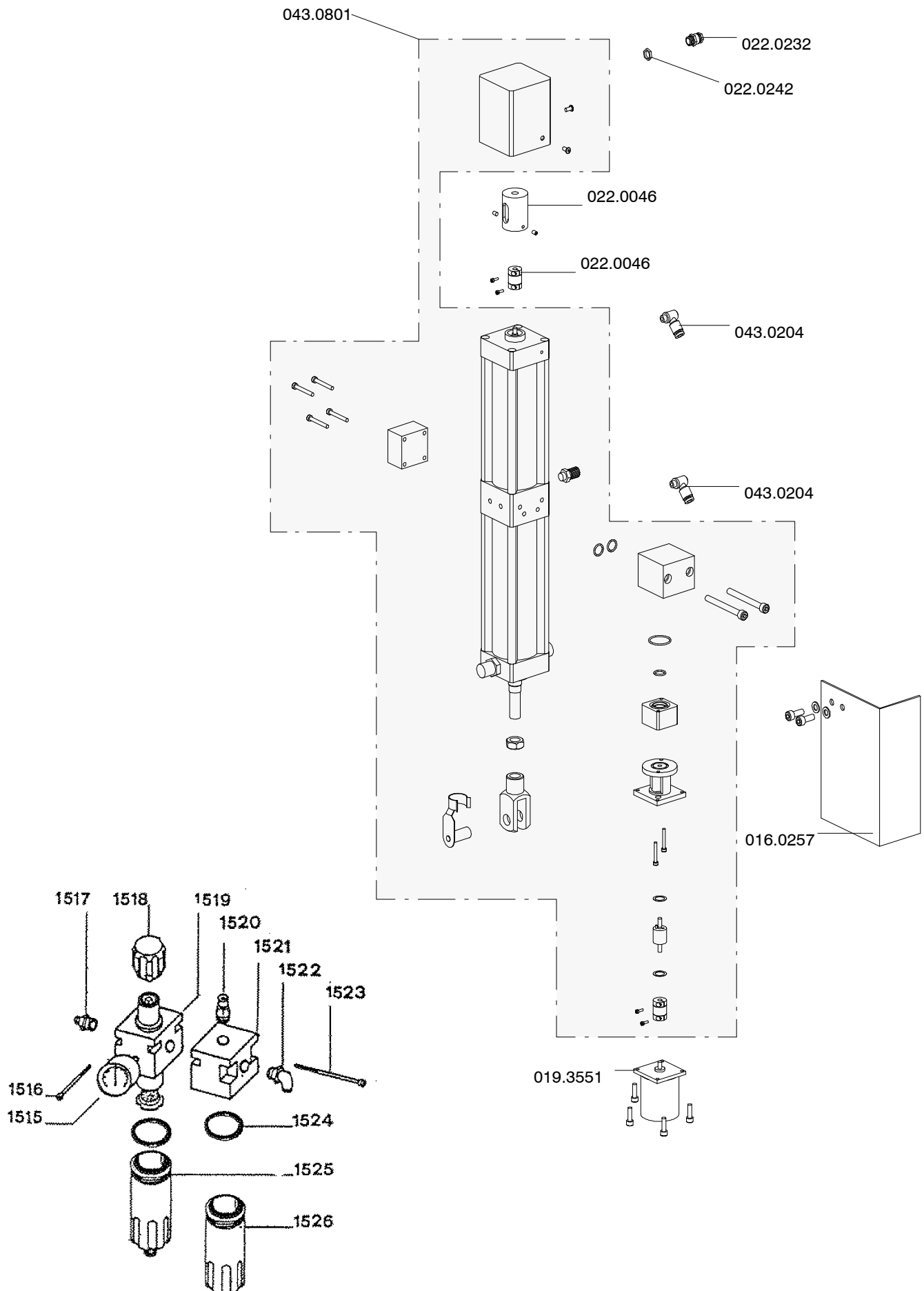
5.2.1 - Head assembly



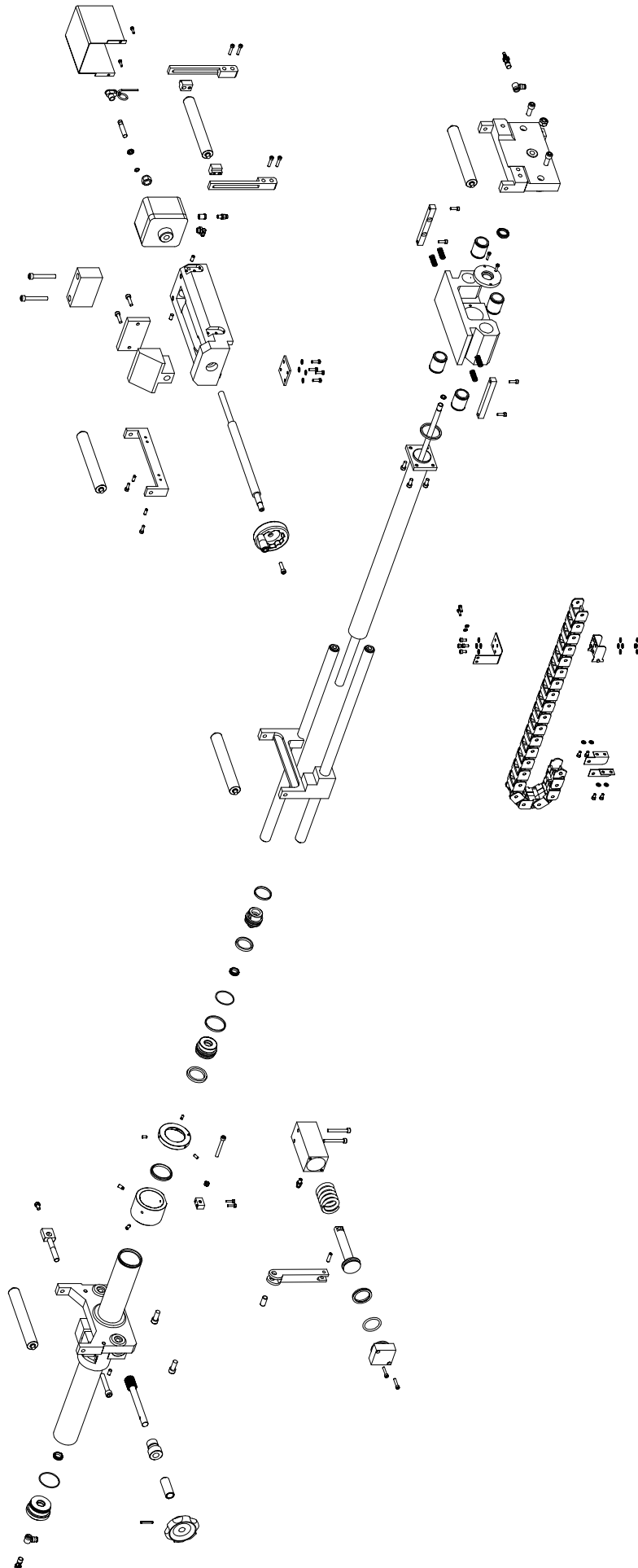
5.2.2 - Worktop and cutting vice assembly



5.2.3 - Air handling group and pneumatic cylinder



5.2.4 - Feeder assembly



5.3 - Spare parts

| Posizione | Codice | Descrizione | U.M. | Q.tà |
|------------------------|----------|-------------------------------------|------|-------|
| Codici di gruppo | 043.0156 | BATT.4 ELETT.MEP4DESE POS.1719/1723 | NR | 1,000 |
| | 043.0560 | GRUPPO TRATT.ARIA 3/8 POS.1517/1526 | NR | 1,000 |
| | 090.0101 | GRUPPO MORSA POS. 1322/1335 | NR | 1,000 |
| | 090.0402 | DISP.BLOCC P.GIREV. POS.1337/1341 | NR | 1,000 |
| | 016.0020 | CONVOGLIATORE TRUCIOLI | NR | 1,000 |
| 1201 | 043.0269 | RACCORDO CL 1500 6/4 1/8 | NR | 1,000 |
| 1202 | 010.1201 | VITE TCEI 5 X 20 | NR | 1,000 |
| 1203 | 005.2005 | SPRUZZATORE RUBINETTO | NR | 1,000 |
| 1204 | 005.2103 | CARTER DISCO PER CONVOG. | NR | 1,000 |
| 1205 | 010.1201 | VITE TCEI 6 X 20 | NR | 2,000 |
| 1206 | 010.0404 | DADO ESAGONALE MM.25 P. 2 | NR | 1,000 |
| 1207 | 001.1503 | FLANGIA ESTERNA | NR | 1,000 |
| 1208 | 011.0005 | ALBERO PORTADISCO | NR | 1,000 |
| 1209 | 010.1201 | CHIAVELLA 8 X 7 X 32 | NR | 1,000 |
| 1210 | 025.0055 | CUSCINETTO 62.05 2Z C3 | NR | 2,000 |
| 1211 | 007.1903 | DISTAN.CUSCINETTO INTERNO | NR | 1,000 |
| 1212 | 007.1902 | DISTAN.CUSCINETTO ESTERNO | NR | 1,000 |
| 1213 | 001.1906 | PIANA MOTORE | NR | 1,000 |
| 1214 | 010.1201 | VITE V.C.E. 8 X 45 | NR | 1,000 |
| 1215 | 010.1201 | VITE TCEI 6 X 16 | NR | 2,000 |
| 1216 | 010.1201 | DADO ESAGONALE M 10 | NR | 1,000 |
| 1217 | 007.2501 | PIASTRA REGOLAZIONE CINGHIA | NR | 1,000 |
| 1218 | 019.0702 | MOTORE 1 VEL.TRIF.-1 SPEED VOLTS... | NR | 1,000 |
