



POLITECNICO DI MILANO

Area Tecnico Edilizia

P.zza Leonardo da Vinci, 32 - 20133 MILANO

PHONE: +39 02 2399.1 www.polimi.it

Campus: LEONARDO

Edificio N°: 3 - Padiglione sud
piazza Leonardo da Vinci, 32 - MILANO
Struttura:
Amministrazione Centrale

Codice Lavoro:
1065_10

Oggetto:

REALIZZAZIONE DEGLI IMPIANTI DI RAFFRESCAMENTO
E RISTRUTTURAZIONE DELLE AULE

PROGETTO ESECUTIVO

Responsabile del Procedimento: arch. Mauro Rizzieri - A.T.E.

Responsabile del Progetto: ing. Gianluca Noto - A.T.E.

Progetto Opere Civili: AREA TECNICO EDILIZIA - ing. Gianluca Noto (R)

Progetto Opere Strutturali: S. T. STRUTTURA ARCHITETTURA - ing. Maurizio Colombo (R)

Progetto Impianti Meccanici: POOL PROFESSIONALE MILANO s.r.l. - ing. Antonio Simonato (R)

Progetto Impianti Elettrici: AREA TECNICO EDILIZIA - ing. Fabio Innao (R)

Verifiche Acustiche: CONSULTIN & MANAGEMENT - ing. Enzo Rendina (R)

*Coordinatore per la sicurezza
in fase di progettazione:* geom. Serafino Celestino

| Titolo Tavola | | Categoria Tavola | |
|-------------------------|-------------|--------------------|---------------------------------------|
| SCHEMI QUADRI ELETTRICI | | IMPIANTI ELETTRICI | |
| Codice Tavola | | SCALA: 1:100 | PLOTTAGGIO: 1=1 |
| PROGR. | | NOME FILE: | 122IE09_PIANTA_PIANO_SEMINTERRATO.dwg |
| 1391E26./ / / | | NOTE: | |
| 3 | | | |
| 2 | | | |
| 1 | REVISIONE | 27/05/11 | F.I. G.N. M.R. |
| 0 | EMISSIONE | 09/05/11 | F.I. G.N. M.R. |
| REV. | DESCRIZIONE | DATA | REDATTO VERIFICATO APPROVATO |

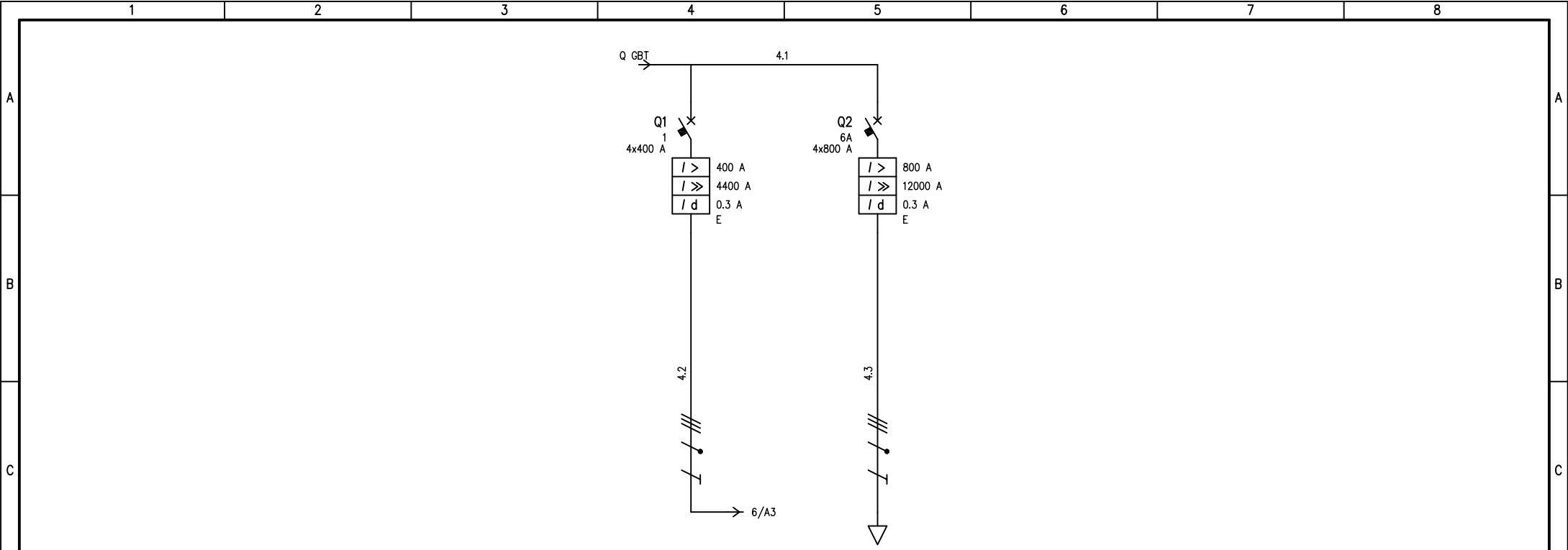
B

CF

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| A | | | | | | | | | A |
| B | | | | | | | | | B |
| C | | | | | | | | | C |
| D | | | | | | | | | D |
| E | | | | | | | | | E |
| F | | | | | | | | | F |

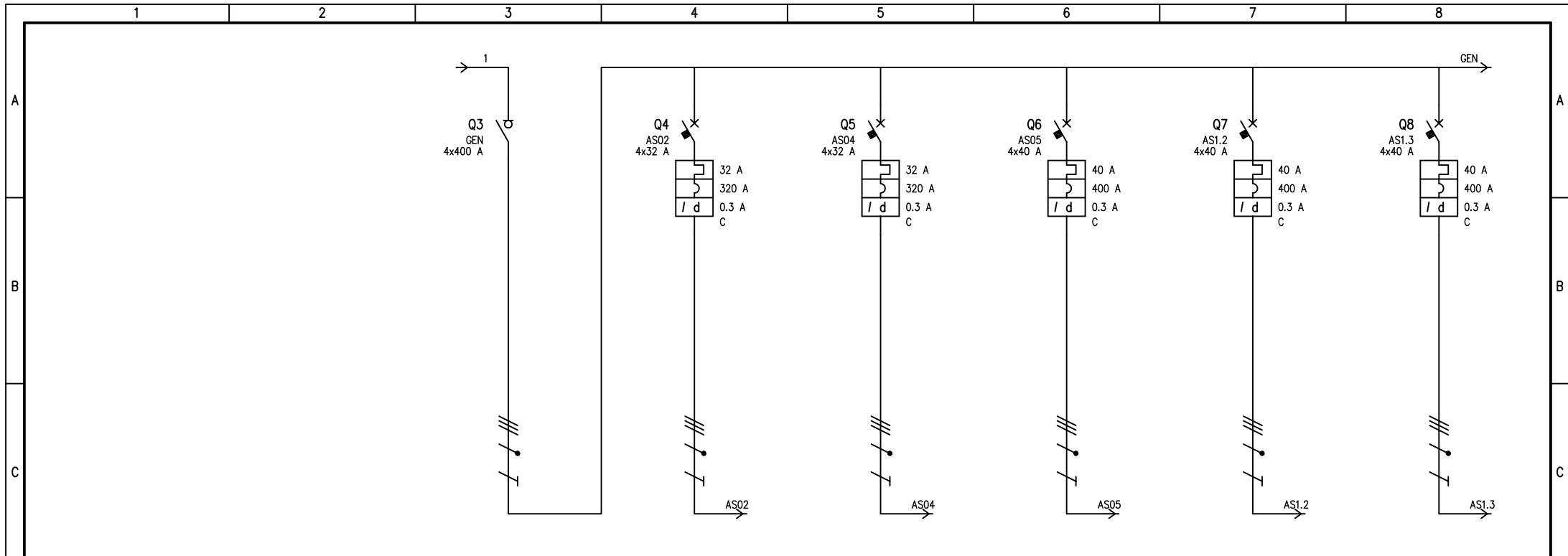
| | |
|------------------------------|---------------|
| Potenza | 208.5 kW |
| Caduta di tensione (Tot. lb) | 1.11 % |
| Corrente di guasto (Ikmax) | 50 kA |
| Zona | PI |
| Quadro | Q Generale BT |

| | | | | | | | | | | | | | |
|------|----------|------------|-------|--------|------------|-----------------------|-----------|----------|--------------------|-------------------------|--|-----------------|---|
| | | | | DATA | 09/05/2011 | POLITECNICO DI MILANO | | | QUADRO GENERALE BT | 138-IE-26-SCHEMI_QUADRI | | | |
| | | | | DISEG. | F.I. | | | | NUOVA CABINA 4 | +PI.Q Generale BT | | | |
| 1 | | 27/05/2011 | | VISTO | G.N. | | | | ESISTENTE | | | FOGLIO 3 DI 144 | |
| REV. | MODIFICA | DATA | FIRMA | APPR. | M.R. | SOST. IL: | SOST. DA: | ORIGINE: | | | | SEGUE | |
| 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | 8 |

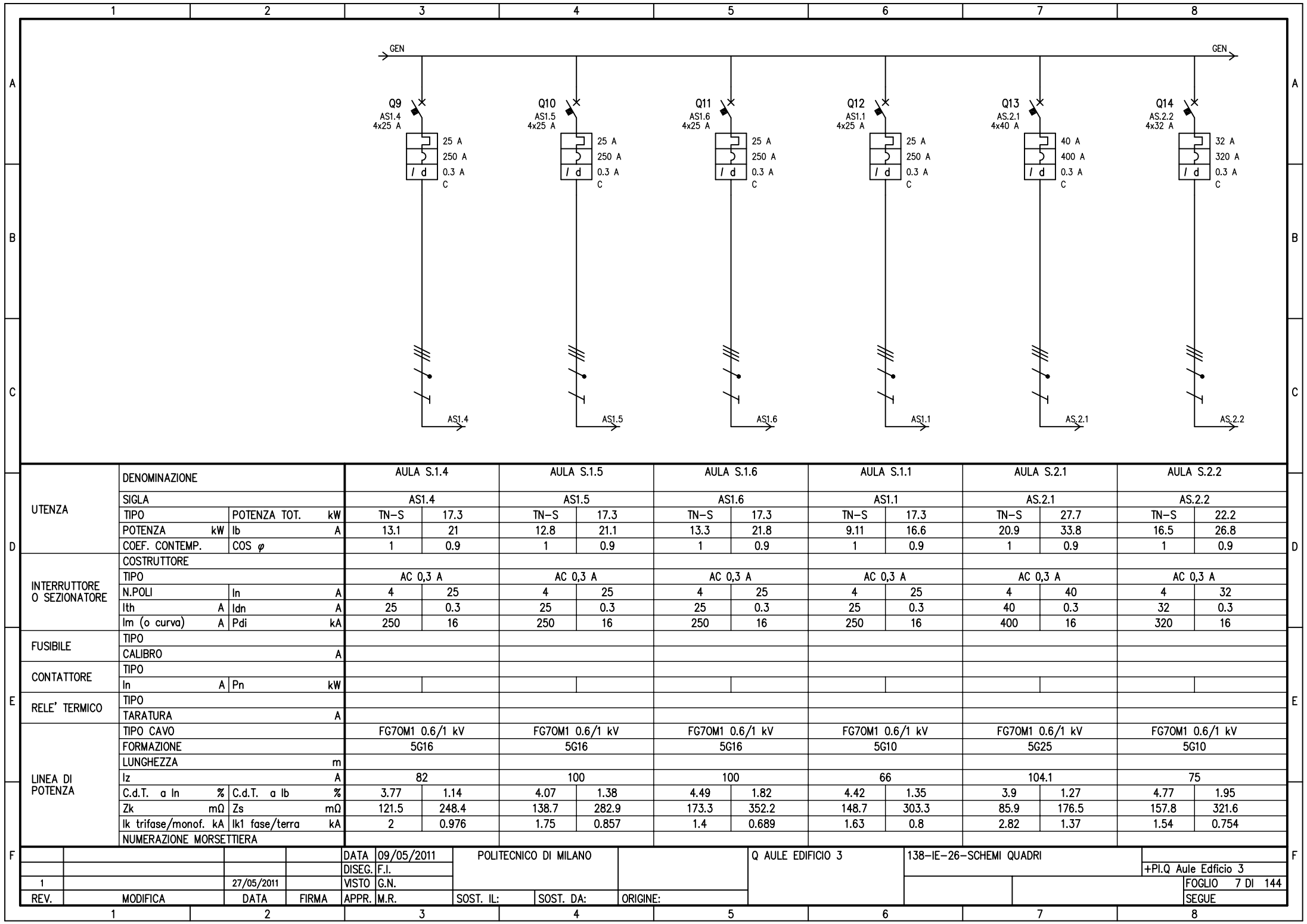


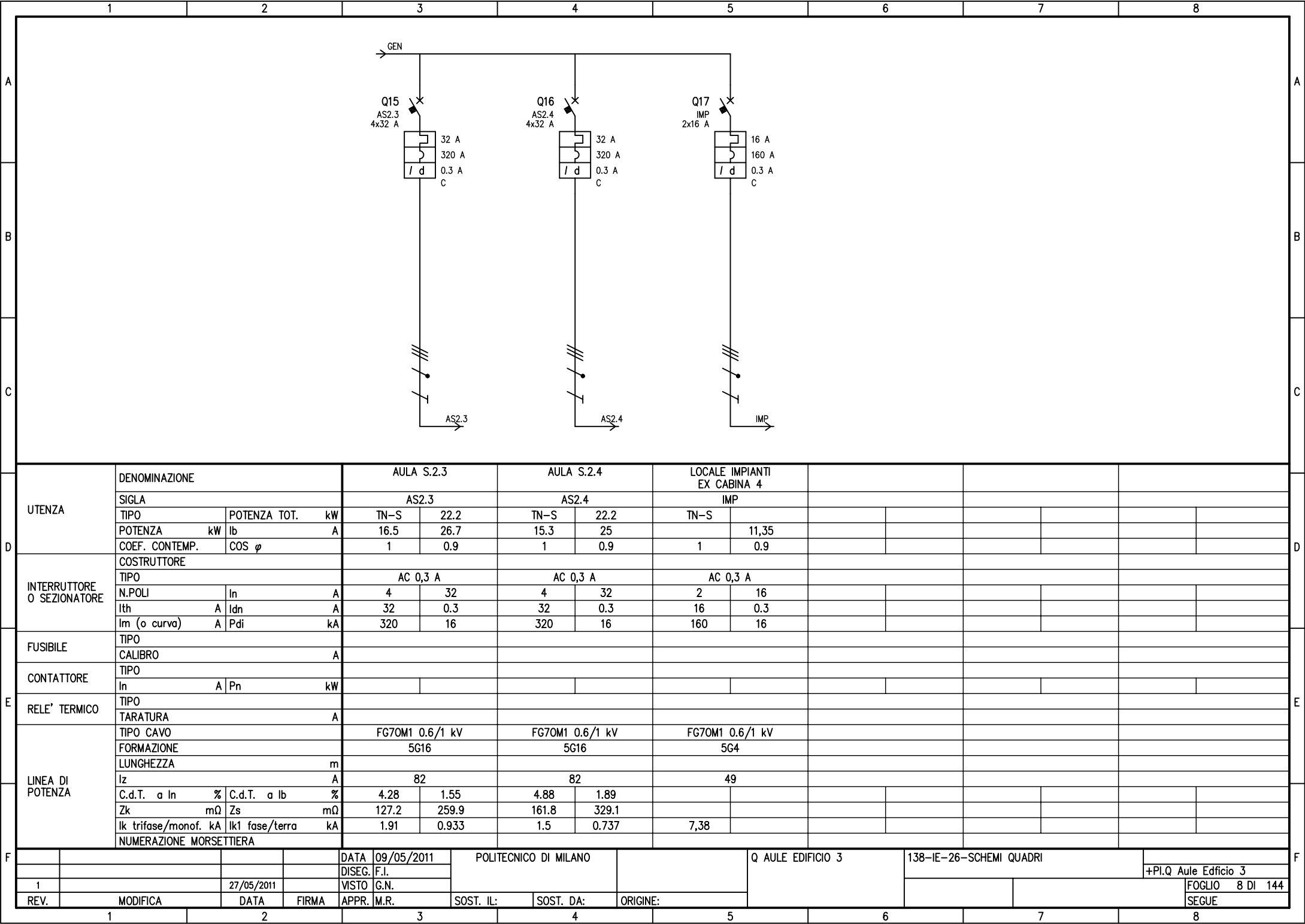
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|-------------------------|-------------------------------|---------------------|-------------------|--------|------------|----------------------------------|---------------------|---|-----------------------|-------------------------|--|-------------------|-----------------|---|--|
| D | UTENZA | DENOMINAZIONE | | | | RISERVA ESISTENTE IN CABINA 4 | | CDZ AULE EDIFICIO 3 ESISTENTE IN CABINA 4 | | | | | | | |
| | | SIGLA | | | | 1E | | 6A | | | | | | | |
| | | TIPO | POTENZA TOT. kW | | | TN-S | 277.1 | TN-S | 554.3 | | | | | | |
| | | POTENZA kW | lb A | | | 208.5 | 336.2 | 374.1 | 600 | | | | | | |
| | COEF. CONTEMP. | COS φ | | | 1 | 0.897 | 1 | 0.9 | | | | | | | |
| | INTERRUTTORE O SEZIONATORE | COSTRUTTORE | | | | SCHNEIDER | | SCHNEIDER | | | | | | | |
| | | TIPO | | | | NS400N+Micrologic 2.3 | | NS800N+Micrologic 5.0A | | | | | | | |
| | | N.POLI | In A | | | 4 | 400 | 4 | 800 | | | | | | |
| | | Ith A | Idn A | | | 400 | VIGI MB | 800 | VIGIREX | | | | | | |
| | Im (o curva) A | Pdi kA | | | 4000 | 50 | 8000 | 50 | | | | | | | |
| E | FUSIBILE | TIPO | | | | | | | | | | | | | |
| | | CALIBRO | | A | | | | | | | | | | | |
| | CONTATTORE | TIPO | | | | | | | | | | | | | |
| | | In A | Pn kW | | | | | | | | | | | | |
| | RELE' TERMICO | TIPO | | | | | | | | | | | | | |
| | | TARATURA | | A | | | | | | | | | | | |
| | F | LINEA DI POTENZA | TIPO CAVO | | | | FG7R 0.6/1 kV | | FG7R 0.6/1 kV | | | | | | |
| | | | FORMAZIONE | | | | 3x(1x185)+1x95+1G95 | | 3x(1x400)+1x240+1G240 | | | | | | |
| LUNGHEZZA | | | m | | | | | | | | | | | | |
| Iz A | | | | | 878.2 | | 878.2 | | | | | | | | |
| C.d.T. a In % | | | C.d.T. a Ib % | | | 1.32 | 1.11 | 2.59 | 1.92 | | | | | | |
| Zk mΩ | | | Zs mΩ | | | 13.4 | 20.5 | 13.4 | 20.5 | | | | | | |
| Ik trifase/monof. kA | | | Ik1 fase/terra kA | | | 18.1 | 11.8 | 18.1 | 11.8 | | | | | | |
| NUMERAZIONE MORSETTIERA | | | | | | | | | | | | | | | |
| | | | | DATA | 09/05/2011 | POLITECNICO DI MILANO | | QUADRO GENERALE BT NUOVA CABINA 4 ESISTENTE | | 138-IE-26-SCHEMI_QUADRI | | +Pl.Q Generale BT | | | |
| | | | | DISEG. | F.I. | | | | | | | | | | |
| 1 | | | 27/05/2011 | | VISTO | G.N. | | | | | | | FOGLIO 4 DI 144 | | |
| REV. | MODIFICA | | DATA | FIRMA | APPR. | M.R. | SOST. IL: | SOST. DA: | ORIGINE: | | | | SEGUE | | |
| 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | |

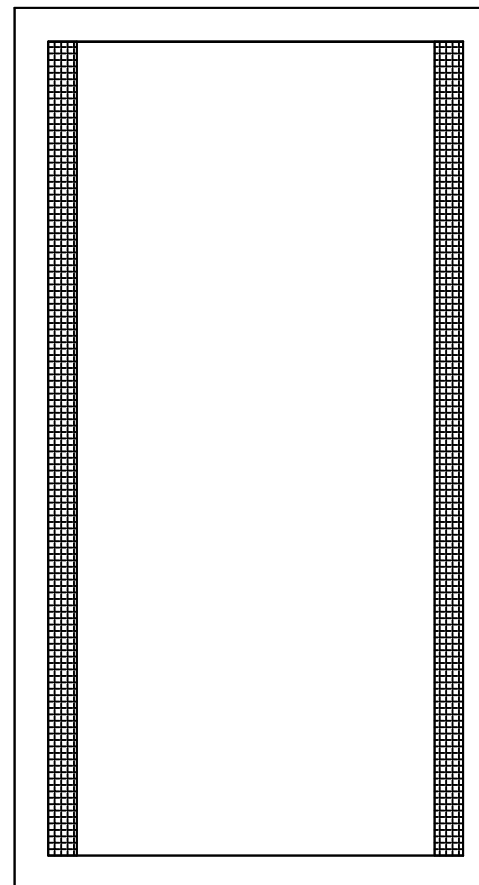
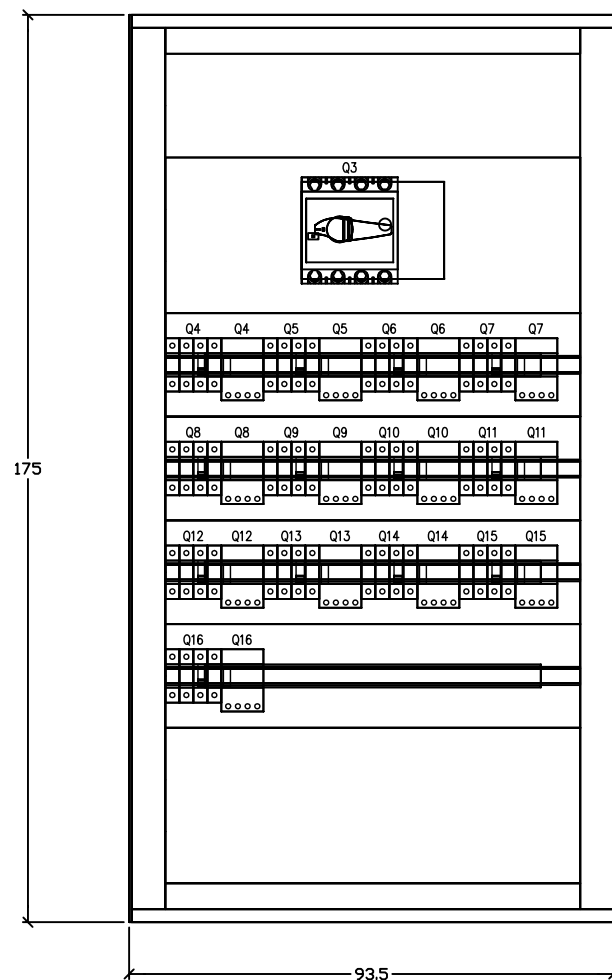
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|---|------------------------------|----------|-------------------|--------|------------|-----------------------|-----------|-----------|-------------------|-------------------------|-----------------------|-------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| A | | | | | | | | | A | | | |
| B | Potenza | | 206.4 kW | | | | | | | | | |
| | Caduta di tensione (Tot. Ib) | | 2.01 % | | | | | | | | | |
| | Corrente di guasto (Ikmax) | | 14.8 kA | | | | | | | | | |
| | Zona | | PI | | | | | | | | | |
| | Quadro | | Q Aule Edificio 3 | | | | | | | | | |
| C | | | | | | | | | C | | | |
| D | | | | | | | | | D | | | |
| E | | | | | | | | | E | | | |
| F | | | | DATA | 09/05/2011 | POLITECNICO DI MILANO | | | Q AULE EDIFICIO 3 | 138-IE-26-SCHEMI QUADRI | | |
| | | | | DISEG. | F.I. | | | | | | +PI.Q Aule Edificio 3 | |
| | 1 | | 27/05/2011 | VISTO | G.N. | | | | | | FOGLIO 5 DI 144 | |
| | REV. | MODIFICA | DATA | FIRMA | APPR. | M.R. | SOST. IL: | SOST. DA: | ORIGINE: | | | SEGUE |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | |



| | | | | | | | | | | | | | | | | | | |
|-------------|-------------------------------|-------------------|--------------|----------------|------------|------------|-----------------------|-------|-----------------|-----------|-------------------|-------|-------------------------|-------|-----------------|-----------------------|-------|--|
| D | UTENZA | DENOMINAZIONE | | | GENERALE | | AULA S.0.2 | | AULA S.0.4 | | AULA S.0.5 | | AULA S.1.2 | | AULA S.1.3 | | | |
| | | SIGLA | | | GEN | | AS02 | | AS04 | | AS05 | | AS1.2 | | AS1.3 | | | |
| | | TIPO | POTENZA TOT. | kW | TN-S | 277.1 | TN-S | 22.2 | TN-S | 22.2 | TN-S | 27.7 | TN-S | 27.7 | TN-S | 27.7 | | |
| | | POTENZA | kW | lb | A | 206.4 | 332.6 | 13.5 | 26.4 | 15.4 | 25 | 20.8 | 33.6 | 20 | 32.4 | 19.2 | 31 | |
| | | COEF. CONTEMP. | COS φ | | 1 | 0.897 | 1 | 0.851 | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 | | |
| | INTERRUTTORE O SEZIONATORE | COSTRUTTORE | | | | | | | | | | | | | | | | |
| | | TIPO | | | | | AC 0,3 A | | AC 0,3 A | | AC 0,3 A | | AC 0,3 A | | AC 0,3 A | | | |
| | | N.POLI | In | A | 4 | 400 | 4 | 32 | 4 | 32 | 4 | 40 | 4 | 40 | 4 | 40 | | |
| | | Ith | A | Idn | A | | | 32 | 0.3 | 32 | 0.3 | 40 | 0.3 | 40 | 0.3 | 40 | 0.3 | |
| | | Im (o curva) | A | Pdi | kA | | 20 | 320 | 16 | 320 | 16 | 400 | 16 | 400 | 16 | 400 | 16 | |
| E | FUSIBILE | TIPO | | | | | | | | | | | | | | | | |
| | | CALIBRO | | | A | | | | | | | | | | | | | |
| | CONTATTORE | TIPO | | | | | | | | | | | | | | | | |
| | | In | A | Pn | kW | | | | | | | | | | | | | |
| | RELE' TERMICO | TIPO | | | | | | | | | | | | | | | | |
| | | TARATURA | | | A | | | | | | | | | | | | | |
| | LINEA DI POTENZA | TIPO CAVO | | | | | FG70M1 0.6/1 kV | | FG70M1 0.6/1 kV | | FG70M1 0.6/1 kV | | FG70M1 0.6/1 kV | | FG70M1 0.6/1 kV | | | |
| | | FORMAZIONE | | | | | 5G16 | | 5G16 | | 5G25 | | 5G25 | | 5G25 | | | |
| LUNGHEZZA | | | m | | | | | | | | | | | | | | | |
| Iz | | | A | | 75.8 | | 82 | | 104.1 | | 127 | | 127 | | | | | |
| C.d.T. a In | | % | C.d.T. a lb | % | 2.4 | | 4.75 | 1.66 | 4.09 | 1.32 | 3.97 | 1.32 | 3.45 | 0.851 | 3.52 | 0.863 | | |
| Zk | | mΩ | Zs | mΩ | 16.4 | 32.8 | 130.7 | 266.8 | 115.7 | 236.8 | 89.5 | 183.8 | 64.1 | 161.6 | 67.7 | 139.9 | | |
| | | Ik trifase/monof. | kA | Ik1 fase/terra | kA | 14.8 | 7.38 | 1.86 | 0.909 | 2.1 | 1.02 | 2.71 | 1.32 | 3.78 | 1.5 | 3.58 | 1.73 | |
| | NUMERAZIONE MORSETTIERA | | | | | | | | | | | | | | | | | |
| F | | | | | DATA | 09/05/2011 | POLITECNICO DI MILANO | | | | Q AULE EDIFICIO 3 | | 138-IE-26-SCHEMI QUADRI | | | | | |
| | | | | | DISEG. | F.I. | | | | | | | | | | +Pl.Q Aule Edificio 3 | | |
| | 1 | | | | 27/05/2011 | | VISTO | G.N. | | | | | | | | FOGLIO 6 DI 144 | | |
| | REV. | MODIFICA | | | DATA | FIRMA | APPR. | M.R. | SOST. IL: | SOST. DA: | ORIGINE: | | | | | | SEGUE | |
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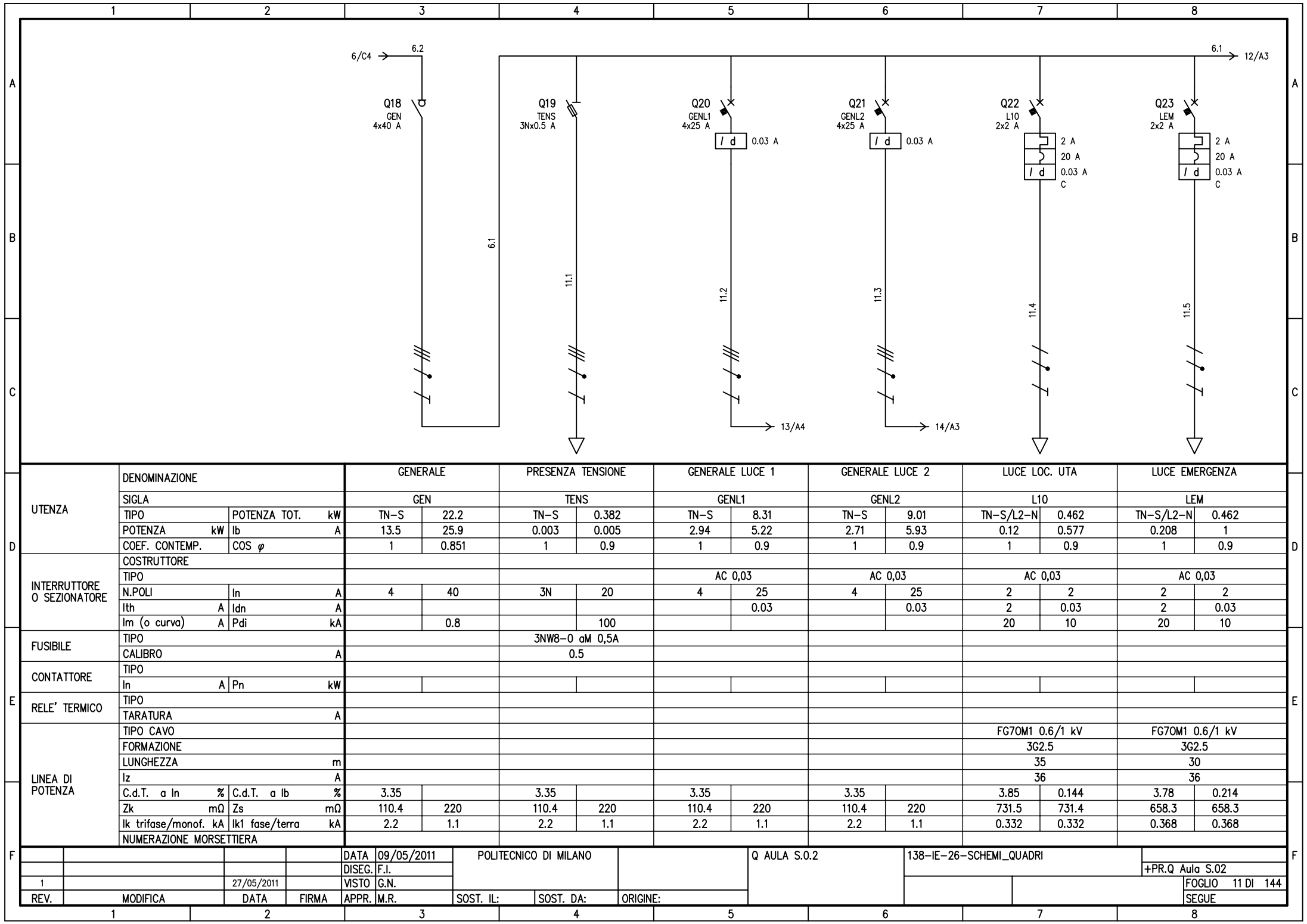


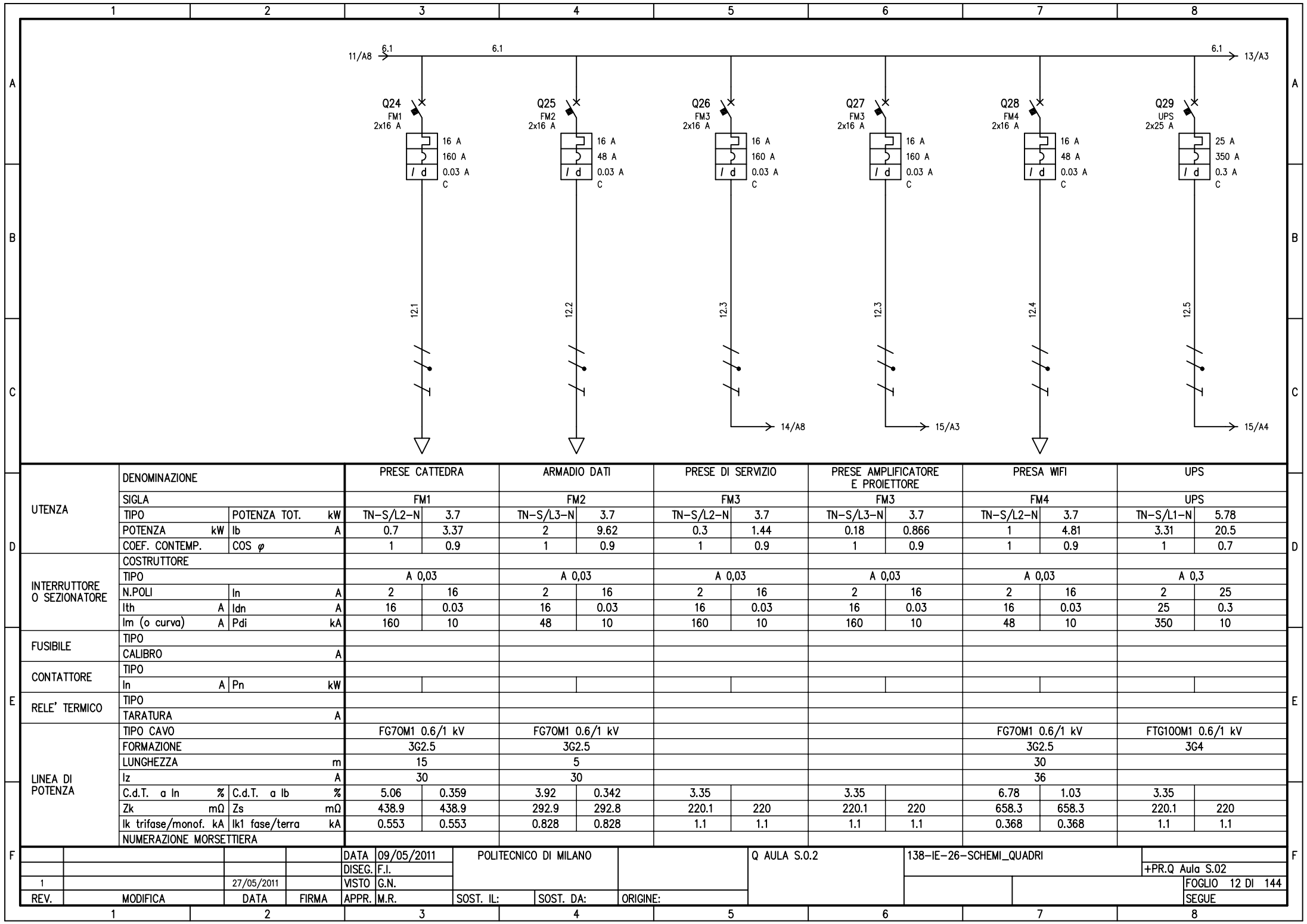


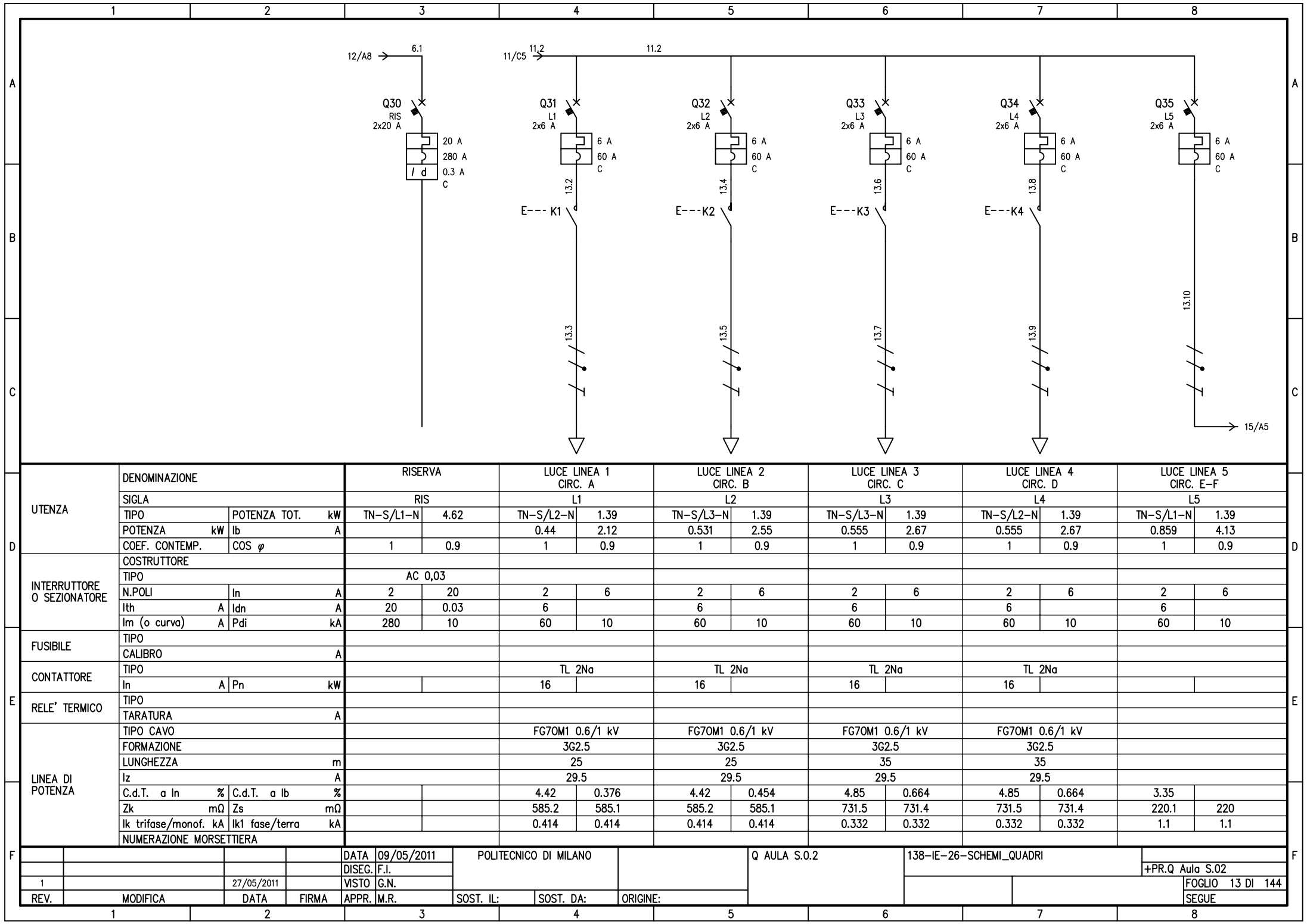


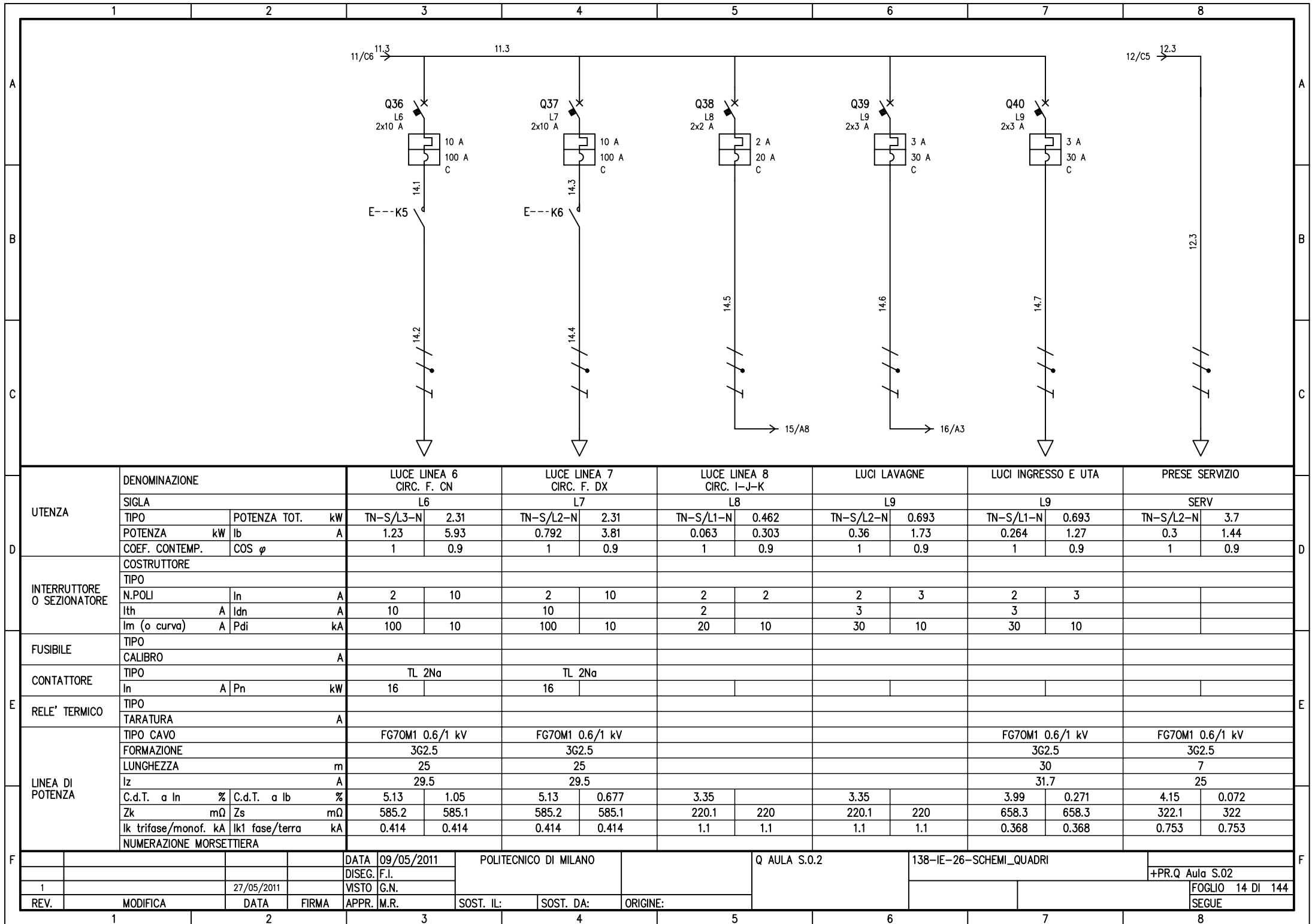
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|------|----------|------------|-------|--------|------------|-----------------------|-----------|----------|-------------------|-------------------------|--------------------------|
| | | | | DATA | 09/05/2011 | POLITECNICO DI MILANO | | | Q AULE EDIFICIO 3 | 138-IE-26-SCHEMI_QUADRI | |
| | | | | DISEG. | F.I. | | | | | | |
| 1 | | 27/05/2011 | | VISTO | G.N. | | | | | | |
| REV. | MODIFICA | DATA | FIRMA | APPR. | M.R. | SOST. IL: | SOST. DA: | ORIGINE: | | | FOGLIO 9 DI 144 SEGUE |

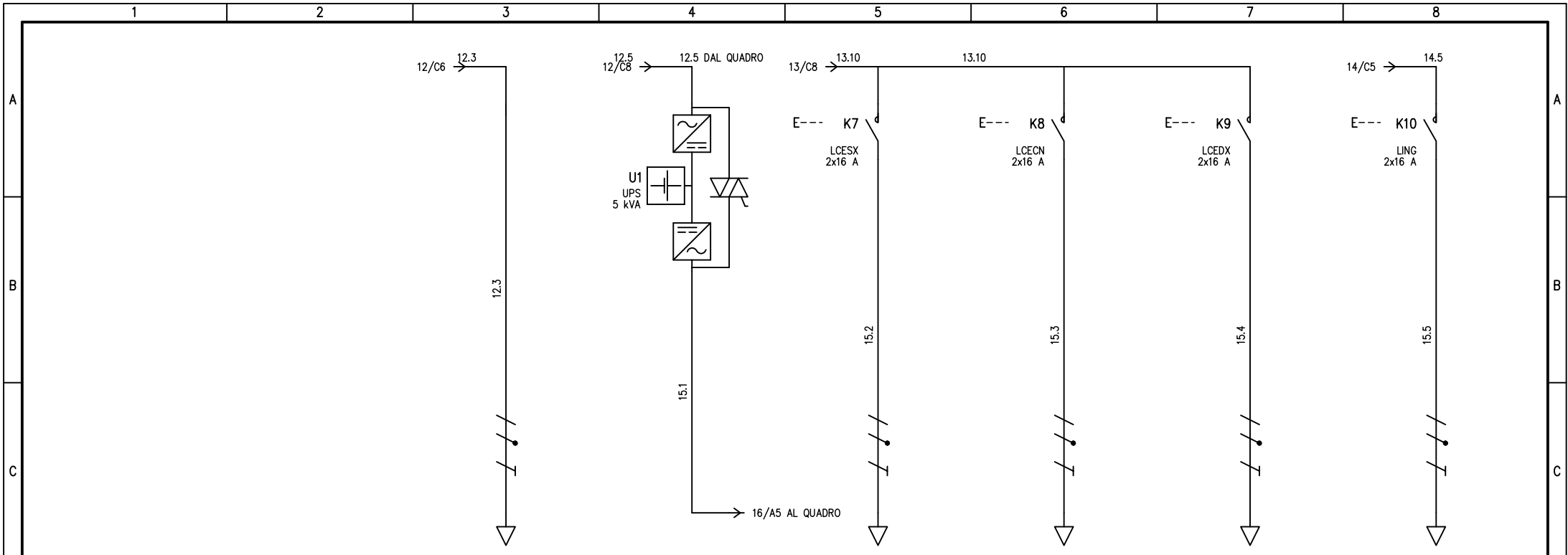
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|---|------------------------------|----------|-------------|--------|------------|-----------------------|-----------|-----------|--------------|-------------------------|------------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | |
| A | | | | | | | | | A | | |
| B | Potenza | | 13.5 kW | | | | | | | | |
| | Caduta di tensione (Tot. Ib) | | 2.55 % | | | | | | | | |
| | Corrente di guasto (Ikmax) | | 2.2 kA | | | | | | | | |
| | Zona | | PR | | | | | | | | |
| | Quadro | | Q Aula S.02 | | | | | | | | |
| C | | | | | | | | | C | | |
| D | | | | | | | | | D | | |
| E | | | | | | | | | E | | |
| F | | | | DATA | 09/05/2011 | POLITECNICO DI MILANO | | | Q AULA S.0.2 | 138-IE-26-SCHEMI_QUADRI | |
| | | | | DISEG. | F.I. | | | | | | +PR.Q Aula S.02 |
| | 1 | | 27/05/2011 | VISTO | G.N. | | | | | | FOGLIO 10 DI 144 |
| | REV. | MODIFICA | DATA | FIRMA | APPR. | M.R. | SOST. IL: | SOST. DA: | ORIGINE: | | |
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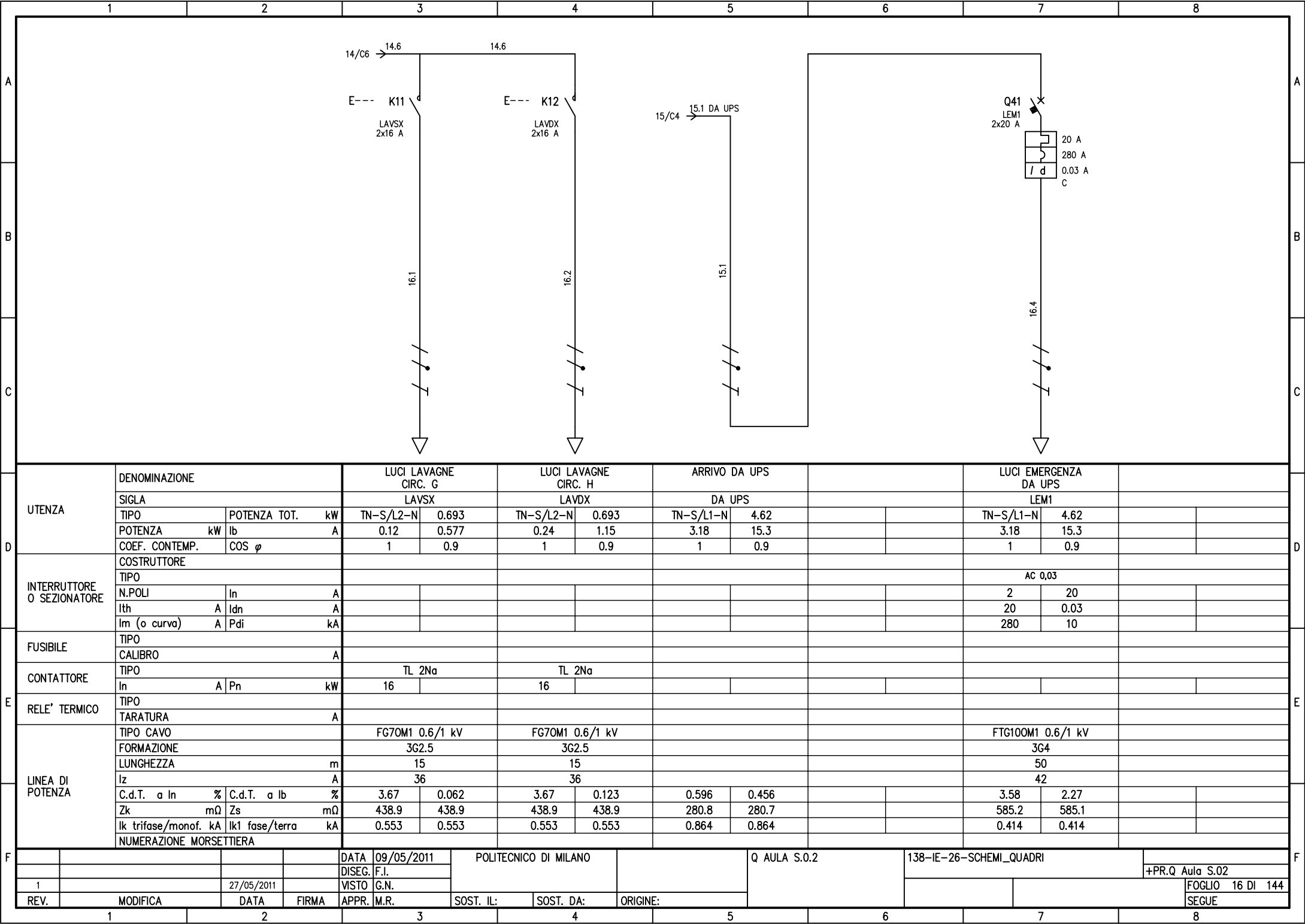