| 1219 | 010.1201 | VITE TE 6 X 16 | NR | 1,000 |
| 1220 | 010.1201 | RONDELLA FL 0 6 | NR | 1,000 |
| 1221 | 025.0172 | PULEGGIA 60X2 SPZ | NR | 1,000 |
| 1222 | 010.1201 | CHIAVELLA 8 X 7 X 25 | NR | 1,000 |
| 1223 | 010.1201 | VITE TE 8 X 25 | NR | 4,000 |
| 1224 | 010.1201 | VITE TE 8 X 35 | NR | 2,000 |
| 1225 | 010.1201 | RONDELLA 0 8 | NR | 2,000 |
| 1226 | 001.1912 | COPERCHIO SNODO TESTA | NR | 1,000 |
| 1227 | 010.1201 | VITE TCEI 6 X 16 | NR | 1,000 |
| 1229 | 043.0641 | NEBULIZZATORE A DEPR. T.7240201 | NR | 1,000 |
| 1230 | 010.1201 | VITE TCEI 4 X 20 | NR | 2,000 |
| 1231 | 010.1201 | VITE TCEI 6 X 16 | NR | 1,000 |
| 1232 | 016.0099 | CARTER CINGHIA | NR | 1,000 |
| 1233 | 010.1201 | VITE TCEI 8 X 20 | NR | 1,000 |
| 1234 | 010.1201 | RONDELLA FL 0 8 | NR | 1,000 |
| 1235 | 025.0025 | CINGHIA SPZ 900 S.TX | NR | 2,000 |
| 1236 | 025.0171 | PULEGGIA 50X2 SPZ | NR | 1,000 |
| 1237 | 007.1904 | DISTANZIALE PULEGGIA | NR | 1,000 |
| 1238 | 007.1602 | ASTA COMANDO MANUALE | NR | 1,000 |
| 1239 | 010.1201 | VITE TCEI 6 X 12 | NR | 1,000 |
| 1240 | 001.1913 | BILANCIERE | NR | 1,000 |
| 1242 | 001.1912 | COPERCHIO SNODO TESTA | NR | 1,000 |
| 1243 | 025.0054 | CUSCINETTO 62.03 2Z | NR | 2,000 |
| 1244 | 007.2351 | PERNO SUPPORTO SNODO TESTA | NR | 1,000 |
| 1245 | 001.1904 | SUPPORTO PIANO GIREVOLE | NR | 1,000 |
| 1246 | 001.1905 | SUPPORTO SNODO TESTA | NR | 1,000 |
| 1247 | 010.1201 | VITE TE 10 X 40 | NR | 1,000 |
| 1248 | 010.1201 | DADO ESAGONALE M 10 | NR | 1,000 |
| 1249 | 010.1201 | VITE TCEI 8 X 30 | NR | 2,000 |
| 1250 | 004.0502 | PROTEZIONE FISSA | NR | 1,000 |
| 1251 | 028.0202 | GOMMA TELATA MM. 5 | KG | ,040 |
| 1252 | 010.1201 | VITE TSPEI 5 X 12 | NR | 2,000 |
| 1253 | 028.0165 | TUBO X ASPIRATORE | MT | 3,000 |
| 1254 | 010.1201 | ANELLO SEEGER 0 65 | NR | 1,000 |
| 1255 | 010.1201 | VITE TCEI 4 X 8 | NR | 4,000 |
| 1256 | 010.1201 | ANELLO SEEGER SK8 | NR | 1,000 |

| Posizione | Codice | Descrizione | U.M. | Q.tà |
|-----------|----------|--------------------------------|------|---------|
| 1257 | 016.0223 | ASTA COMANDO PROTEZIONE | NR | 1,000 |
| 1258 | 005.2102 | PROTEZIONE DISCO 0 350 | NR | 1,000 |
| 1259 | 034.0109 | VOLANTINO 0 30 M6 X 70 | NR | 1,000 |
| 1260 | 004.0503 | SUPPORTO ASTA PROTEZIONE | NR | 1,000 |
| 1261 | 010.1201 | VITE TCEI 6 X 20 | NR | 1,000 |
| 1262 | 010.1201 | VITE TSP 4 X 12 | NR | 3,000 |
| 1263 | 010.1201 | VITE TCEI 10 X 30 | NR | 2,000 |
| 1264 | 010.1201 | DADO ESAGONALE M 10 | NR | 2,000 |
| 1265 | 010.1201 | VITE TE 10 X 30 | NR | 2,000 |
| 1266 | 007.2363 | PERNO BLOCC.VITE SNODO TESTA | NR | 1,000 |
| 1267 | 010.1201 | VITE VCE P.P. 8 X 10 | NR | 1,000 |
| 1268 | 007.2353 | VITE ESAGONO SNODO TESTA | NR | 1,000 |
| 1269 | 010.1201 | RONDELLA 0 10 | NR | 2,000 |
| 1270 | 010.1201 | VITE TE 10 X 40 | NR | 2,000 |
| 1271 | 010.1201 | RONDELLA 0 6 | NR | 2,000 |
| 1272 | 010.1201 | VITE TCEI 6 X 20 | NR | 2,000 |
| 1305 | 001.1901 | BASAMENTO | NR | 1,000 |
| 1306 | 010.1691 | DISTANZIALE RULLINI | NR | 5,000 |
| 1307 | 025.0451 | RULLI 6X6 | NR | 105,000 |
| 1308 | 001.1902 | PIANO GIREVOLE | NR | 1,000 |
| 1309 | 010.1201 | DADO ESAGONALE M 10 | NR | 2,000 |
| 1310 | 010.1201 | VITE TE 10 X 30 | NR | 1,000 |
| 1311 | 010.1201 | VITE TE 10 X 30 | NR | 1,000 |
| 1312 | 010.1201 | SPINA ELASTICA 6 X 30 | NR | 2,000 |
| 1313 | 010.1201 | VITE TCEI 10 X 30 | NR | 4,000 |
| 1314 | 001.1914 | SQUADRO MORSA | NR | 1,000 |
| 1315 | 007.2369 | GANASCIA FISSA SUPPL. 38X8 | NR | 1,000 |
| 1316 | 010.1201 | VITE TCEI 5 X 12 | NR | 6,000 |
| 1319 | 010.1201 | VITE TSPEI 5 X 12 | NR | 6,000 |
| 1320 | 007.2366 | PIASTRA PIANO GIREVOLE | NR | 1,000 |
| 1322 | 007.2152 | SUPPORTO CANNOTTO MORSA | NR | 1,000 |
| 1323 | 010.1201 | VITE VCE P.C. 8 X 16 | NR | 2,000 |
| 1324 | 034.1003 | LEVA A SCATTO 12 MA | NR | 2,000 |
| 1325 | 010.1201 | RONDELLA 0 12 | NR | 2,000 |
| 1326 | 010.0302 | VITE T.Q. 22X22 M 12X80 | NR | 2,000 |
| 1327 | 043.0032 | CILINDRO MORSE MM. 50 X 60 | NR | 2,000 |
| 1328 | 043.0208 | ATTACCO A GOMITO 8X1/8 CL 6500 | NR | 2,000 |
| 1329 | 010.1201 | VITE TCEI 6 X 16 | NR | 4,000 |
| 1330 | 007.2370 | GANASCIA MOBILE SUPPL. 38X8 | NR | 2,000 |
| 1331 | 010.1201 | VITE VCE P.CIL. 8 X 16 | NR | 2,000 |
| 1332 | 007.2169 | PERNO BLOCCAGGIO GANASCIA | NR | 2,000 |
| 1333 | 007.2162 | GANASCIA MORSA | NR | 2,000 |
| 1334 | 007.2165 | SUPPORTO GANASCIA MORSA | NR | 2,000 |
| 1335 | 007.2152 | SUPPORTO CANNOTTO MORSA | NR | 1,000 |
| 1336 | 010.1201 | VITE VCE P. CIL. 8 X 16 | NR | 1,000 |
| 1337 | 007.2358 | PERNO PUNTO FISSO | NR | 1,000 |
| 1338 | 010.1201 | SPINA ELASTICA 4 X 20 | NR | 1,000 |
| 1339 | 010.0902 | MOLLE PUNTO FISSO TESTA | NR | 1,000 |
| 1340 | 007.2357 | ECCENTRICO PUNTO FISSO | NR | 1,000 |
| 1341 | 034.1203 | IMPUGNATURA NS. DISEGNO M10 | NR | 1,000 |
| 1342 | 010.1201 | SPINA ELASTICA 6 X 35 | NR | 2,000 |
| 1343 | 010.1201 | RONDELLA 0 8 | NR | 6,000 |
| 1344 | 010.1201 | VITE TE 8 X 30 | NR | 6,000 |
| 1345 | 001.1903 | ANELLO PIANO GIREVOLE | NR | 1,000 |
| 1346 | 007.2362 | PERNO BLOCC. PIANO GIREVOLE | NR | 1,000 |
| 1347 | 034.1111 | VOLANTINO 0 30 M10 X 40 | NR | 1,000 |