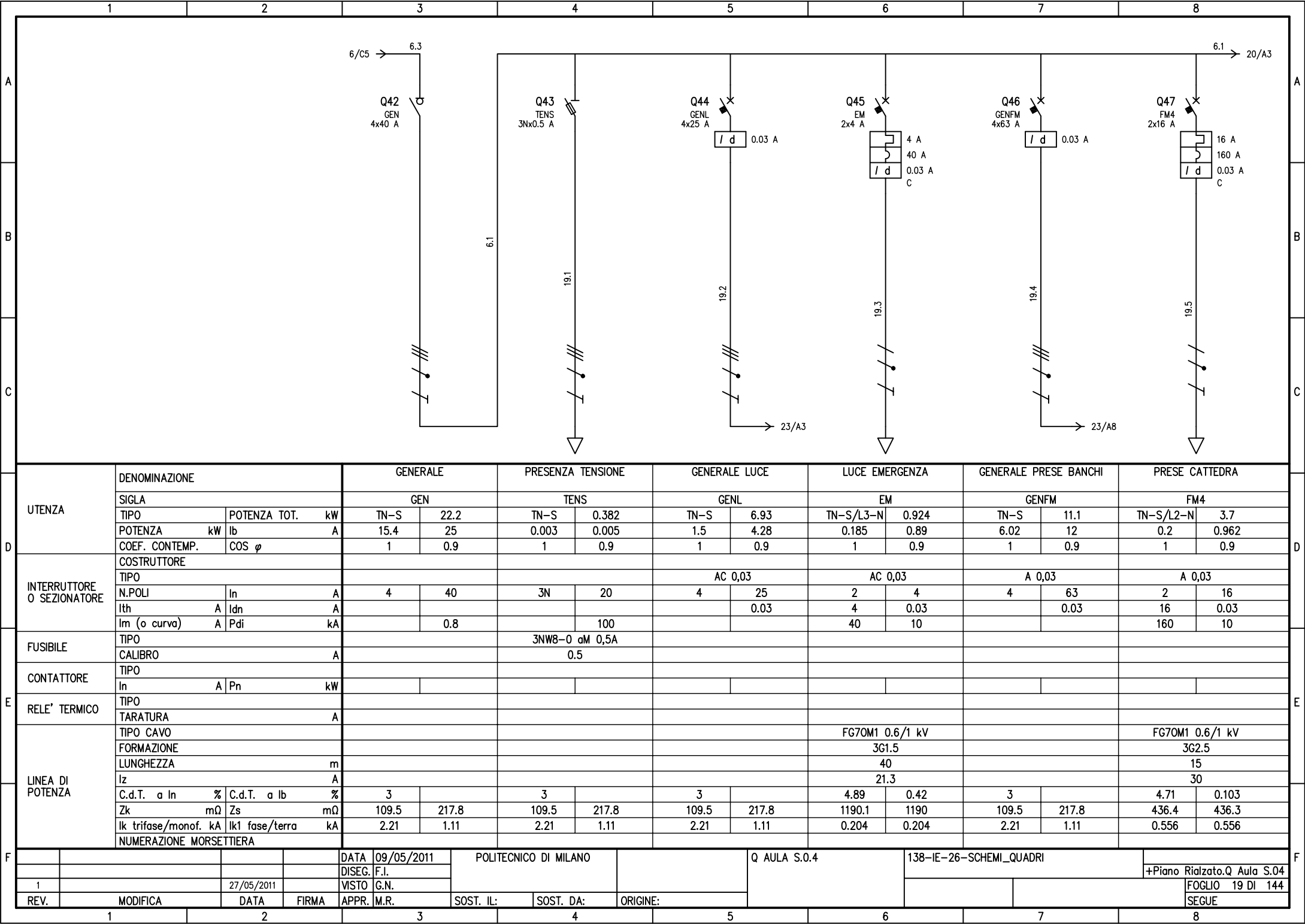


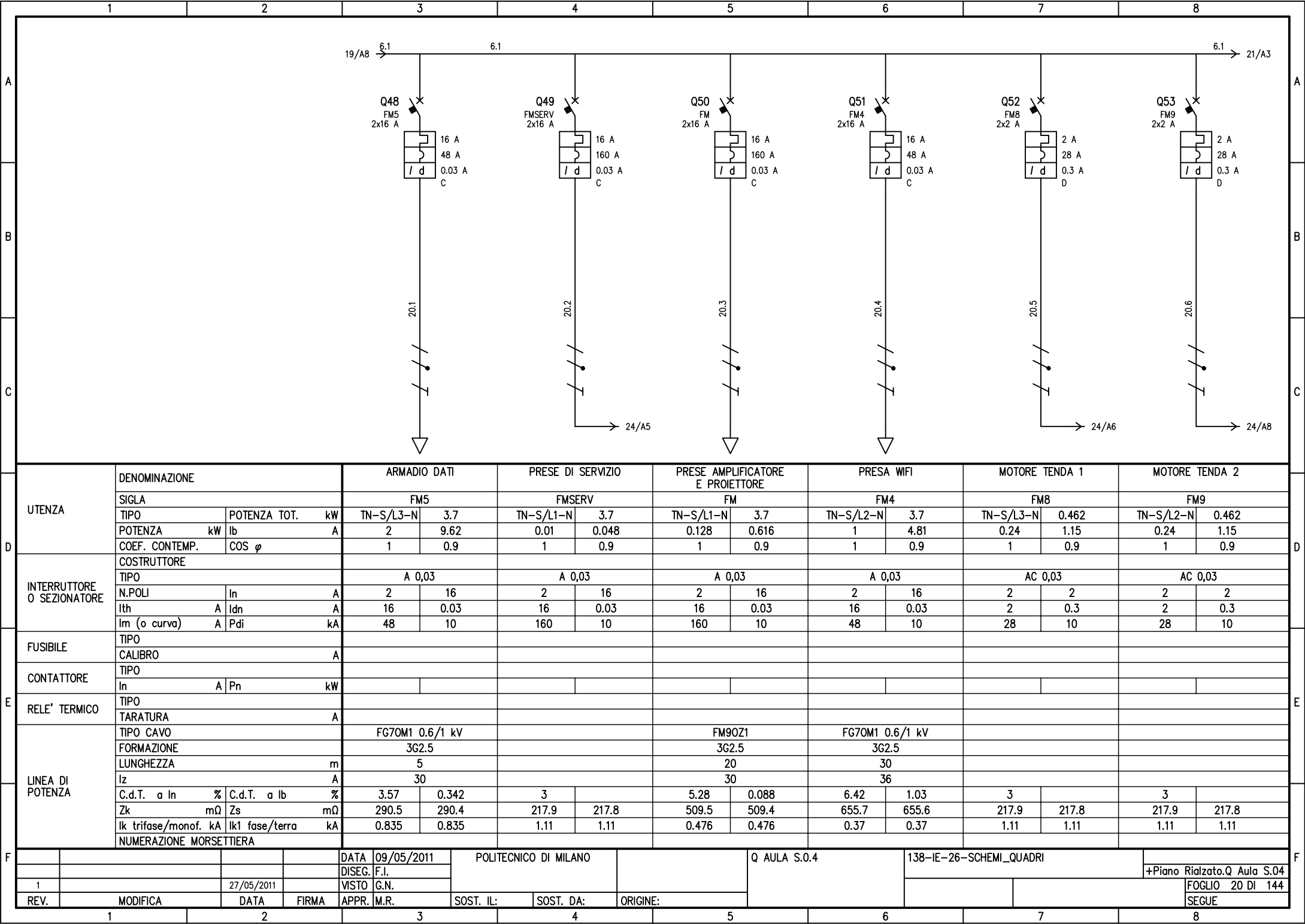
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|-------------|----------------------------|-------------------------|--------------|---------------|---------------------|------------|-----------------------|-------|------------------|--------------|-----------------|-------|-------------------------|-------|-----------------------------|-----------------|------------------|-------|
| D | UTENZA | DENOMINAZIONE | | | PRESA AMPLIFICATORE | | UPS | | CIRC. E SINISTRA | | CIRC. E CENTRO | | CIRC. E DESTRA | | LUCI INGRESSO SCALA CIRC. I | | | |
| | | SIGLA | | | AMPLI | | UPS | | LCESX | | LCECN | | LCEDX | | LING | | | |
| | | TIPO | POTENZA TOT. | kW | TN-S/L3-N | 3.7 | TN-S/L1-N | 5 kVA | TN-S/L1-N | 1.39 | TN-S/L1-N | 1.39 | TN-S/L1-N | 1.39 | TN-S/L1-N | 0.462 | | |
| | | POTENZA | kW | lb | A | 0.18 | 0.866 | 3.31 | 20.5 | 0.36 | 1.73 | 0.282 | 1.36 | 0.217 | 1.04 | 0.063 | 0.303 | |
| | | COEF. CONTEMP. | | COS φ | | 1 | 0.9 | 1 | 0.7 | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 | |
| | INTERRUTTORE O SEZIONATORE | CONSTRUTTORE | | | | | | | | | | | | | | | | |
| | | TIPO | | | | | | | | | | | | | | | | |
| | | N.POLI | In | A | | | 2 | 32 | | | | | | | | | | |
| | | Ith | A | Idn | A | | | 32 | | | | | | | | | | |
| | | Im (o curva) | A | Pdi | kA | | | 320 | | | | | | | | | | |
| E | FUSIBILE | TIPO | | | | | | | | | | | | | | | | |
| | | CALIBRO | | | A | | | | | | | | | | | | | |
| | CONTATTORE | TIPO | | | | | | | TL 2Na | | TL 2Na | | TL 2Na | | TL 2Na | | | |
| | | In | A | Pn | kW | | | | | 16 | | 16 | | 16 | | 16 | | |
| | RELE' TERMICO | TIPO | | | | | | | | | | | | | | | | |
| | | TARATURA | | | A | | | | | | | | | | | | | |
| | LINEA DI POTENZA | TIPO CAVO | | | FG70M1 0.6/1 kV | | FTG100M1 0.6/1 kV | | FG70M1 0.6/1 kV | | FG70M1 0.6/1 kV | | FG70M1 0.6/1 kV | | FG70M1 0.6/1 kV | | | |
| | | FORMAZIONE | | | 3G2.5 | | 3G4 | | 3G2.5 | | 3G2.5 | | 3G2.5 | | 3G2.5 | | | |
| | | LUNGHEZZA | | | m | | 7 | | 25 | | 25 | | 25 | | 25 | | | |
| | | Iz | | | A | | 25 | | 36 | | 36 | | 36 | | 36 | | | |
| C.d.T. a In | | % | C.d.T. a Ib | % | 4.15 | 0.043 | 3.35 | | 4.42 | 0.308 | 4.42 | 0.241 | 4.42 | 0.186 | 3.71 | 0.054 | | |
| Zk | | mΩ | Zs | mΩ | 322.1 | 322 | 220.1 | 220 | 585.2 | 585.1 | 585.2 | 585.1 | 585.2 | 585.1 | 585.2 | 585.1 | | |
| F | | Ik trifase/monof. kA | | | Ik1 fase/terra kA | | 0.753 | | 0.753 | | 1.1 | | 1.1 | | 0.414 | | 0.414 | |
| | | NUMERAZIONE MORSETTIERA | | | | | | | | | | | | | | | | |
| | | | | | DATA | 09/05/2011 | POLITECNICO DI MILANO | | | Q AULA S.0.2 | | | 138-IE-26-SCHEMI_QUADRI | | | | | |
| | | | | | DISEG. | F.I. | | | | | | | | | | +PR.Q Aula S.02 | | |
| | 1 | | | | 27/05/2011 | VISTO | G.N. | | | | | | | | | | FOGLIO 15 DI 144 | |
| | REV. | MODIFICA | | | DATA | FIRMA | APPR. | M.R. | SOST. IL: | SOST. DA: | ORIGINE: | | | | | | | SEGUE |
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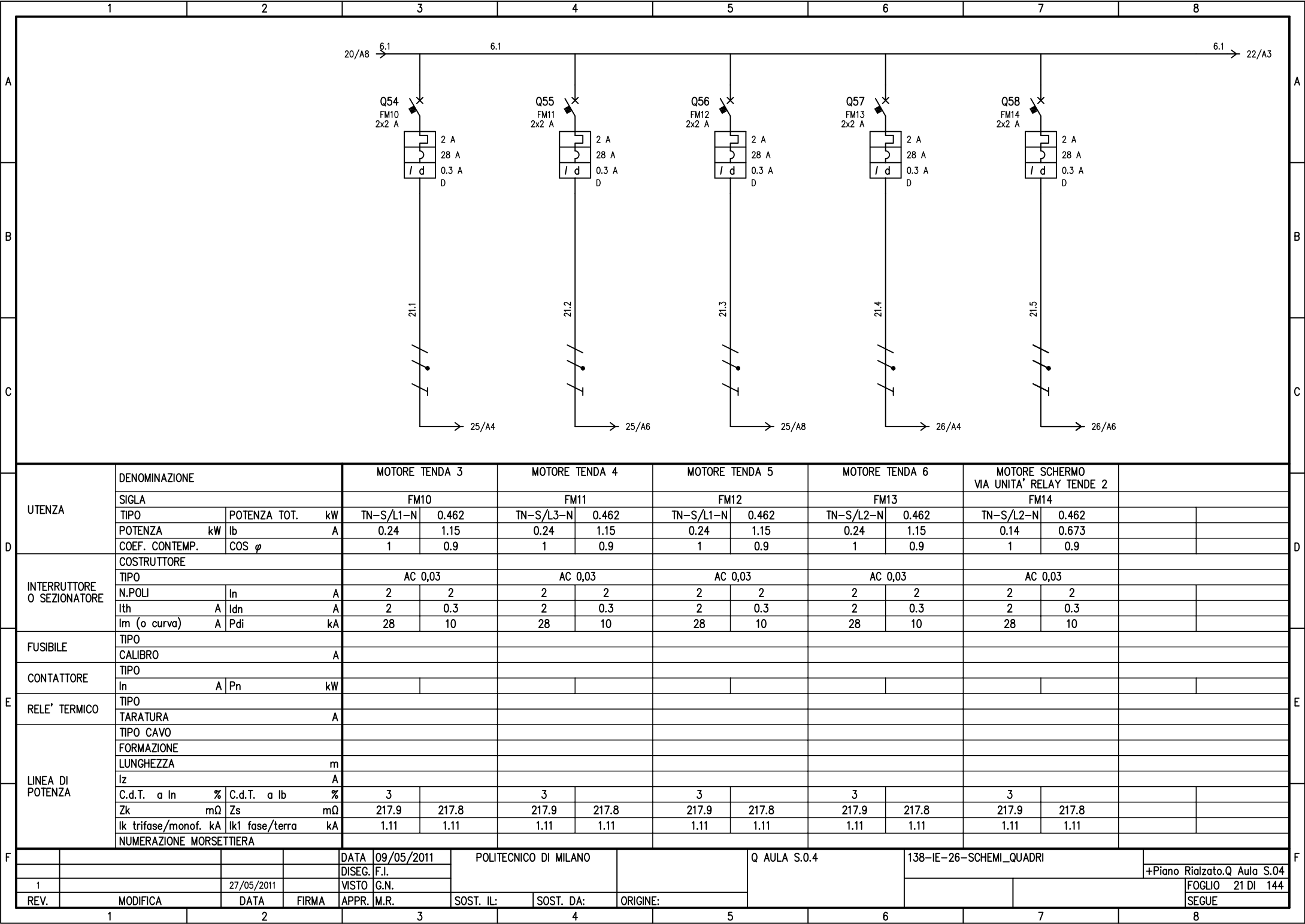


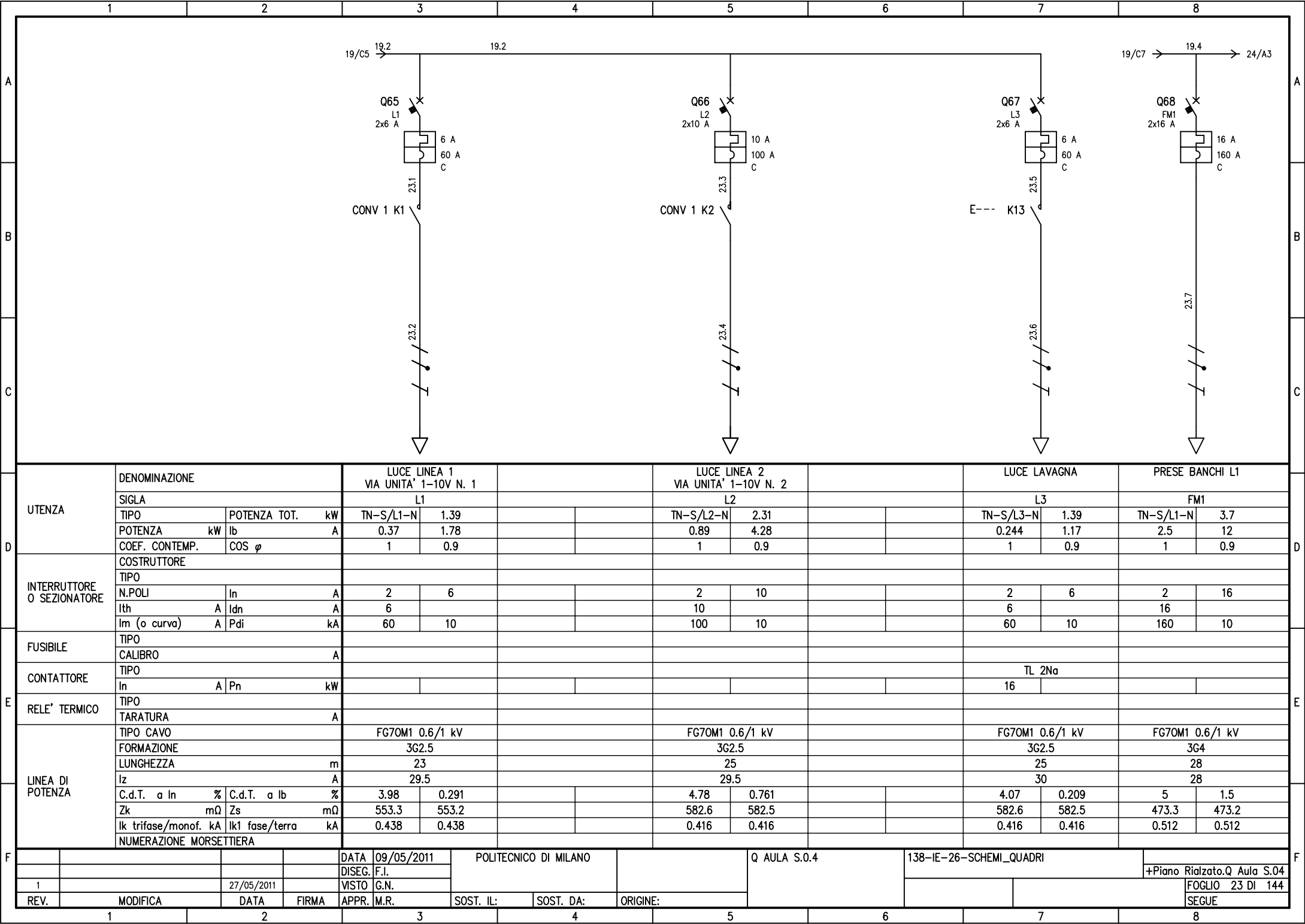
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|-------------------------|----------------------------|----------------|-------------------|------------|----------------------|------------|-----------------------|-----------|---------------|--------------|-------------------------|-----------|-----------------|---------------------------|---|--|
| D | UTENZA | DENOMINAZIONE | | | LUCI LAVAGNE CIRC. G | | LUCI LAVAGNE CIRC. H | | ARRIVO DA UPS | | LUCI EMERGENZA DA UPS | | | | | |
| | | SIGLA | | | LAVSX | | LAVDX | | DA UPS | | LEM1 | | | | | |
| | | TIPO | POTENZA TOT. | kW | TN-S/L2-N | 0.693 | TN-S/L2-N | 0.693 | TN-S/L1-N | 4.62 | | TN-S/L1-N | 4.62 | | | |
| | | POTENZA | kW | lb | A | 0.12 | 0.577 | 0.24 | 1.15 | 3.18 | 15.3 | | 3.18 | 15.3 | | |
| | | COEF. CONTEMP. | COS φ | | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 | | 1 | 0.9 | | | |
| | INTERRUTTORE O SEZIONATORE | COSTRUTTORE | | | | | | | | | | | | | | |
| | | TIPO | | | | | | | | | AC 0,03 | | | | | |
| | | N.POLI | In | A | | | | | | | 2 | 20 | | | | |
| | | Ith | A | Idn | A | | | | | 20 | 0.03 | | | | | |
| | | Im (o curva) | A | Pdi | kA | | | | | 280 | 10 | | | | | |
| E | FUSIBILE | TIPO | | | | | | | | | | | | | | |
| | | CALIBRO | | | A | | | | | | | | | | | |
| | CONTATTORE | TIPO | | | TL 2Na | | TL 2Na | | | | | | | | | |
| | | In | A | Pn | kW | 16 | | 16 | | | | | | | | |
| | RELE' TERMICO | TIPO | | | | | | | | | | | | | | |
| | | TARATURA | | | A | | | | | | | | | | | |
| | LINEA DI POTENZA | TIPO CAVO | | | FG70M1 0.6/1 kV | | FG70M1 0.6/1 kV | | | | FTG100M1 0.6/1 kV | | | | | |
| | | FORMAZIONE | | | 3G2.5 | | 3G2.5 | | | | 3G4 | | | | | |
| | | LUNGHEZZA | | | m | | 15 | | | | 50 | | | | | |
| | | Iz | | | A | | 36 | | | | 42 | | | | | |
| C.d.T. a In | | % | C.d.T. a Ib | % | 3.67 | 0.062 | 3.67 | 0.123 | 0.596 | 0.456 | 3.58 | 2.27 | | | | |
| Zk | | mΩ | Zs | mΩ | 438.9 | 438.9 | 438.9 | 438.9 | 280.8 | 280.7 | 585.2 | 585.1 | | | | |
| Ik trifase/monof. kA | | | Ik1 fase/terra kA | | 0.553 | 0.553 | 0.553 | 0.553 | 0.864 | 0.864 | 0.414 | 0.414 | | | | |
| NUMERAZIONE MORSETTIERA | | | | | | | | | | | | | | | | |
| F | | | | | DATA | 09/05/2011 | POLITECNICO DI MILANO | | | Q AULA S.0.2 | 138-IE-26-SCHEMI_QUADRI | | | | | |
| | | | | | DISEG. F.I. | | | | | | | | +PR.Q Aula S.02 | | | |
| | 1 | | | 27/05/2011 | VISTO G.N. | | | | | | | | | | | |
| | REV. | MODIFICA | DATA | FIRMA | APPR. | M.R. | SOST. IL: | SOST. DA: | ORIGINE: | | | | | FOGLIO 16 DI 144 SEGUE | | |
| 1 | | 2 | | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | |

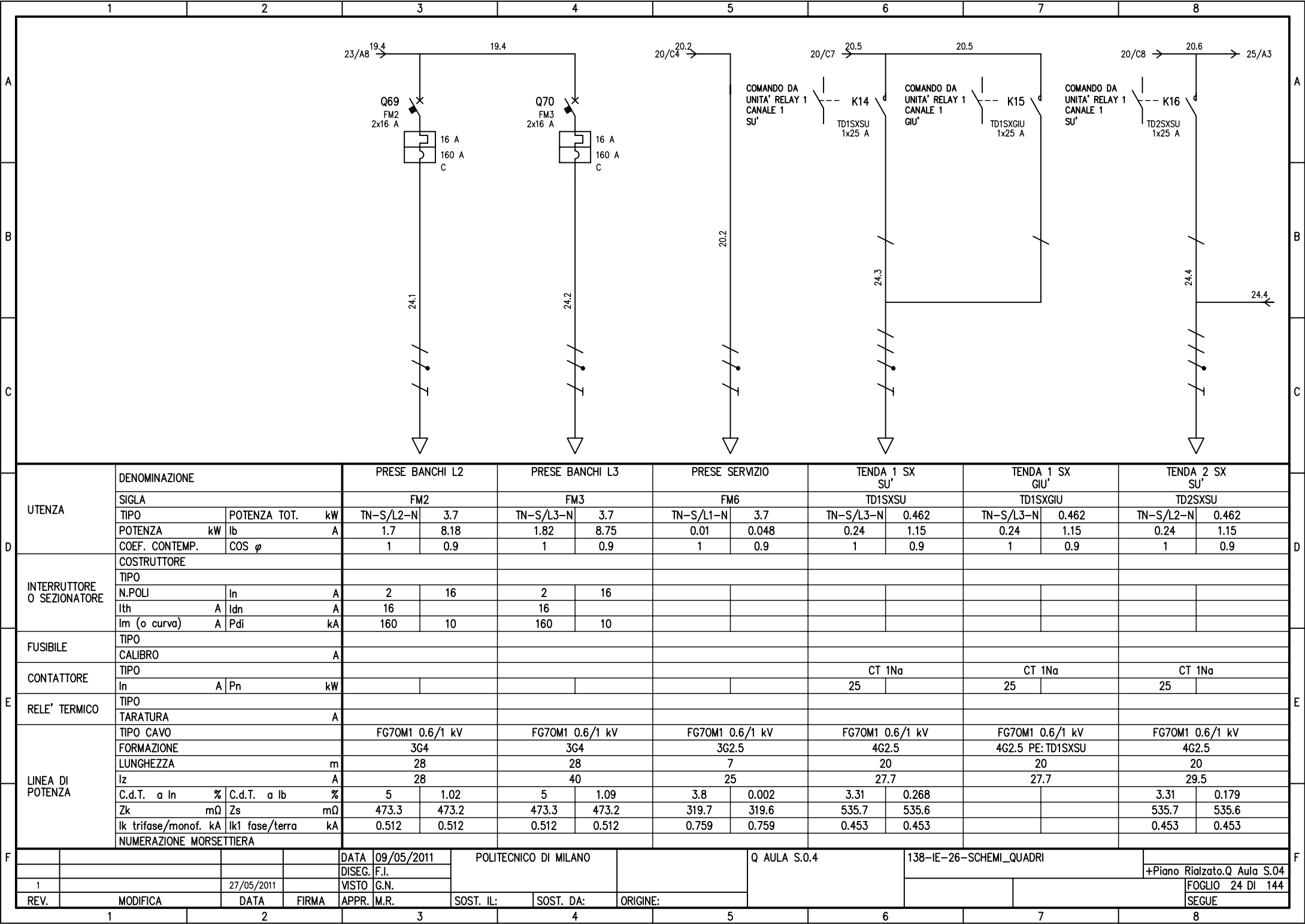
| | | | | | | | | | | | | |
|---|------------------------------|----------|----------------|--------|------------|-----------------------|-----------|-----------|--------------|-------------------------|--|-----------------------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| A | | | | | | | | | A | | | |
| B | Potenza | | 15.4 kW | | | | | | | | | |
| | Caduta di tensione (Tot. Ib) | | 2.4 % | | | | | | | | | |
| | Corrente di guasto (Ikmax) | | 2.21 kA | | | | | | | | | |
| | Zona | | Piano Rialzato | | | | | | | | | |
| | Quadro | | Q Aula S.04 | | | | | | | | | |
| C | | | | | | | | | C | | | |
| D | | | | | | | | | D | | | |
| E | | | | | | | | | E | | | |
| F | | | | DATA | 09/05/2011 | POLITECNICO DI MILANO | | | Q AULA S.0.4 | 138-IE-26-SCHEMI_QUADRI | | |
| | | | | DISEG. | F.I. | | | | | | | +Piano Rialzato.Q Aula S.04 |
| | 1 | | 27/05/2011 | VISTO | G.N. | | | | | | | FOGLIO 18 DI 144 |
| | REV. | MODIFICA | DATA | FIRMA | APPR. | M.R. | SOST. IL: | SOST. DA: | ORIGINE: | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |



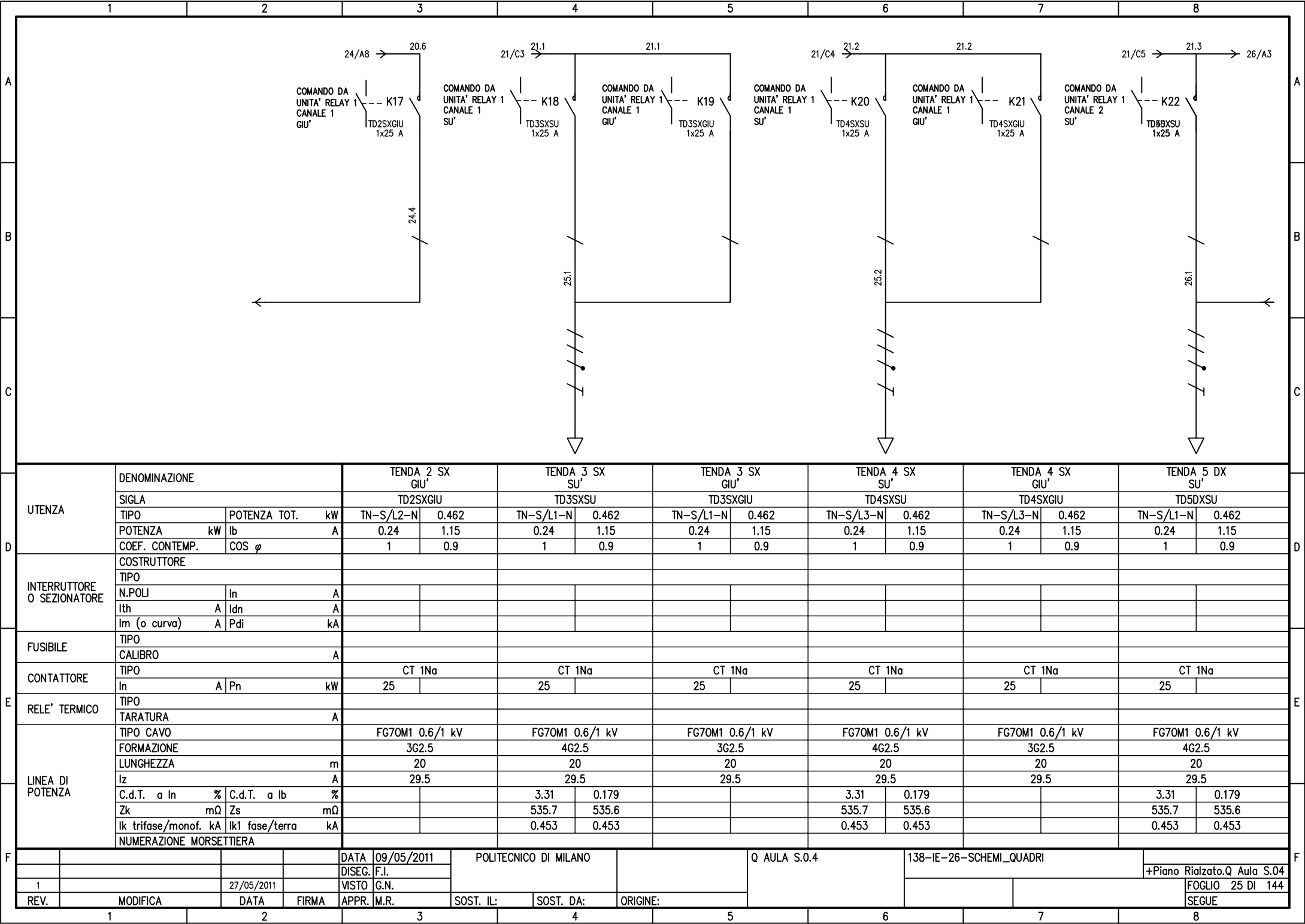


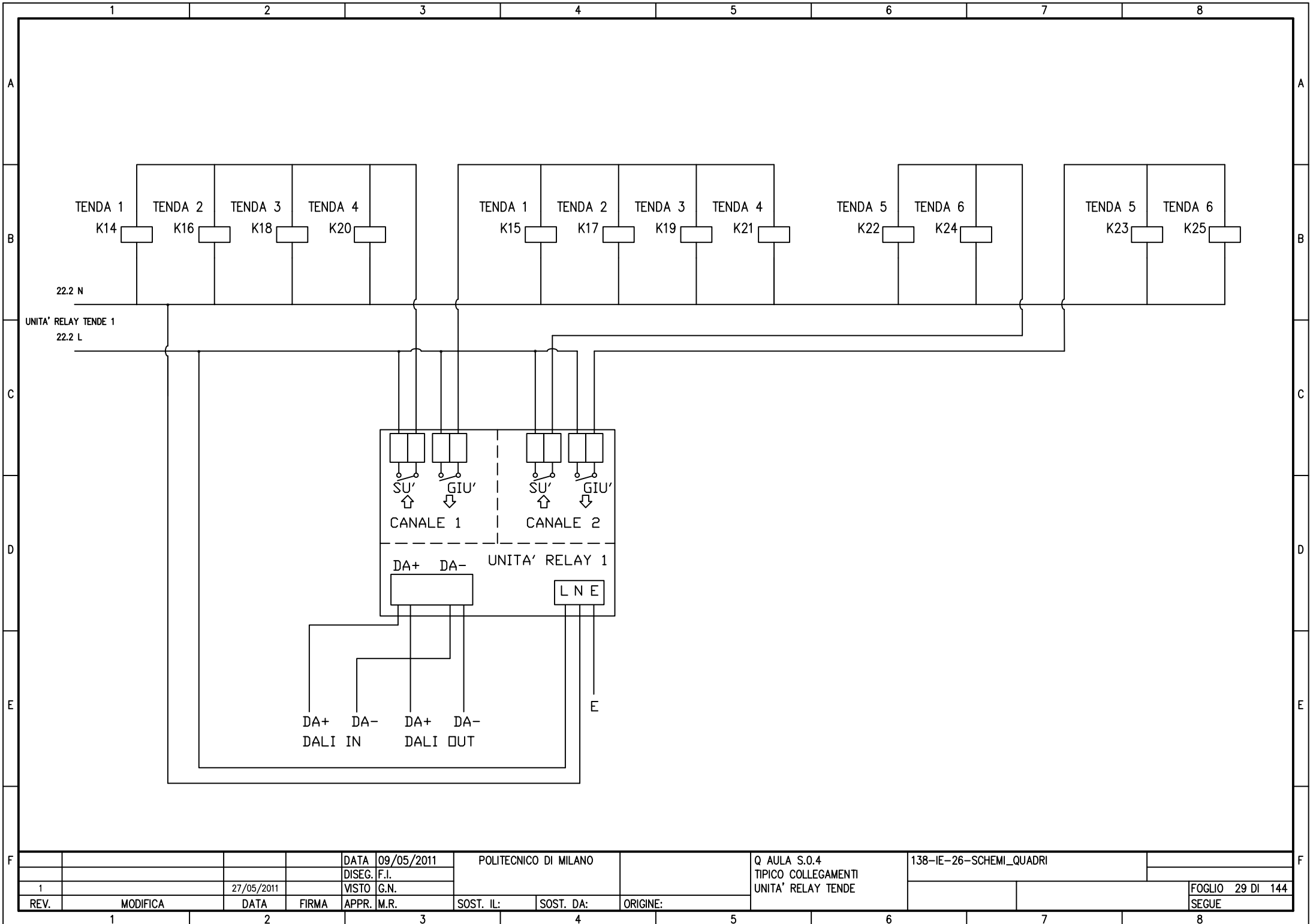


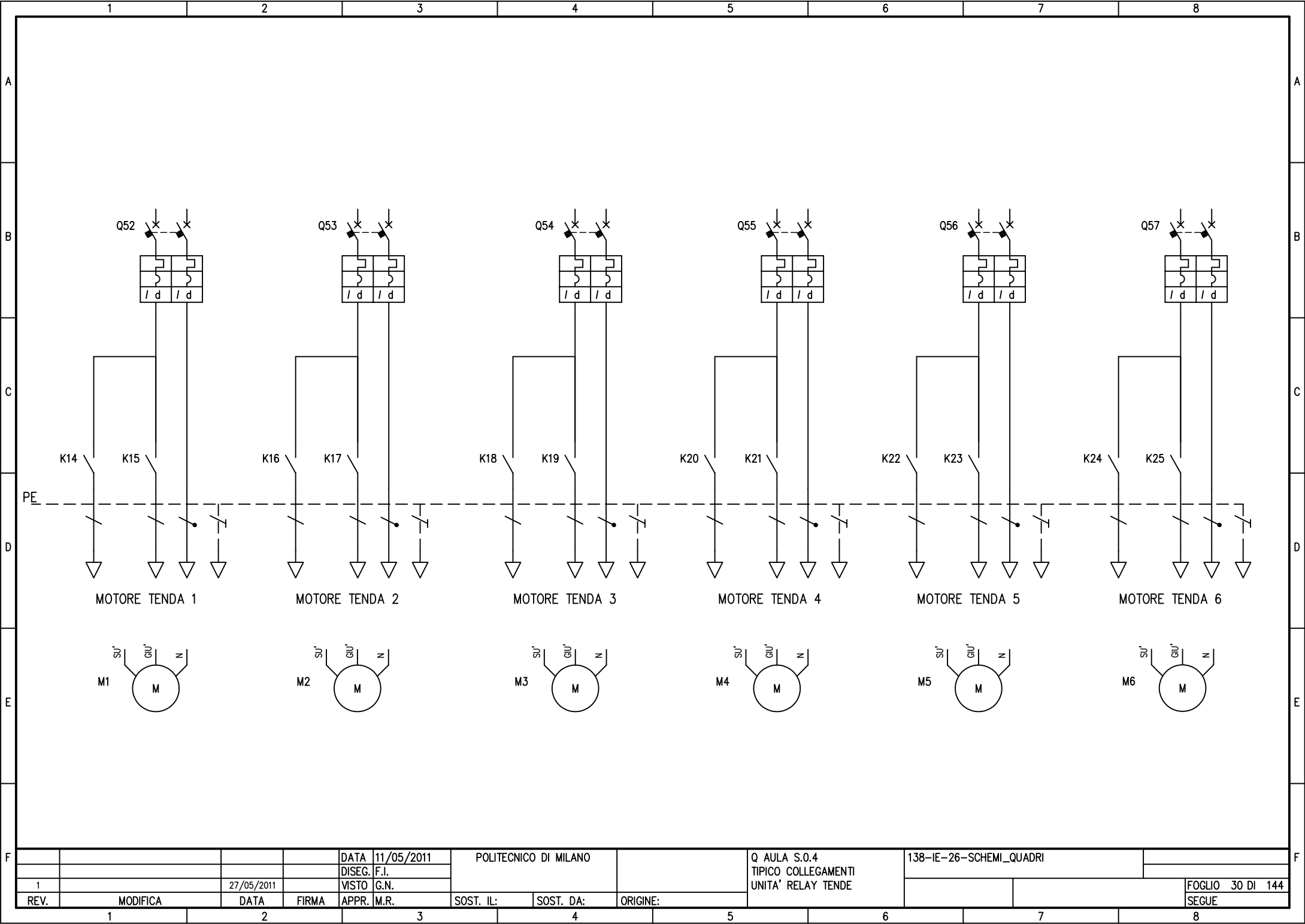




| | | | | | | | | | | | | | | | | | |
|-------------------------|----------------------------|----------------|----------------|-------------|-----------------|-----------------------|-----------------|-----------|-----------------|----------|-------------------------|-------|-------------------|-------|-----------------------------|-------|------|
| D | UTENZA | DENOMINAZIONE | | | PRESE BANCHI L2 | | PRESE BANCHI L3 | | PRESE SERVIZIO | | TENDA 1 SX SU' | | TENDA 1 SX GIU' | | TENDA 2 SX SU' | | |
| | | SIGLA | | | FM2 | | FM3 | | FM6 | | TD1SXSU | | TD1SXGIU | | TD2SXSU | | |
| | | TIPO | POTENZA TOT. | kW | TN-S/L2-N | 3.7 | TN-S/L3-N | 3.7 | TN-S/L1-N | 3.7 | TN-S/L3-N | 0.462 | TN-S/L3-N | 0.462 | TN-S/L2-N | 0.462 | |
| | | POTENZA | kW | lb | A | 1.7 | 8.18 | 1.82 | 8.75 | 0.01 | 0.048 | 0.24 | 1.15 | 0.24 | 1.15 | 0.24 | 1.15 |
| | | COEF. CONTEMP. | COS φ | | | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 |
| | INTERRUTTORE O SEZIONATORE | COSTRUTTORE | | | | | | | | | | | | | | | |
| | | TIPO | | | | | | | | | | | | | | | |
| | | N.POLI | In | A | 2 | 16 | 2 | 16 | | | | | | | | | |
| | | Ith | A | Idn | A | 16 | | 16 | | | | | | | | | |
| | | Im (o curva) | A | Pdi | kA | 160 | 10 | 160 | 10 | | | | | | | | |
| E | FUSIBILE | TIPO | | | | | | | | | | | | | | | |
| | | CALIBRO | | | A | | | | | | | | | | | | |
| | CONTATTORE | TIPO | | | | | | | | | CT 1Na | | CT 1Na | | CT 1Na | | |
| | | In | A | Pn | kW | | | | | | 25 | | 25 | | 25 | | |
| | F | RELE' TERMICO | TIPO | | | | | | | | | | | | | | |
| TARATURA | | | A | | | | | | | | | | | | | | |
| LINEA DI POTENZA | | TIPO CAVO | | | FG70M1 0.6/1 kV | | FG70M1 0.6/1 kV | | FG70M1 0.6/1 kV | | FG70M1 0.6/1 kV | | FG70M1 0.6/1 kV | | FG70M1 0.6/1 kV | | |
| | | FORMAZIONE | | | 3G4 | | 3G4 | | 3G2.5 | | 4G2.5 | | 4G2.5 PE: TD1SXSU | | 4G2.5 | | |
| | | LUNGHEZZA | | | m | | 28 | | 28 | | 7 | | 20 | | 20 | | |
| | | Iz | | | A | | 28 | | 40 | | 25 | | 27.7 | | 29.5 | | |
| | | C.d.T. a In | % | C.d.T. a lb | % | 5 | 1.02 | 5 | 1.09 | 3.8 | 0.002 | 3.31 | 0.268 | | 3.31 | 0.179 | |
| | | Zk | mΩ | Zs | mΩ | 473.3 | 473.2 | 473.3 | 473.2 | 319.7 | 319.6 | 535.7 | 535.6 | | 535.7 | 535.6 | |
| Ik trifase/monof. kA | | | Ik1 fase/terra | | kA | | 0.512 | | 0.512 | | 0.512 | | 0.512 | | 0.453 | | |
| NUMERAZIONE MORSETTIERA | | | | | | | | | | | | | | | | | |
| | | | | DATA | 09/05/2011 | POLITECNICO DI MILANO | | | Q AULA S.O.4 | | 138-IE-26-SCHEMI_QUADRI | | | | | | |
| | | | | | DISEG. F.I. | | | | | | | | | | +Piano Rialzato.Q Aula S.O4 | | |
| 1 | | | 27/05/2011 | | VISTO | G.N. | | | | | | | | | FOGLIO 24 DI 144 | | |
| REV. | MODIFICA | | | DATA | FIRMA | APPR. | M.R. | SOST. IL: | SOST. DA: | ORIGINE: | | | | | SEGUE | | |
| 1 | | 2 | | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | |

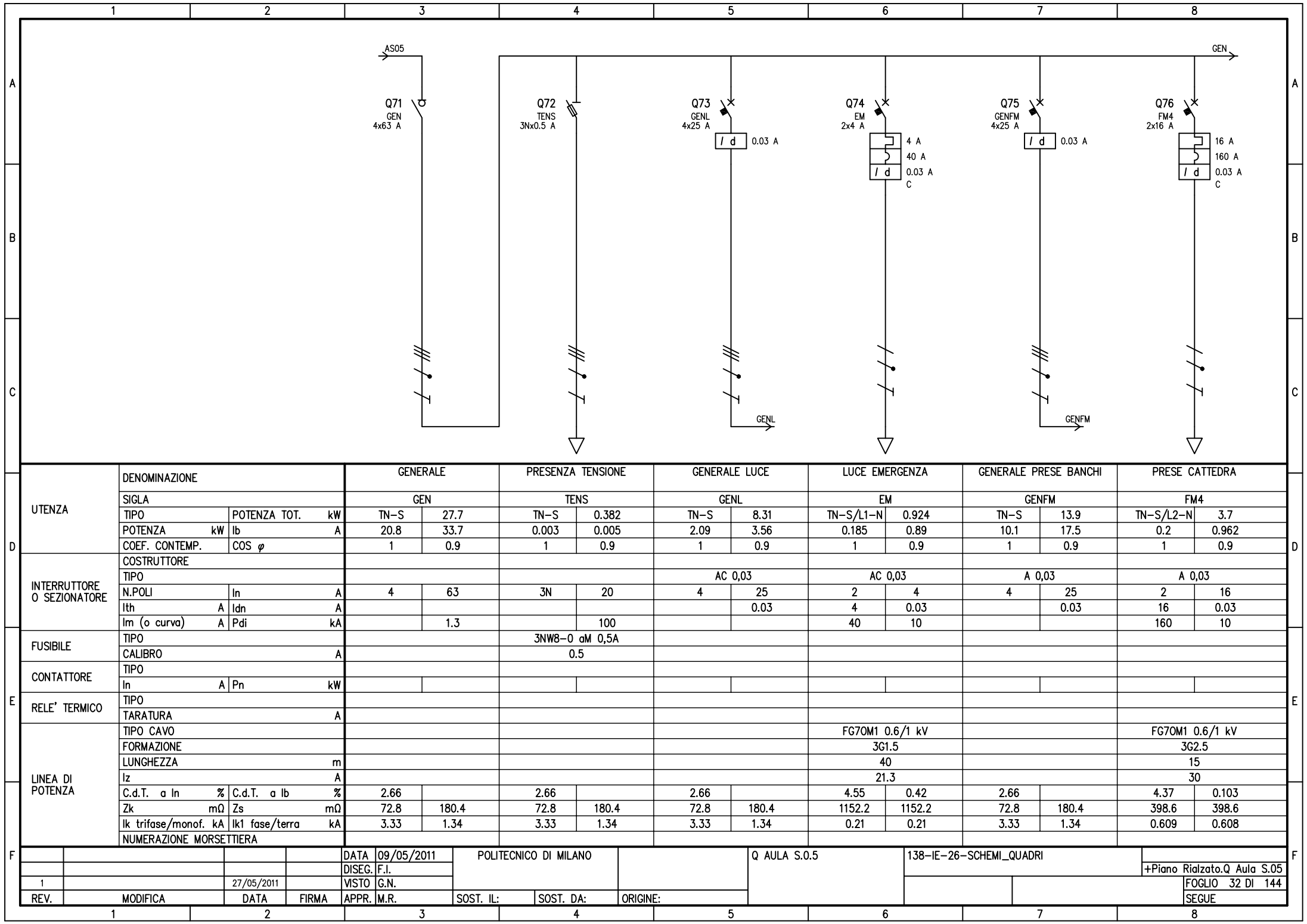


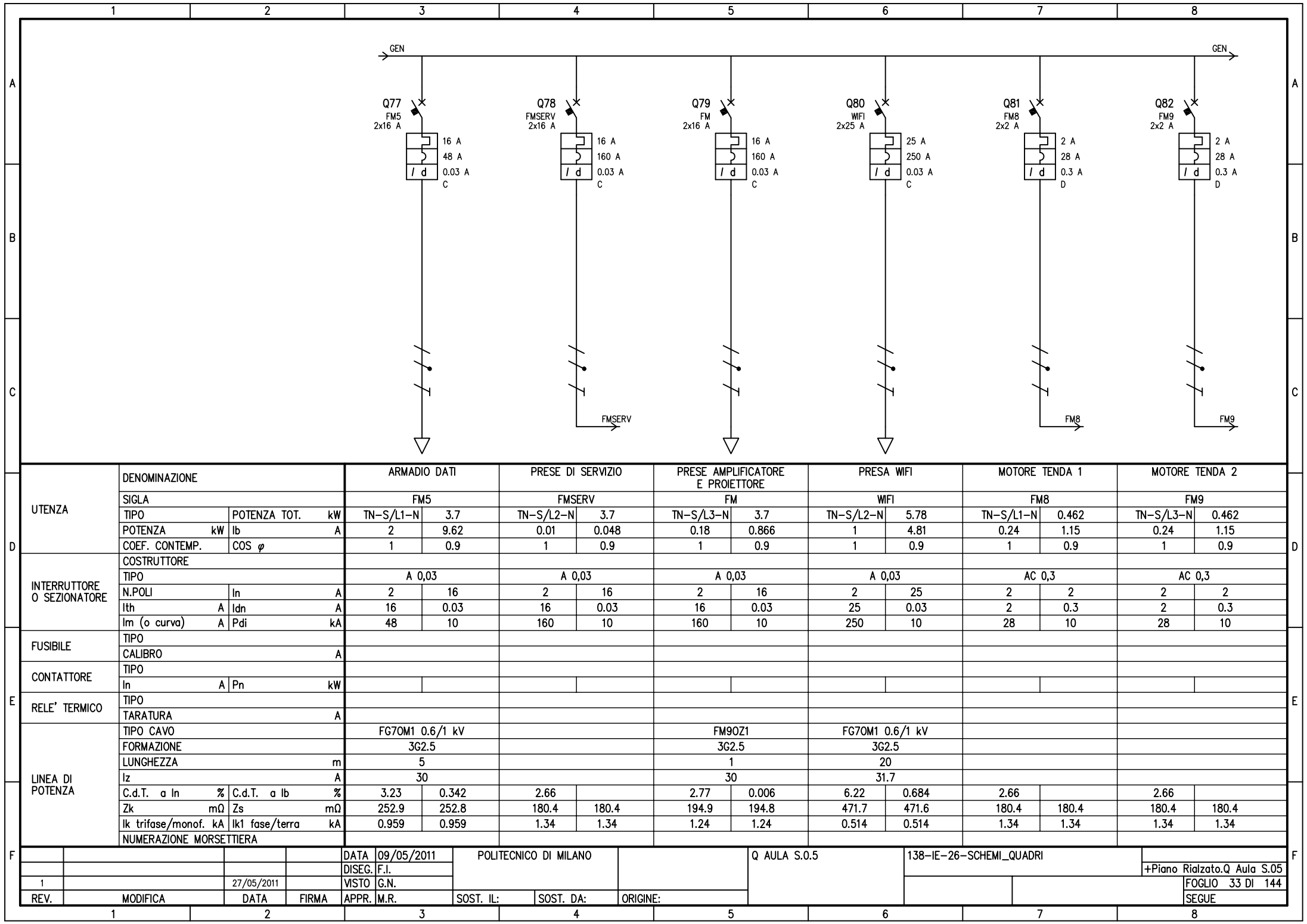


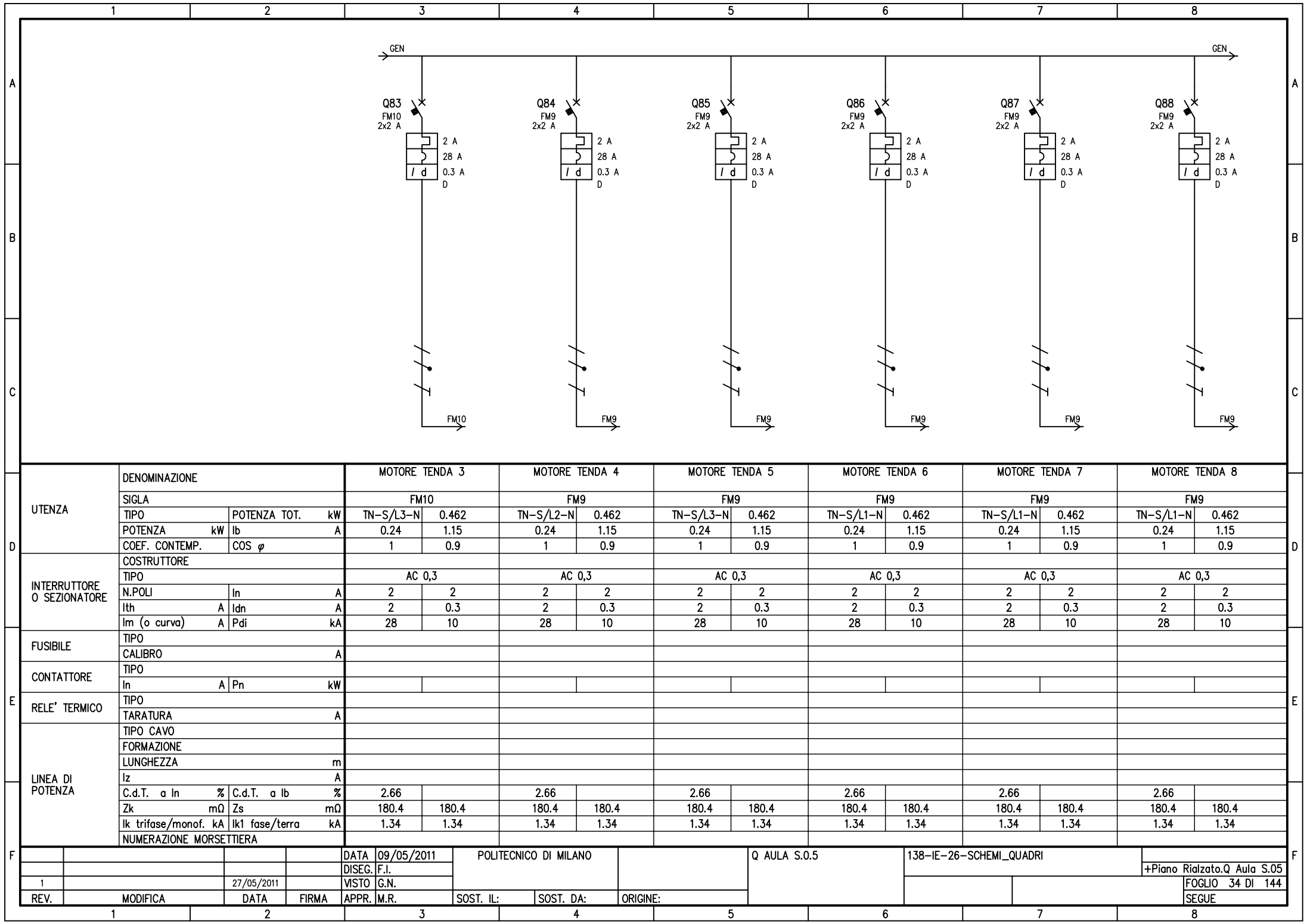


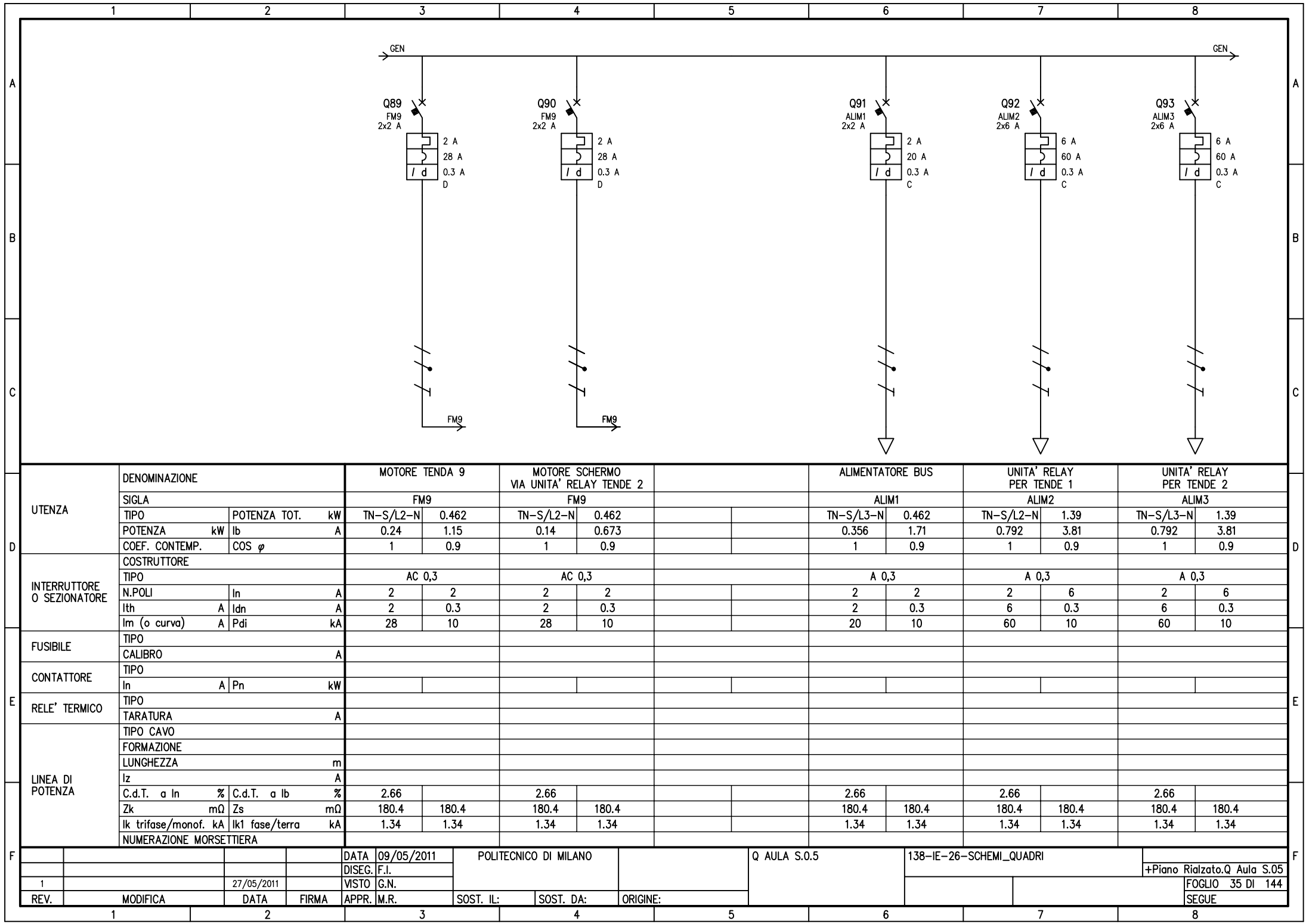
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|------|----------|------------|-------|--------|------------|-----------------------|-----------|----------|---|-------------------------|--|---------------------------|
| | | | | DATA | 11/05/2011 | POLITECNICO DI MILANO | | | Q AULA S.O.4 TIPICO COLLEGAMENTI UNITA' RELAY TENDE | 138-IE-26-SCHEMI_QUADRI | | |
| | | | | DISEG. | F.I. | | | | | | | |
| 1 | | 27/05/2011 | | VISTO | G.N. | | | | | | | |
| REV. | MODIFICA | DATA | FIRMA | APPR. | M.R. | SOST. IL: | SOST. DA: | ORIGINE: | | | | FOGLIO 30 DI 144 SEGUE |

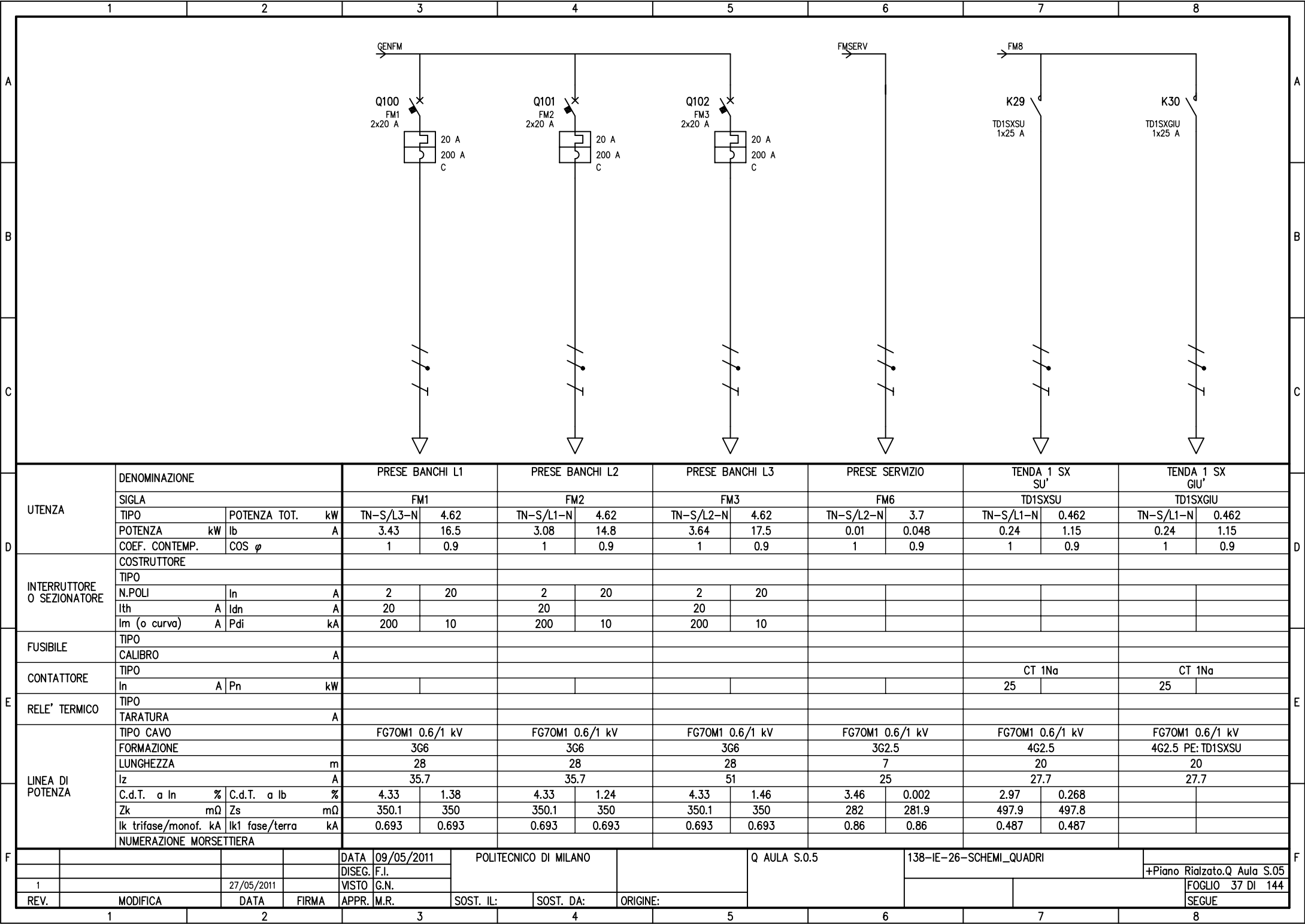
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|---|------------------------------|----------|----------------|--------|------------|-----------------------|-----------|-----------|--------------|-------------------------|--|-----------------------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| A | | | | | | | | | A | | | |
| B | Potenza | | 20.8 kW | | | | | | | | | |
| | Caduta di tensione (Tot. Ib) | | 2.23 % | | | | | | | | | |
| | Corrente di guasto (Ikmax) | | 3.33 kA | | | | | | | | | |
| | Zona | | Piano Rialzato | | | | | | | | | |
| | Quadro | | Q Aula S.05 | | | | | | | | | |
| C | | | | | | | | | C | | | |
| D | | | | | | | | | D | | | |
| E | | | | | | | | | E | | | |
| F | | | | DATA | 09/05/2011 | POLITECNICO DI MILANO | | | Q AULA S.0.5 | 138-IE-26-SCHEMI_QUADRI | | |
| | | | | DISEG. | F.I. | | | | | | | +Piano Rialzato.Q Aula S.05 |
| | 1 | | 27/05/2011 | VISTO | G.N. | | | | | | | FOGLIO 31 DI 144 |
| | REV. | MODIFICA | DATA | FIRMA | APPR. | M.R. | SOST. IL: | SOST. DA: | ORIGINE: | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |

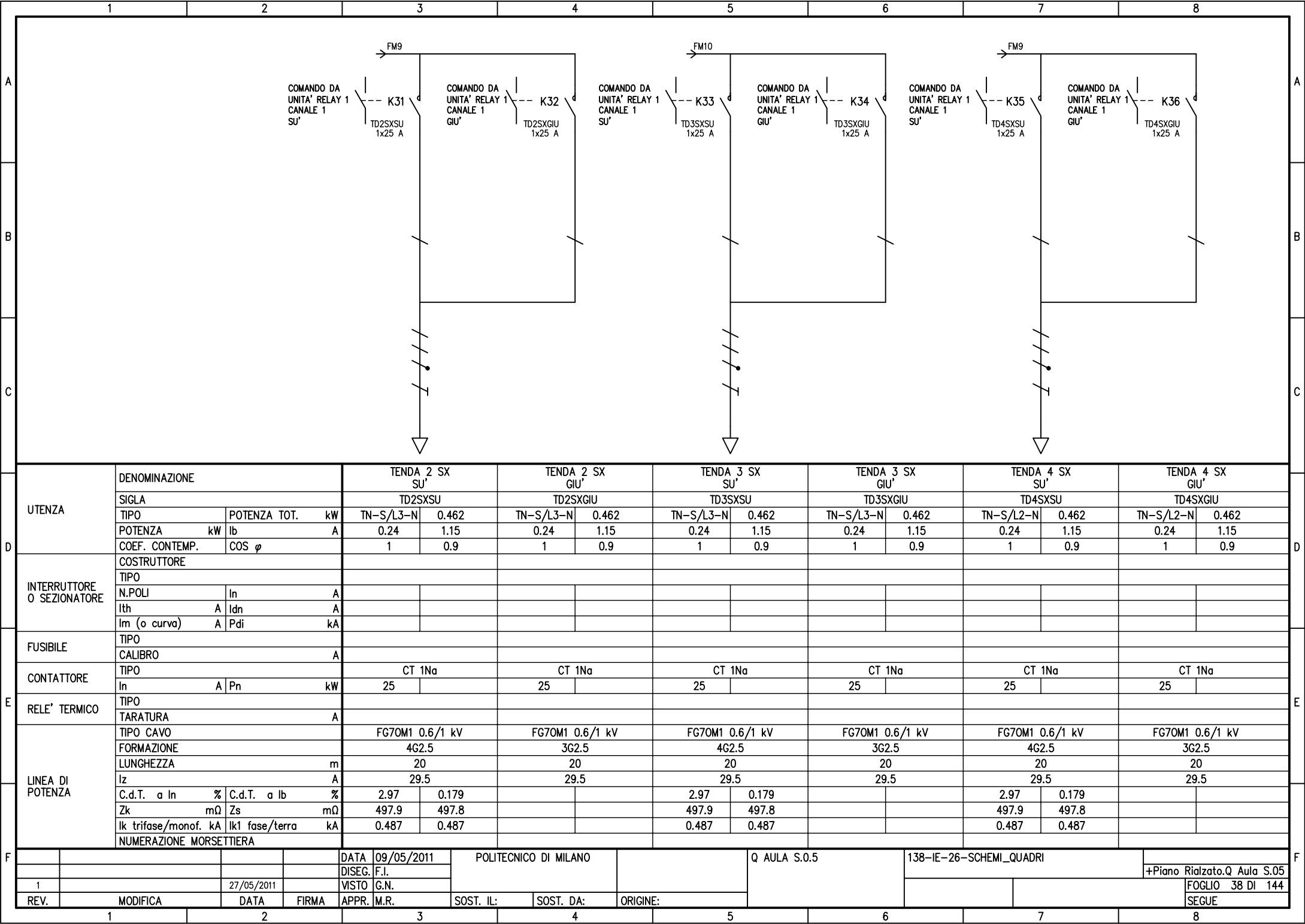


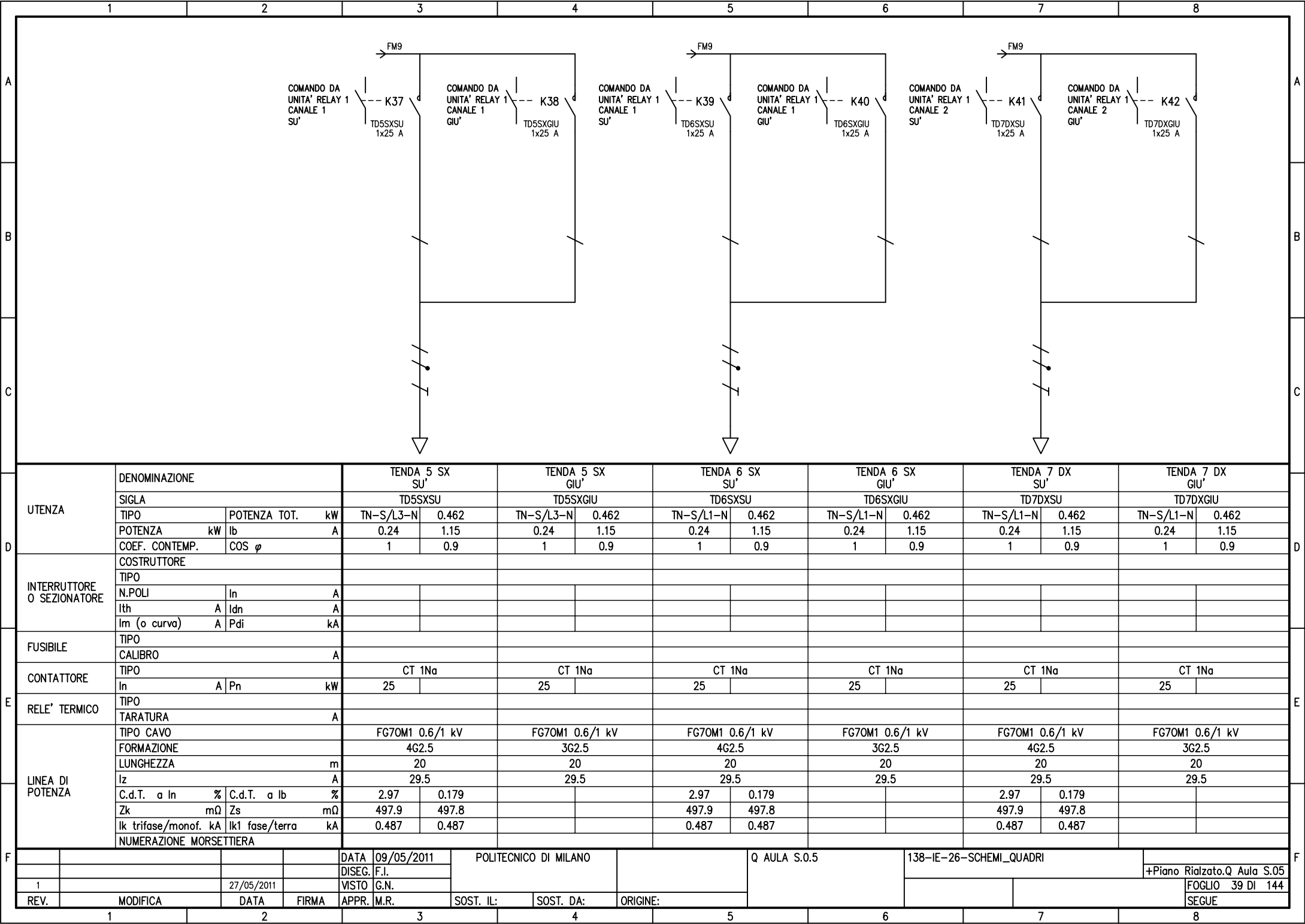




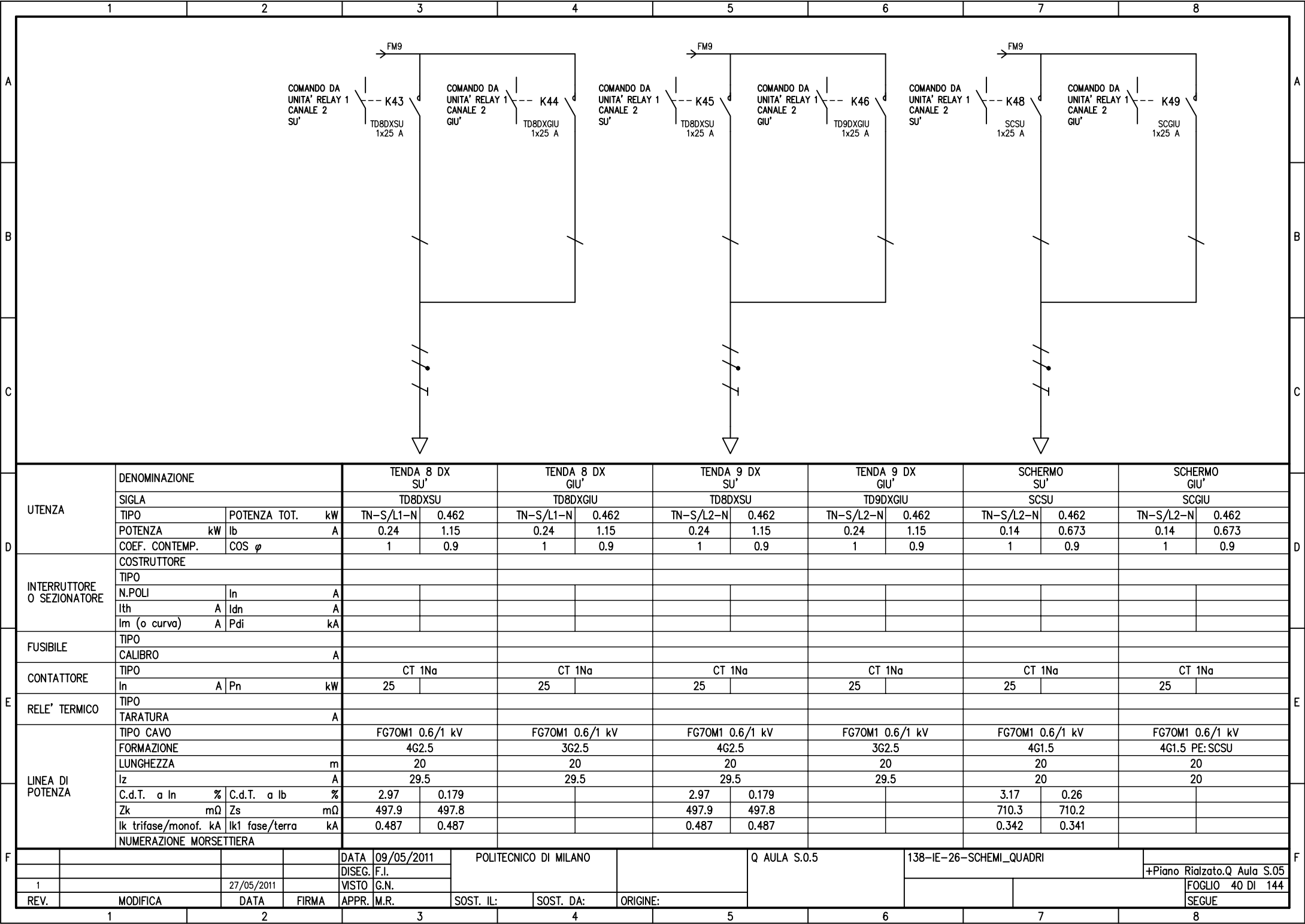




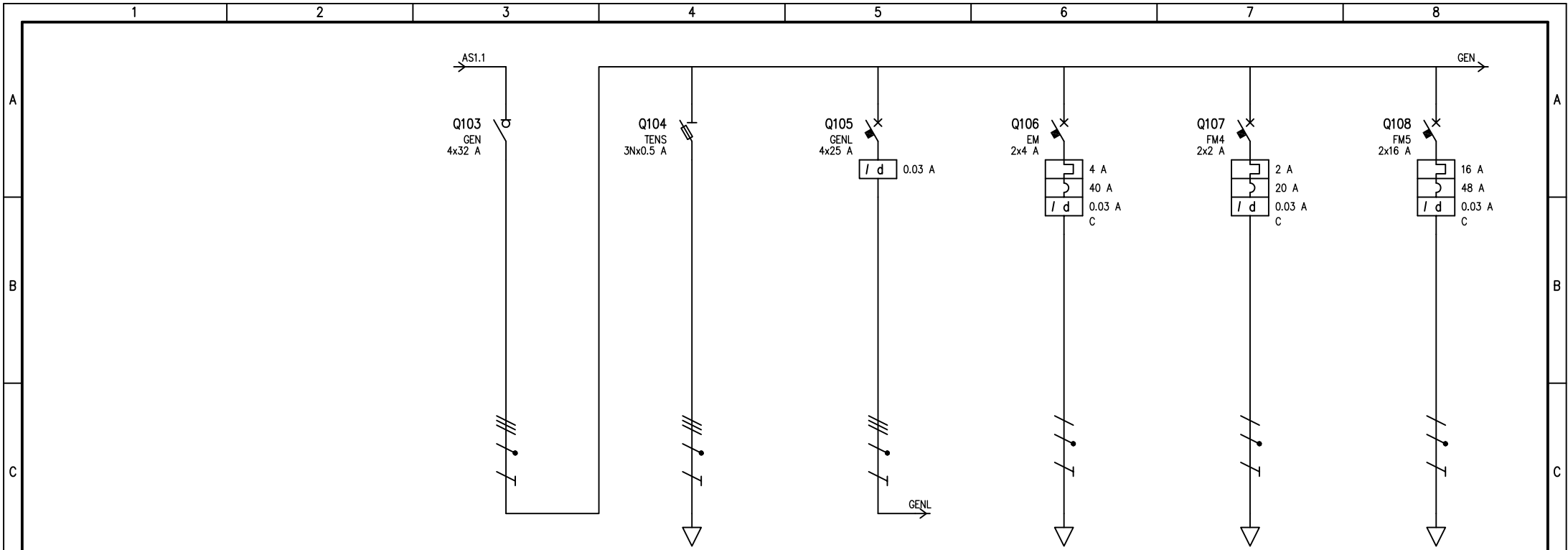




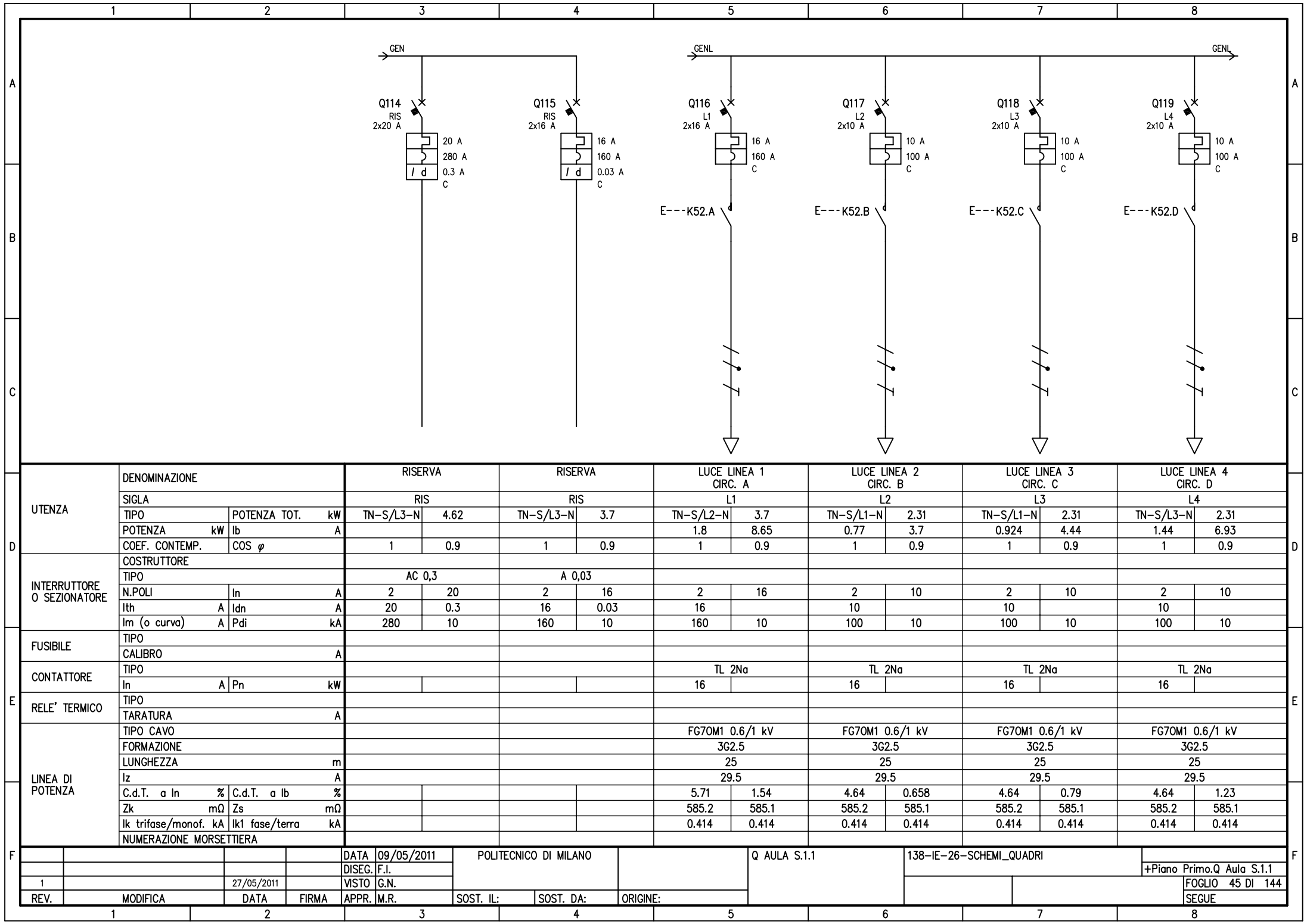
| | | | | | | | | | | | | | | |
|-------------------------------|-------------------------|-----------------|-----------------------|--|--------------------|--|-------------------------|--|-----------------------------|--|-------------------|--|--------------------|--|
| UTENZA | DENOMINAZIONE | | TENDA 5 SX SU' | | TENDA 5 SX GIU' | | TENDA 6 SX SU' | | TENDA 6 SX GIU' | | TENDA 7 DX SU' | | TENDA 7 DX GIU' | |
| | SIGLA | | TD5XSUSU | | TD5SXGIU | | TD6XSUSU | | TD6SXGIU | | TD7DXSU | | TD7DXGIU | |
| | TIPO | POTENZA TOT. kW | TN-S/L3-N 0.462 | | TN-S/L3-N 0.462 | | TN-S/L1-N 0.462 | | TN-S/L1-N 0.462 | | TN-S/L1-N 0.462 | | TN-S/L1-N 0.462 | |
| | POTENZA kW | lb | A 0.24 1.15 | | A 0.24 1.15 | | A 0.24 1.15 | | A 0.24 1.15 | | A 0.24 1.15 | | A 0.24 1.15 | |
| INTERRUTTORE O SEZIONATORE | COEF. CONTEMP. COS φ | | 1 0.9 | | 1 0.9 | | 1 0.9 | | 1 0.9 | | 1 0.9 | | 1 0.9 | |
| | COSTRUTTORE | | | | | | | | | | | | | |
| | TIPO | | | | | | | | | | | | | |
| | N.POLI | In A | | | | | | | | | | | | |
| FUSIBILE | Ith A | | | | | | | | | | | | | |
| | Im (o curva) A | | Pdi kA | | | | | | | | | | | |
| | TIPO | | | | | | | | | | | | | |
| | CALIBRO | | A | | | | | | | | | | | |
| CONTATTORE | TIPO | | CT 1Na | | CT 1Na | | CT 1Na | | CT 1Na | | CT 1Na | | CT 1Na | |
| | In A | Pn kW | 25 | | 25 | | 25 | | 25 | | 25 | | 25 | |
| | TIPO | | | | | | | | | | | | | |
| | RELE' TERMICO | | A | | | | | | | | | | | |
| LINEA DI POTENZA | TIPO | | FG70M1 0.6/1 kV | | FG70M1 0.6/1 kV | | FG70M1 0.6/1 kV | | FG70M1 0.6/1 kV | | FG70M1 0.6/1 kV | | FG70M1 0.6/1 kV | |
| | FORMAZIONE | | 4G2.5 | | 3G2.5 | | 4G2.5 | | 3G2.5 | | 4G2.5 | | 3G2.5 | |
| | LUNGHEZZA | | m 20 | | m 20 | | m 20 | | m 20 | | m 20 | | m 20 | |
| | Iz A | | 29.5 | | 29.5 | | 29.5 | | 29.5 | | 29.5 | | 29.5 | |
| | C.d.T. a In % | C.d.T. a Ib % | 2.97 0.179 | | | | 2.97 0.179 | | | | 2.97 0.179 | | | |
| | Zk mΩ | Zs mΩ | 497.9 497.8 | | | | 497.9 497.8 | | | | 497.9 497.8 | | | |
| | Ik trifase/monof. kA | | 0.487 0.487 | | | | 0.487 0.487 | | | | 0.487 0.487 | | | |
| | NUMERAZIONE MORSETTIERA | | | | | | | | | | | | | |
| F | DATA 09/05/2011 | | POLITECNICO DI MILANO | | Q AULA S.0.5 | | 138-IE-26-SCHEMI_QUADRI | | +Piano Rialzato.Q Aula S.05 | | FOGLIO 39 DI 144 | | SEGUE | |
| | DISEG. F.I. | | | | | | | | | | | | | |
| | VISTO G.N. | | | | | | | | | | | | | |
| | REV. MODIFICA | | DATA FIRMA | | APPR. M.R. | | SOST. IL: | | SOST. DA: | | ORIGINE: | | | |

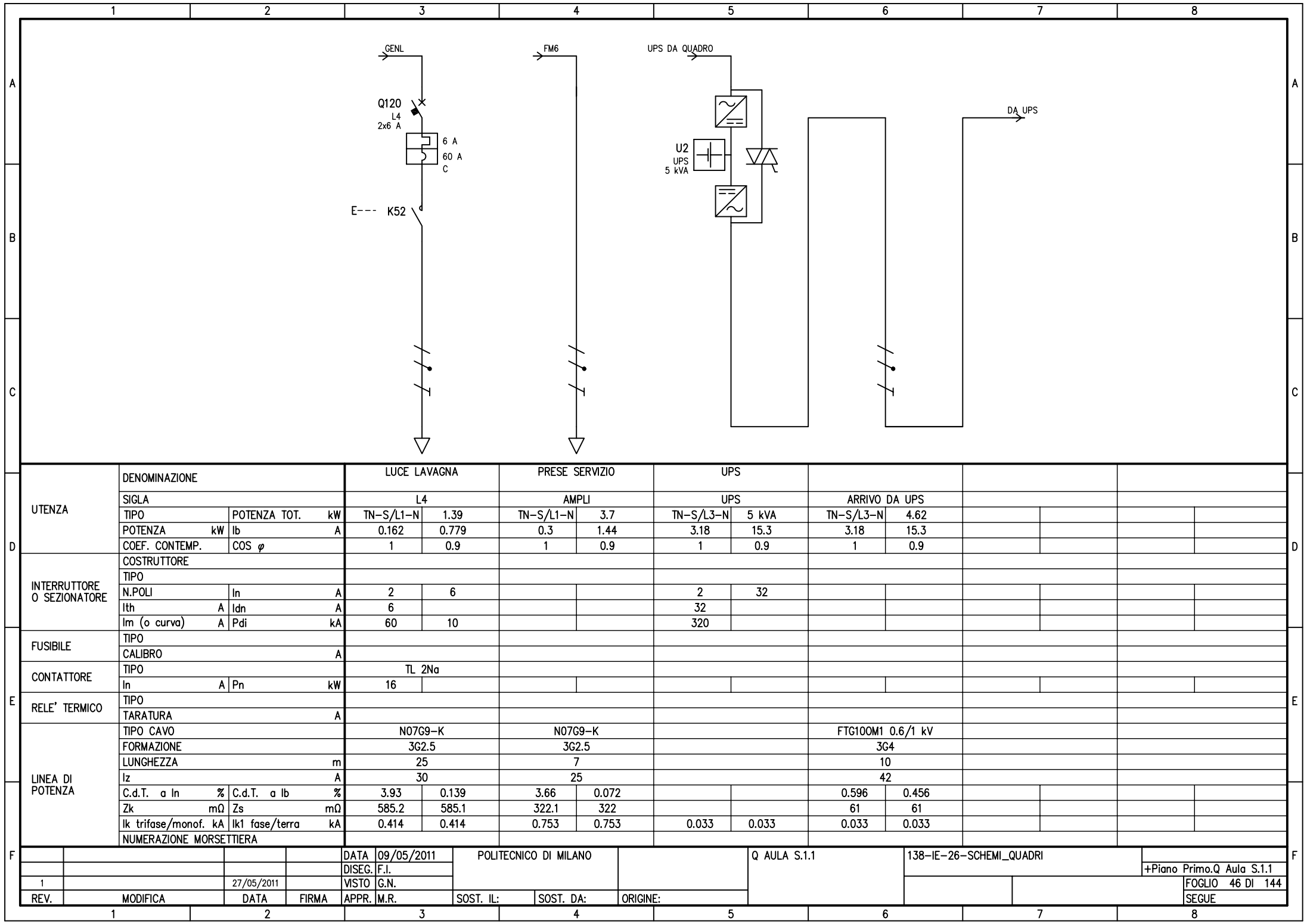


| | | | | | | | | | | | | |
|---|------------------------------|----------|--------------|--------|------------|-----------------------|-----------|-----------|--------------|-------------------------|--|---------------------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| A | | | | | | | | | A | | | |
| B | Potenza | | 9.11 kW | | | | | | | | | |
| | Caduta di tensione (Tot. Ib) | | 2.06 % | | | | | | | | | |
| | Corrente di guasto (Ikmax) | | 2.2 kA | | | | | | | | | |
| | Zona | | Piano Primo | | | | | | | | | |
| | Quadro | | Q Aula S.1.1 | | | | | | | | | |
| C | | | | | | | | | C | | | |
| D | | | | | | | | | D | | | |
| E | | | | | | | | | E | | | |
| F | | | | DATA | 09/05/2011 | POLITECNICO DI MILANO | | | Q AULA S.1.1 | 138-IE-26-SCHEMI_QUADRI | | |
| | | | | DISEG. | F.I. | | | | | | | +Piano Primo.Q Aula S.1.1 |
| | 1 | | 27/05/2011 | VISTO | G.N. | | | | | | | FOGLIO 42 DI 144 |
| | REV. | MODIFICA | DATA | FIRMA | APPR. | M.R. | SOST. IL: | SOST. DA: | ORIGINE: | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |

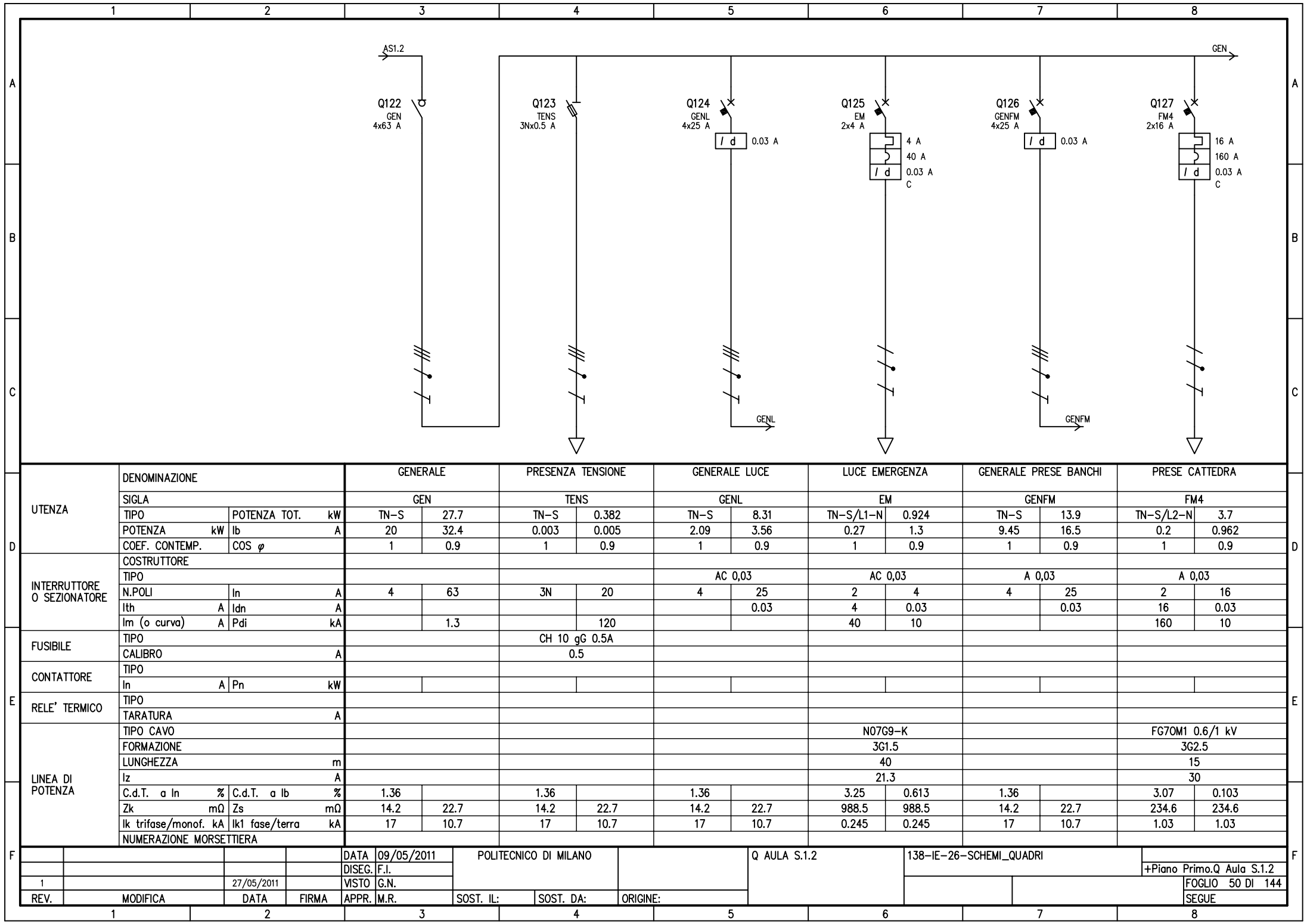


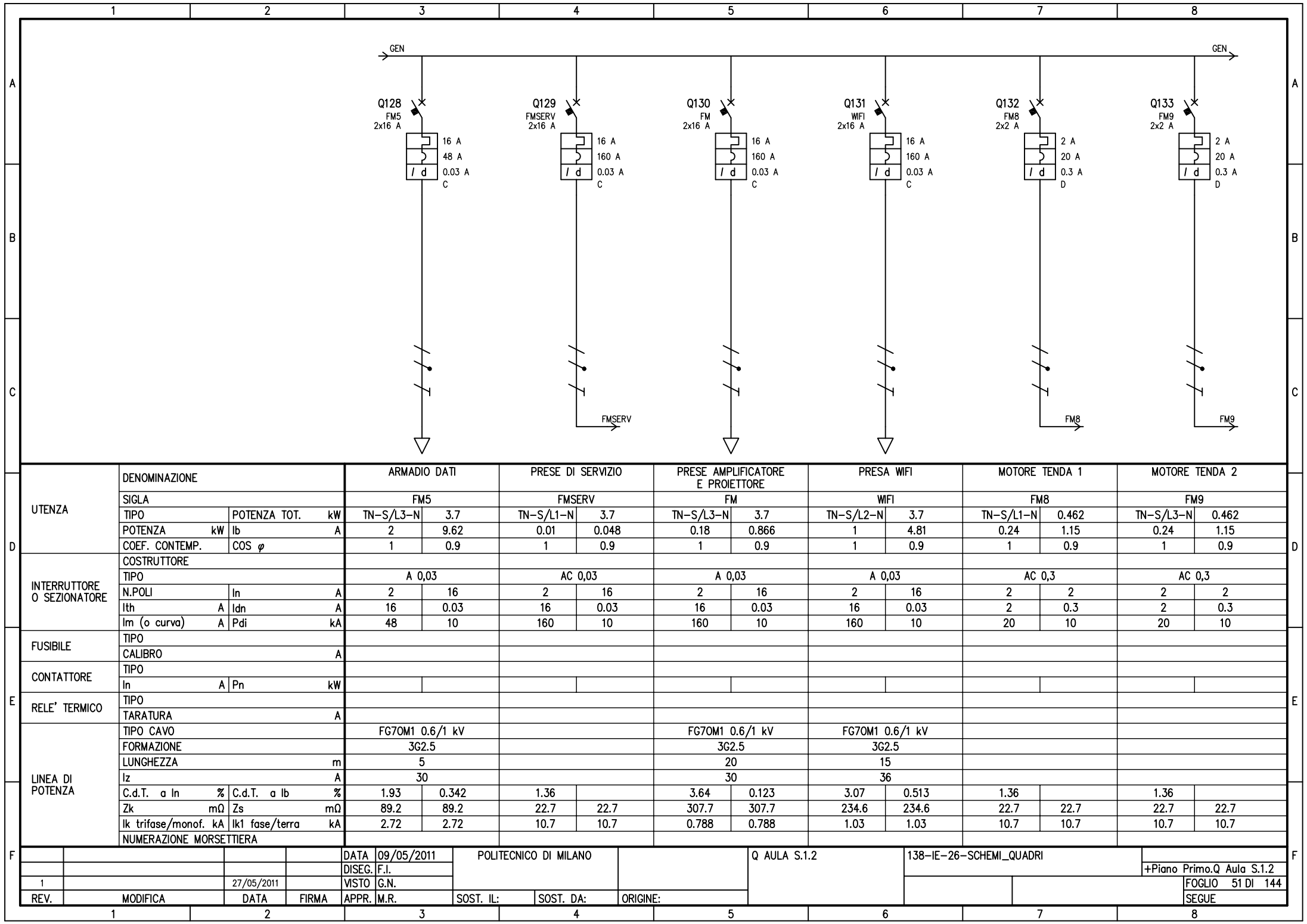
| | | | | | | | | | | | | | | | | |
|---------------------|-------------------------------|-------------------------|-------------------|----------|------------|-----------------------|-----------|---------------|----------|-------------------------|--------|----------------|-------|---------------------------|-------|------|
| D | UTENZA | DENOMINAZIONE | | GENERALE | | PRESENZA TENSIONE | | GENERALE LUCE | | LUCE EMERGENZA | | PRESE CATTEDRA | | ARMADIO DATI | | |
| | | SIGLA | | GEN | | TENS | | GENL | | EM | | FM4 | | FM5 | | |
| | | TIPO | POTENZA TOT. kW | TN-S | 17.3 | TN-S | 0.382 | TN-S | 17.3 | TN-S/L1-N | 0.924 | TN-S/L2-N | 0.462 | TN-S/L3-N | 3.7 | |
| | | POTENZA kW | Ib | 9.11 | 16.6 | 0.003 | 0.005 | 5.09 | 8.93 | 0.33 | 1.59 | 0.2 | 0.962 | 2 | 9.62 | |
| | | COEF. CONTEMP. | COS ϕ | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 | |
| | INTERRUTTORE O SEZIONATORE | CONSTRUTTORE | | | | | | | | | | | | | | |
| | | TIPO | | | | | | AC 0,03 | | AC 0,03 | | A 0,03 | | A 0,03 | | |
| | | N.POLI | In | A | 4 | 32 | 3N | 20 | 4 | 25 | 2 | 4 | 2 | 2 | 16 | |
| | | Ith | A Idn | A | | | | | | 0.03 | 4 | 0.03 | 2 | 0.03 | 16 | 0.03 |
| | | Im (o curva) | A Pdi | kA | | 0.6 | | 100 | | | 40 | 10 | 20 | 10 | 48 | 10 |
| E | FUSIBILE | TIPO | | | | 3NW8-0 dM 0,5A | | | | | | | | | | |
| | | CALIBRO | | A | | 0.5 | | | | | | | | | | |
| | CONTATTORE | TIPO | | | | | | | | | | | | | | |
| | | In | A Pn | kW | | | | | | | | | | | | |
| | | RELE' TERMICO | TIPO | | | | | | | | | | | | | |
| TARATURA | | | A | | | | | | | | | | | | | |
| LINEA DI POTENZA | | TIPO CAVO | | | | | | | | N07G9-K | | N07G9-K | | N07G9-K | | |
| | | FORMAZIONE | | | | | | | | 3G1.5 | | 3G2.5 | | 3G2.5 | | |
| | | LUNGHEZZA | | m | | | | | | 40 | | 15 | | 5 | | |
| | Iz | A | | | | | | | 21.3 | | 30 | | 30 | | | |
| | C.d.T. a In % | C.d.T. a Ib % | 2.86 | | 2.86 | | 2.86 | | 4.75 | 0.749 | 3.08 | 0.103 | 3.43 | 0.342 | | |
| F | | Zk mΩ | Zs mΩ | 110.4 | 220 | 110.4 | 220 | 110.4 | 220 | 1192.8 | 1192.7 | 438.9 | 438.9 | 292.9 | 292.8 | |
| | | Ik trifase/monof. kA | Ik1 fase/terra kA | 2.2 | 1.1 | 2.2 | 1.1 | 2.2 | 1.1 | 0.203 | 0.203 | 0.553 | 0.553 | 0.828 | 0.828 | |
| | | NUMERAZIONE MORSETTIERA | | | | | | | | | | | | | | |
| | | | | DATA | 09/05/2011 | POLITECNICO DI MILANO | | Q AULA S.1.1 | | 138-IE-26-SCHEMI_QUADRI | | | | | | |
| | | | | DISEG. | F.I. | | | | | | | | | +Piano Primo.Q Aula S.1.1 | | |
| | 1 | | 27/05/2011 | VISTO | G.N. | | | | | | | | | FOGLIO 43 DI 144 | | |
| | REV. | MODIFICA | DATA | FIRMA | APPR. | M.R. | SOST. IL: | SOST. DA: | ORIGINE: | | | | | SEGUE | | |
| | 1 | | 2 | | 3 | | 4 | | 5 | 6 | | 7 | | 8 | | |

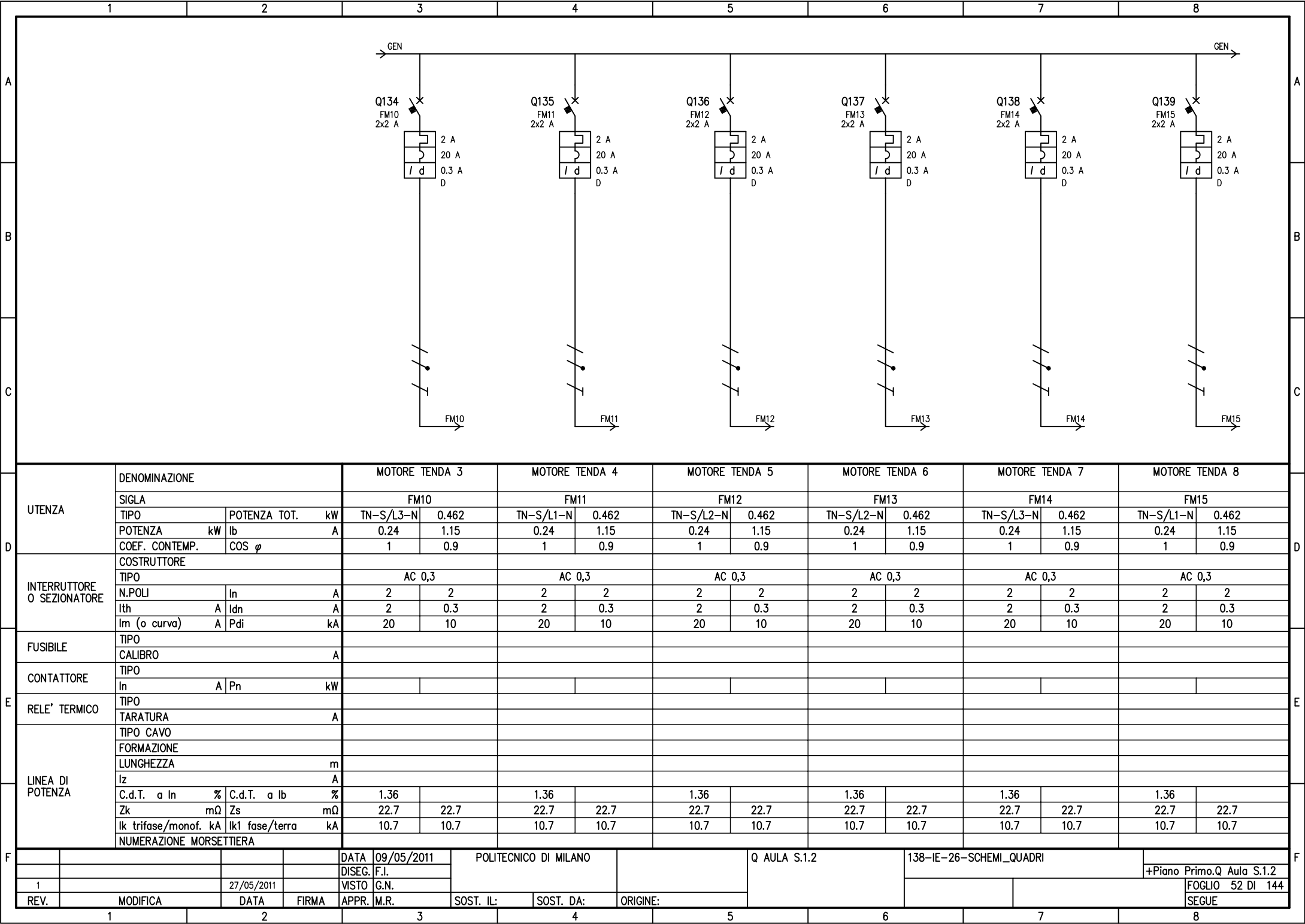


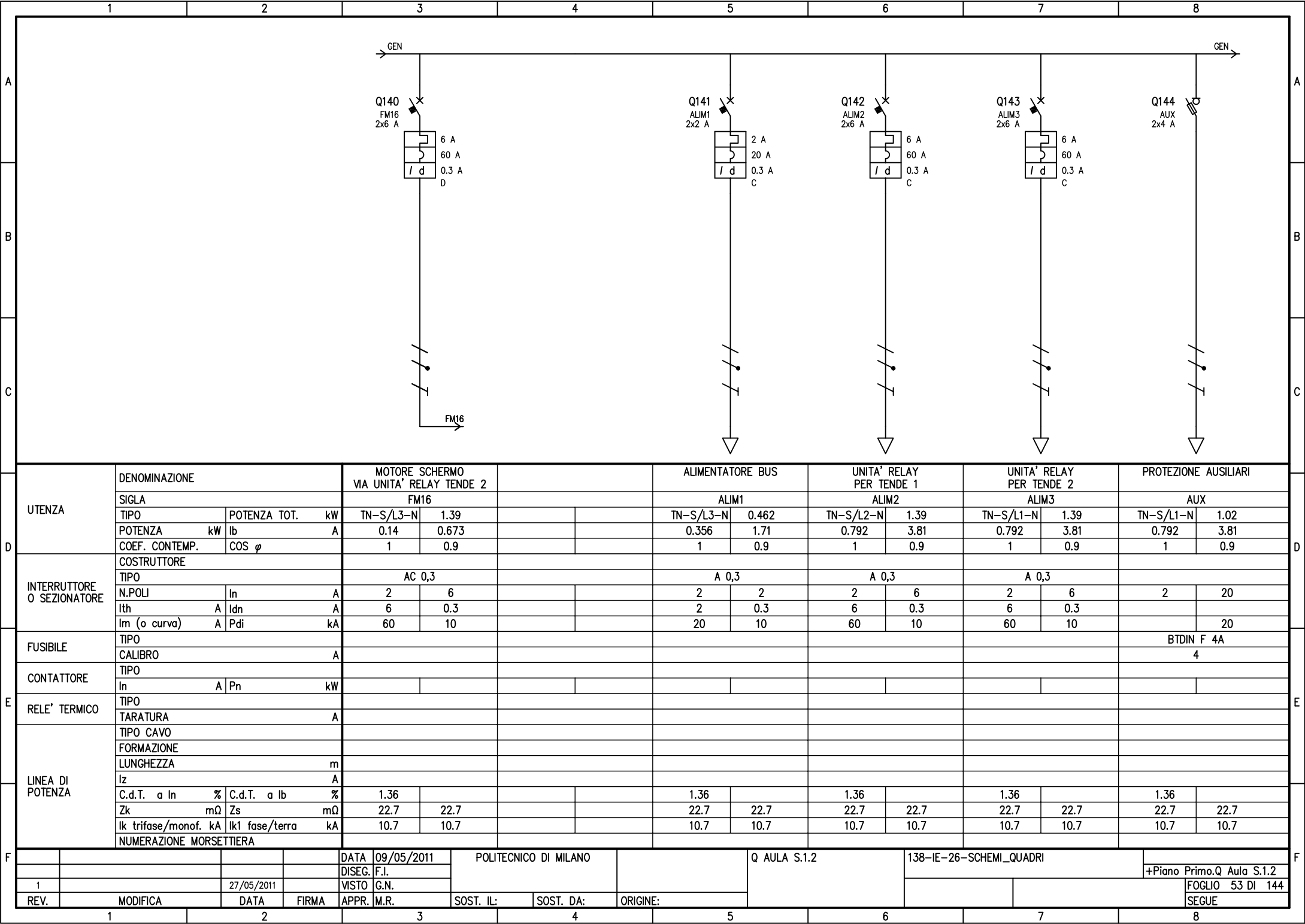


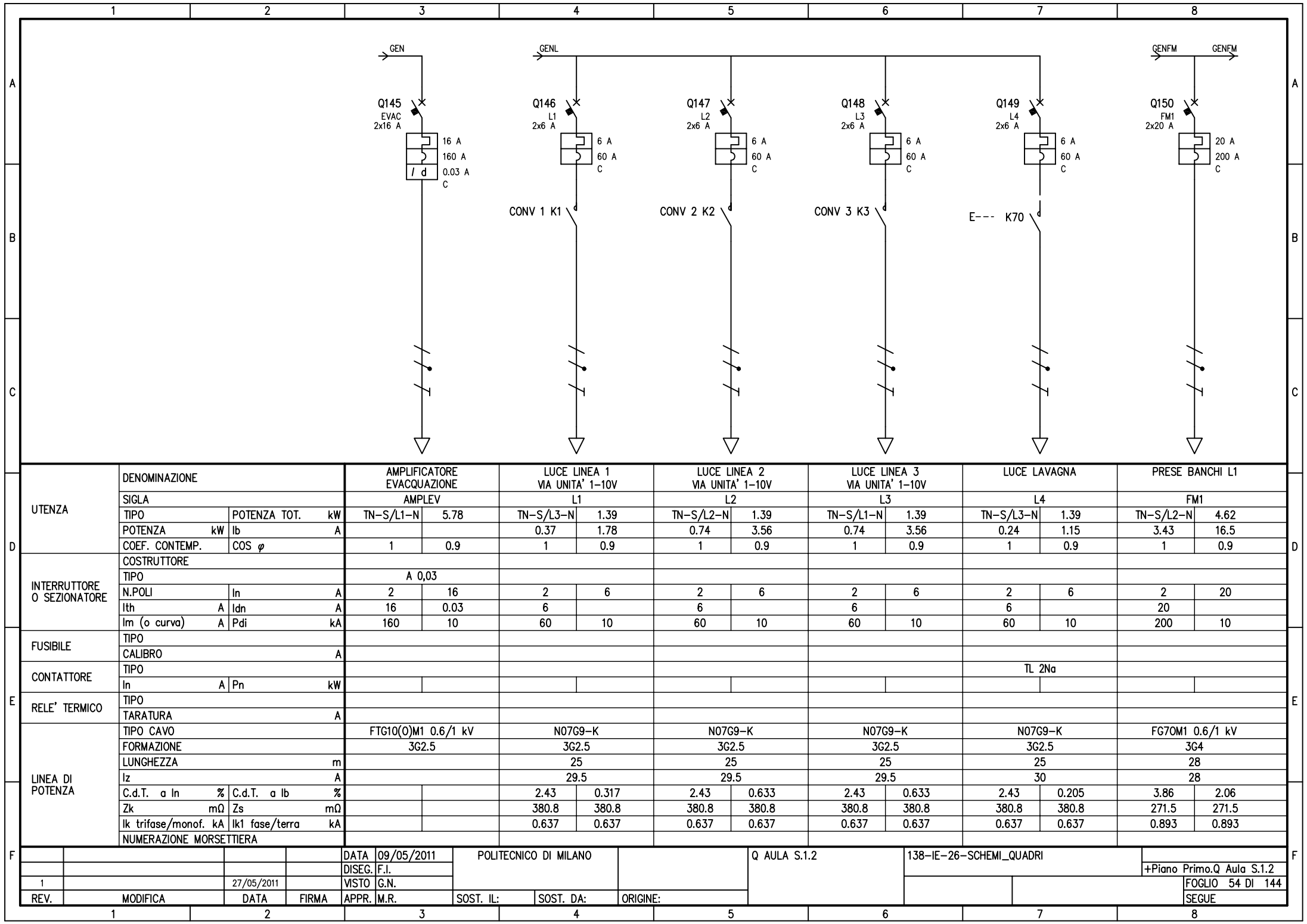
| | | | | | | | | | | | |
|---|------------------------------|----------|--------------|--------|------------|-----------------------|-----------|-----------|--------------|-------------------------|---------------------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | |
| A | | | | | | | | | A | | |
| B | Potenza | | 20 kW | | | | | | | | |
| | Caduta di tensione (Tot. Ib) | | 1.13 % | | | | | | | | |
| | Corrente di guasto (Ikmax) | | 17 kA | | | | | | | | |
| | Zona | | Piano Primo | | | | | | | | |
| | Quadro | | Q Aula S.1.2 | | | | | | | | |
| C | | | | | | | | | C | | |
| D | | | | | | | | | D | | |
| E | | | | | | | | | E | | |
| F | | | | DATA | 09/05/2011 | POLITECNICO DI MILANO | | | Q AULA S.1.2 | 138-IE-26-SCHEMI_QUADRI | |
| | | | | DISEG. | F.I. | | | | | | +Piano Primo.Q Aula S.1.2 |
| | 1 | | 27/05/2011 | VISTO | G.N. | | | | | | FOGLIO 49 DI 144 |
| | REV. | MODIFICA | DATA | FIRMA | APPR. | M.R. | SOST. IL: | SOST. DA: | ORIGINE: | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | |

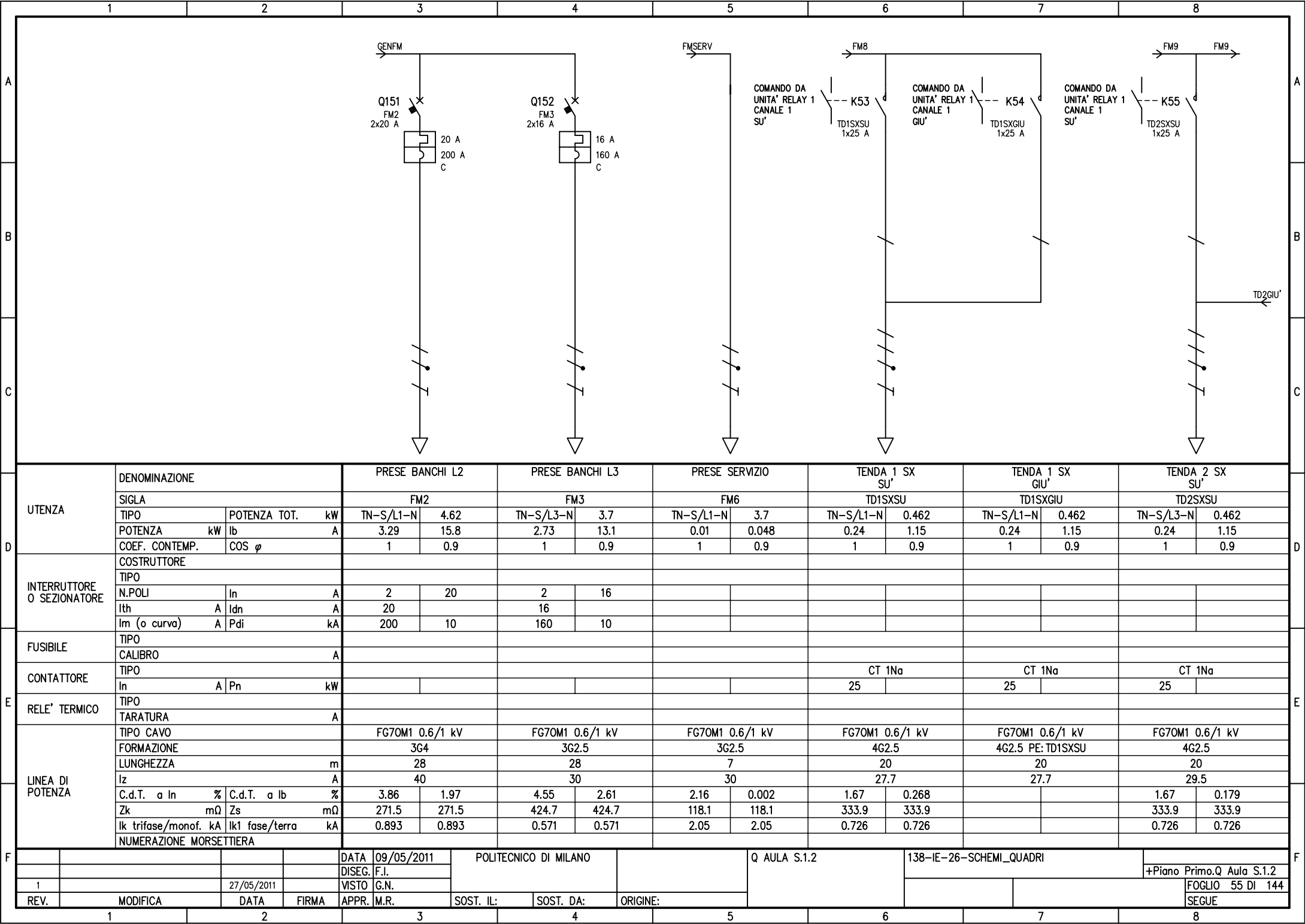


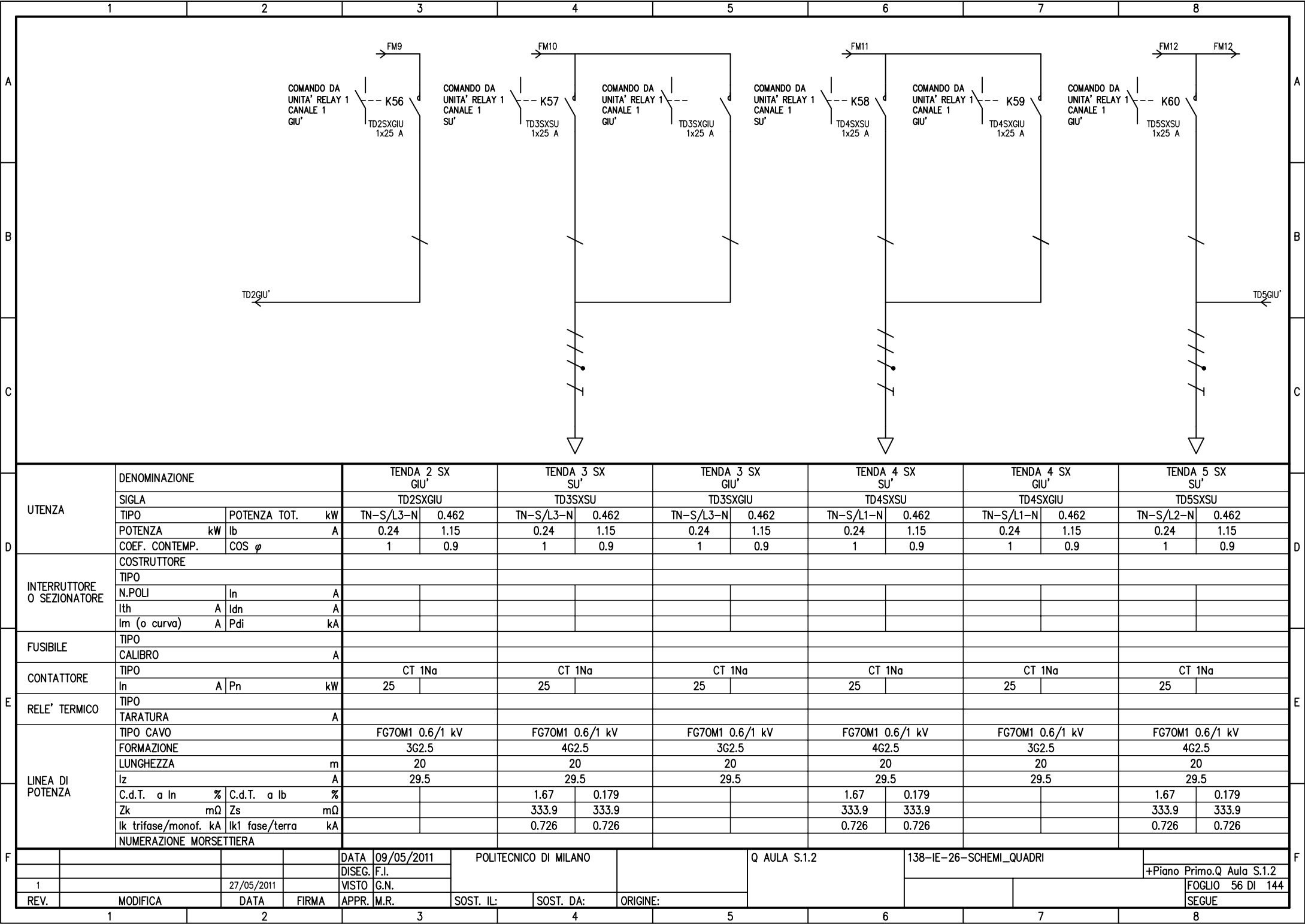


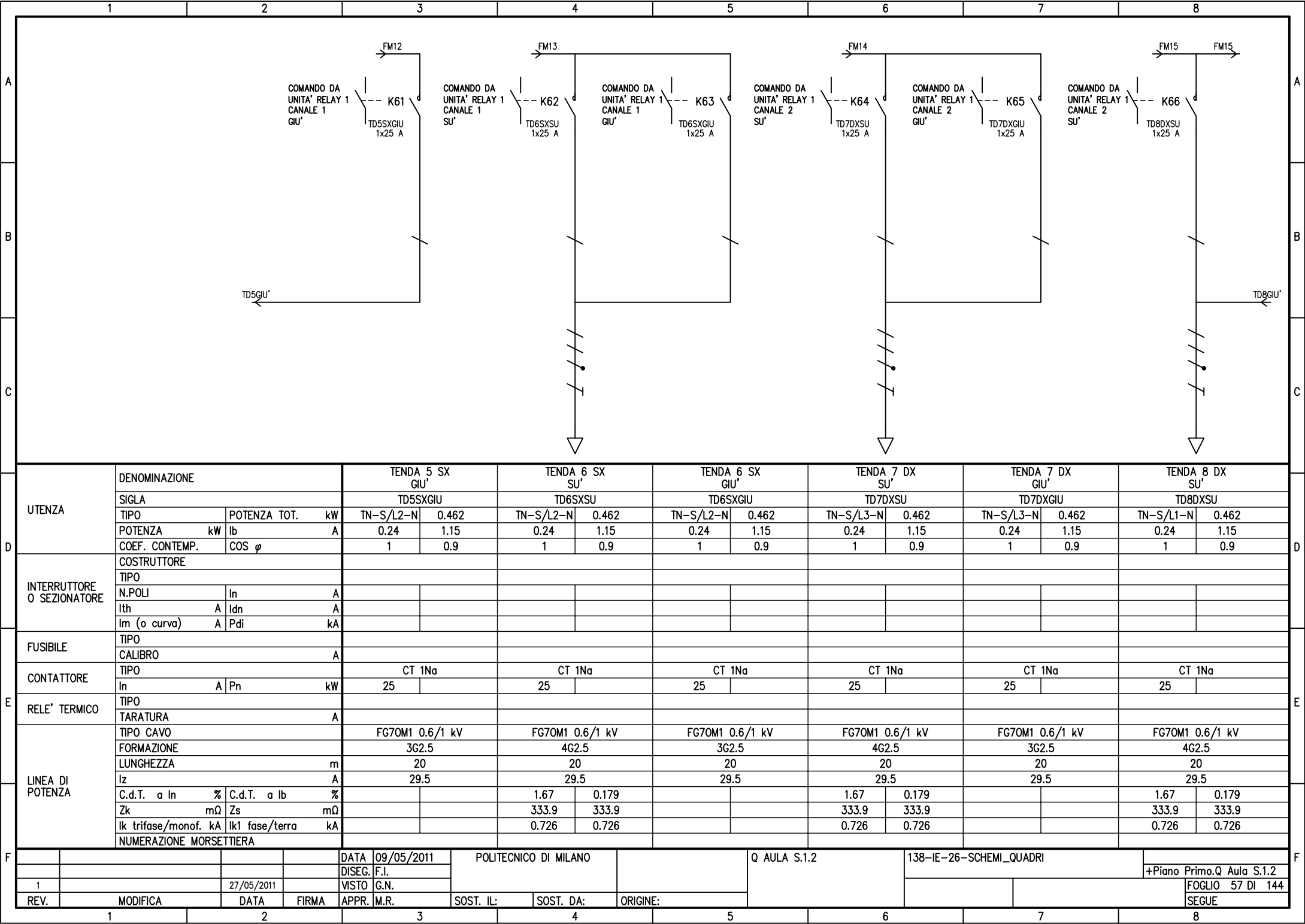


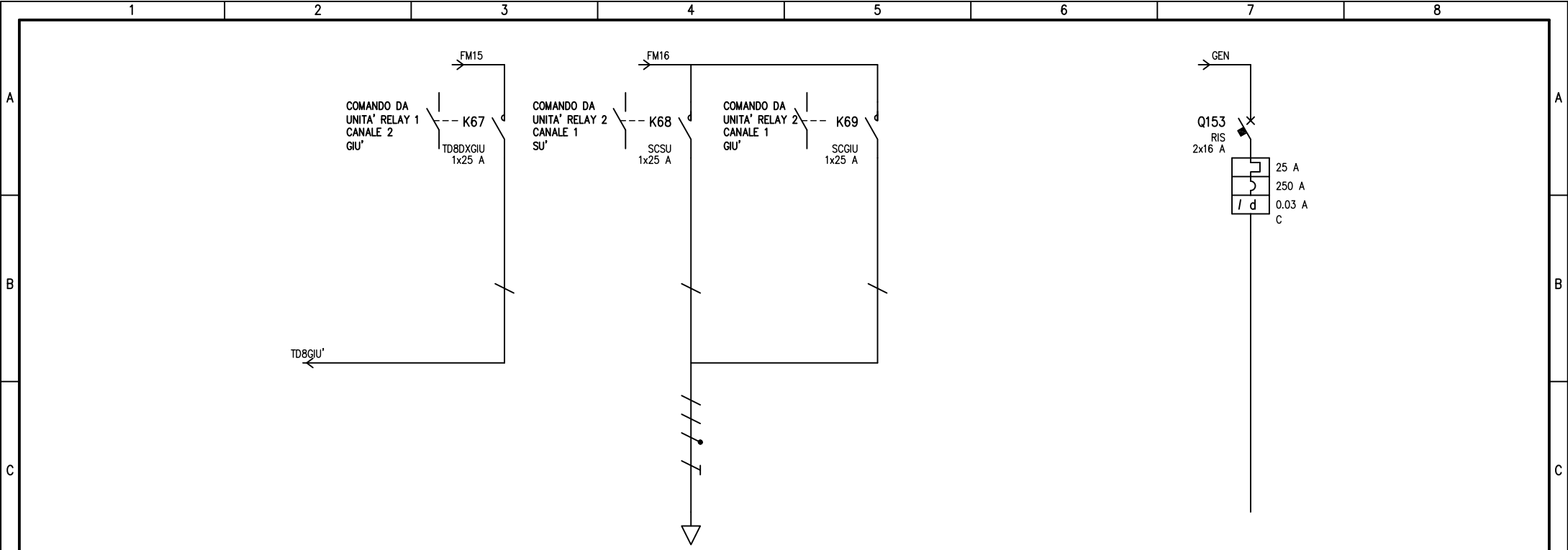






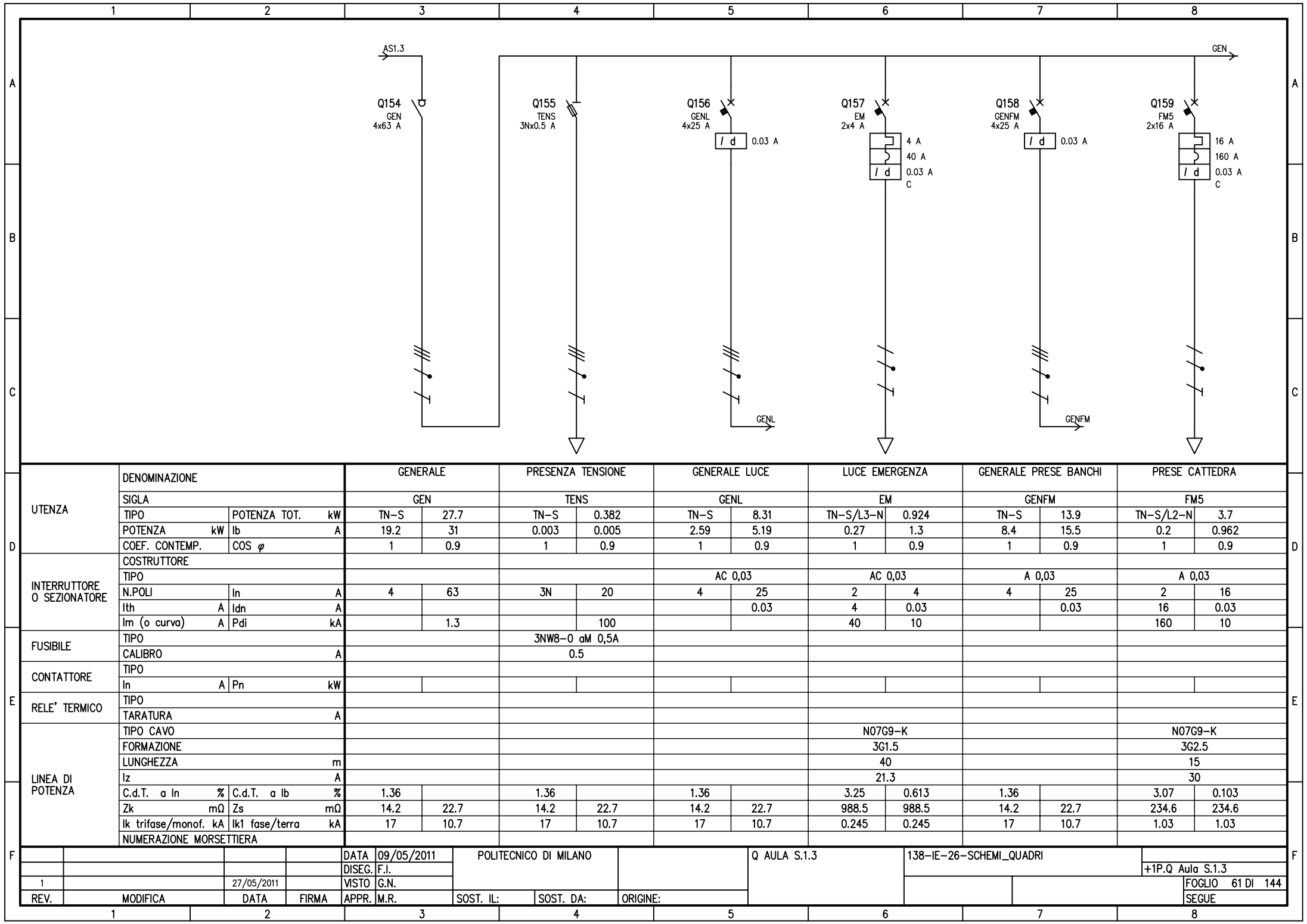


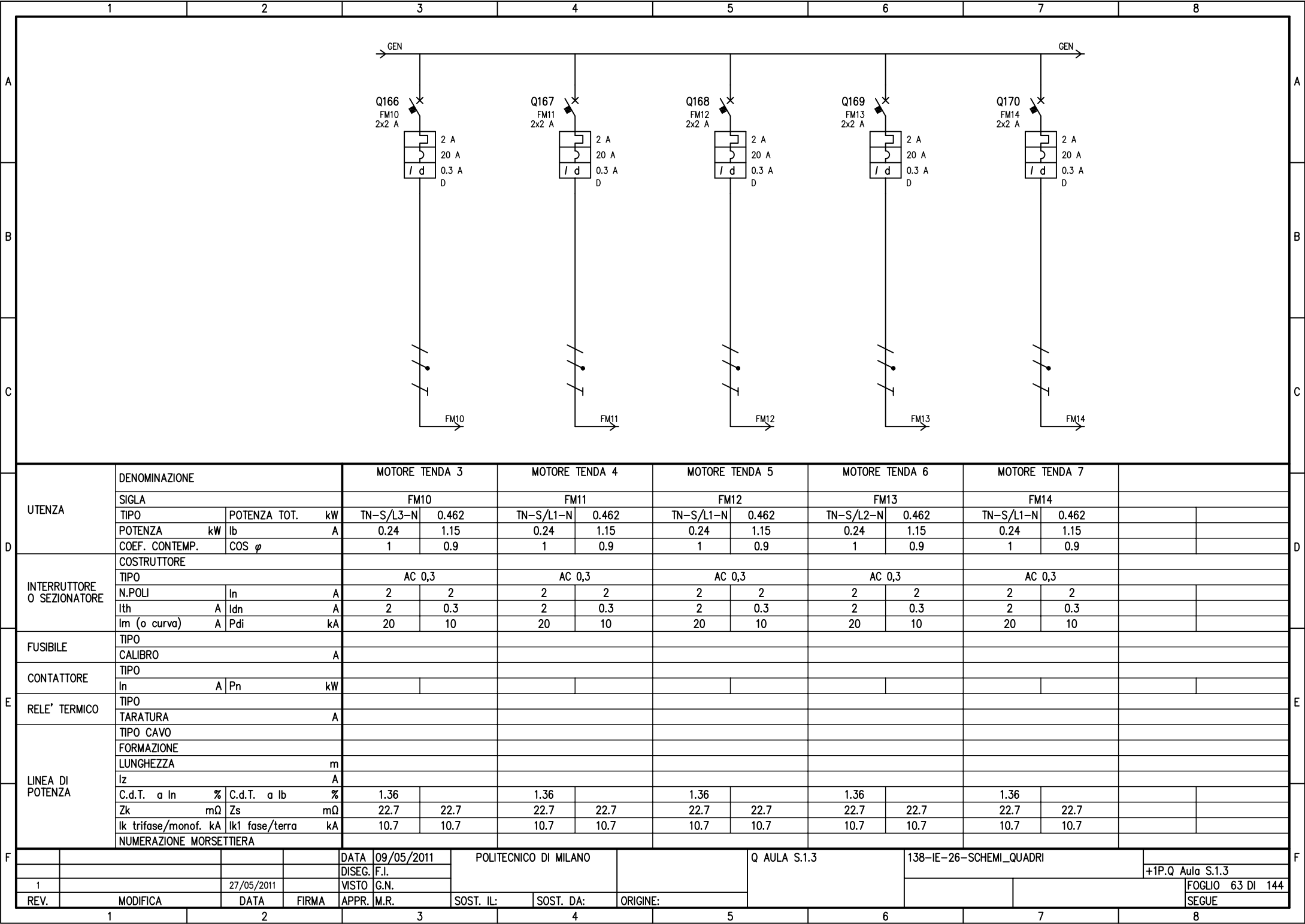


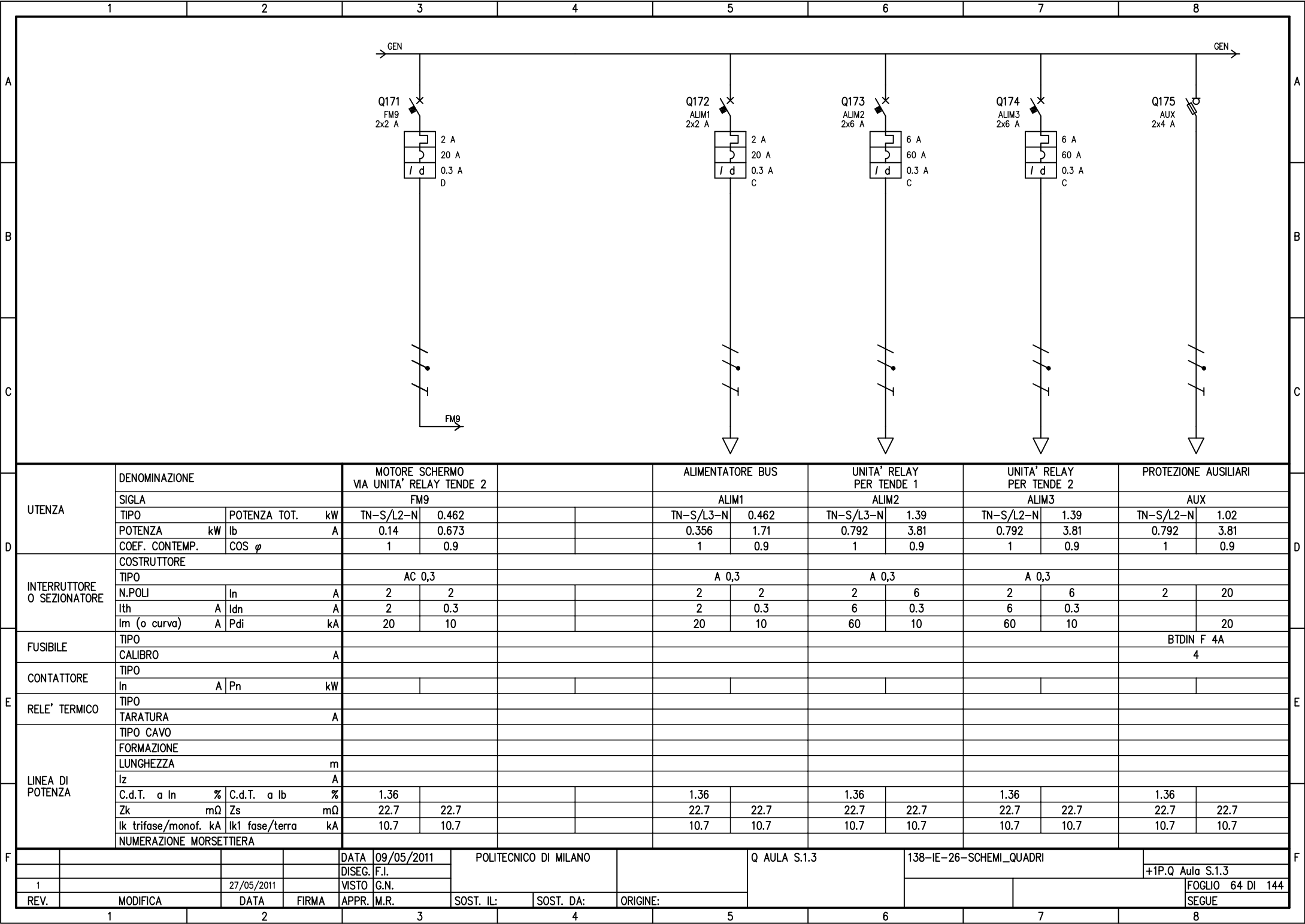


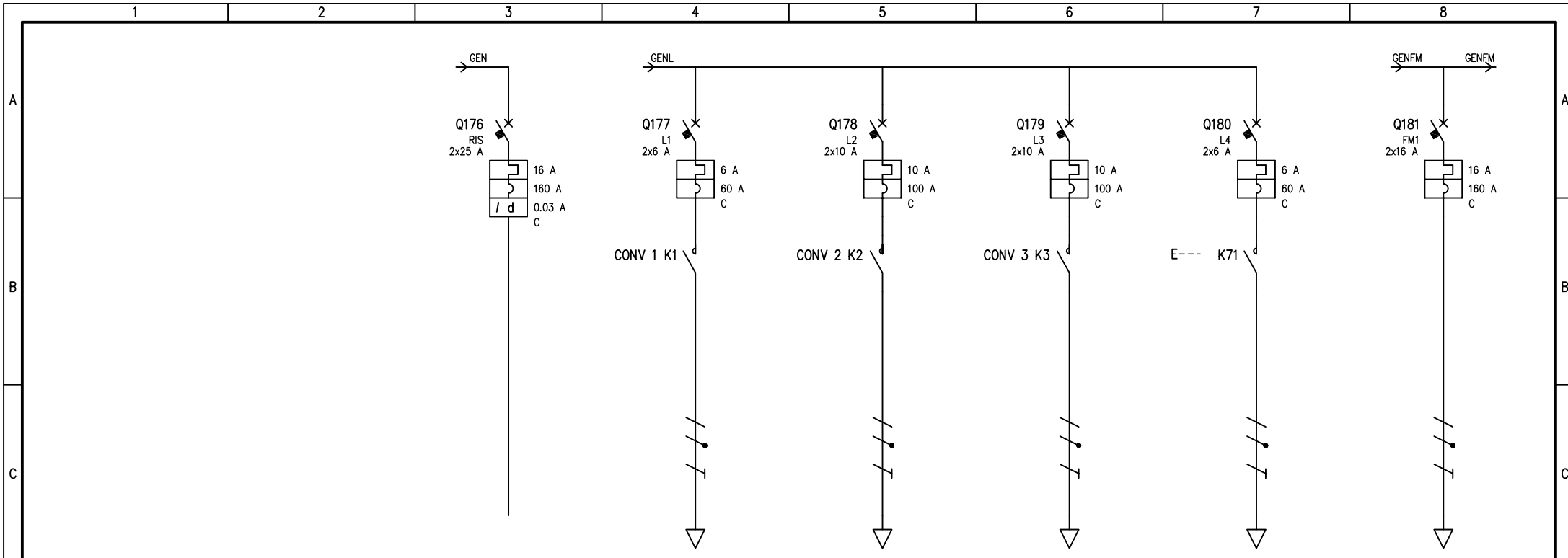
| | | | | | | | | | | | |
|----------------------------|-------------------------|---------------|----------------|-----------------|------------|-----------------------|-----------|-----------------|------|---------------------------|------|
| UTENZA | DENOMINAZIONE | | | TENDA 8 DX GIU' | | SCHERMO SU' | | SCHERMO GIU' | | RISERVA | |
| | SIGLA | | | TD8DXGIU | | SCSU | | SCGIU | | RIS | |
| | TIPO | POTENZA TOT. | kW | TN-S/L1-N | 0.462 | TN-S/L3-N | 1.39 | TN-S/L3-N | 1.39 | TN-S/L1-N | 5.78 |
| | POTENZA | kW | lb | A | 0.24 | 1.15 | 0.14 | 0.673 | 0.14 | 0.673 | |
| INTERRUTTORE O SEZIONATORE | COEF. CONTEMP. | COS φ | | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 |
| | COSTRUTTORE | | | | | | | | | | |
| | TIPO | | | | | | | | | | |
| | N.POLI | In | A | | | | | | | 2 | 16 |
| FUSIBILE | Ith | A | Idn | A | | | | | | 16 | 0.03 |
| | Im (o curva) | A | Pdi | kA | | | | | | 160 | 10 |
| | TIPO | | | | | | | | | | |
| | CALIBRO | | | | | | | | | | |
| CONTATTORE | TIPO | | | CT 1Na | | CT 1Na | | CT 1Na | | | |
| | In | A | Pn | kW | 25 | | 25 | | 25 | | |
| | TIPO | | | | | | | | | | |
| | RELE' TERMICO | | | | | | | | | | |
| LINEA DI POTENZA | TIPO | | | FG70M1 0.6/1 kV | | FG70M1 0.6/1 kV | | FG70M1 0.6/1 kV | | | |
| | TARATURA | | | | | | | | | | |
| | TIPO CAVO | | | 3G2.5 | | 4G1.5 | | 4G1.5 PE:SCSU | | | |
| | FORMAZIONE | | | 20 | | 20 | | 20 | | | |
| | LUNGHEZZA | | | m | | 20 | | 20 | | | |
| | Iz | | | A | | 20 | | 20 | | | |
| | C.d.T. a In | % | C.d.T. a Ib | % | | | 2.91 | 0.26 | | | |
| | Zk | m Ω | Zs | m Ω | | | 546.4 | 546.4 | | | |
| | Ik trifase/monof. kA | | Ik1 fase/terra | kA | | | 0.444 | 0.444 | | | |
| | NUMERAZIONE MORSETTIERA | | | | | | | | | | |
| F | | | | DATA | 09/05/2011 | POLITECNICO DI MILANO | | Q AULA S.1.2 | | 138-IE-26-SCHEMI_QUADRI | |
| | | | | DISEG. | F.I. | | | | | +Piano Primo.Q Aula S.1.2 | |
| | 1 | | 27/05/2011 | VISTO | G.N. | | | | | FOGLIO 58 DI 144 | |
| | REV. | MODIFICA | DATA | FIRMA | APPR. M.R. | SOST. IL: | SOST. DA: | ORIGINE: | | SEGUE | |

| | | | | | | | | | | | | |
|---|------------------------------|----------|--------------|--------|------------|-----------------------|-----------|-----------|--------------|-------------------------|--|------------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| A | | | | | | | | | A | | | |
| B | Potenza | | 19.2 kW | | | | | | | | | |
| | Caduta di tensione (Tot. Ib) | | 1.13 % | | | | | | | | | |
| | Corrente di guasto (Ikmax) | | 17 kA | | | | | | | | | |
| | Zona | | 1P | | | | | | | | | |
| | Quadro | | Q Aula S.1.3 | | | | | | | | | |
| C | | | | | | | | | C | | | |
| D | | | | | | | | | D | | | |
| E | | | | | | | | | E | | | |
| F | | | | DATA | 09/05/2011 | POLITECNICO DI MILANO | | | Q AULA S.1.3 | 138-IE-26-SCHEMI_QUADRI | | |
| | | | | DISEG. | F.I. | | | | | | | +1P.Q Aula S.1.3 |
| | 1 | | 27/05/2011 | VISTO | G.N. | | | | | | | FOGLIO 60 DI 144 |
| | REV. | MODIFICA | DATA | FIRMA | APPR. | M.R. | SOST. IL: | SOST. DA: | ORIGINE: | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |

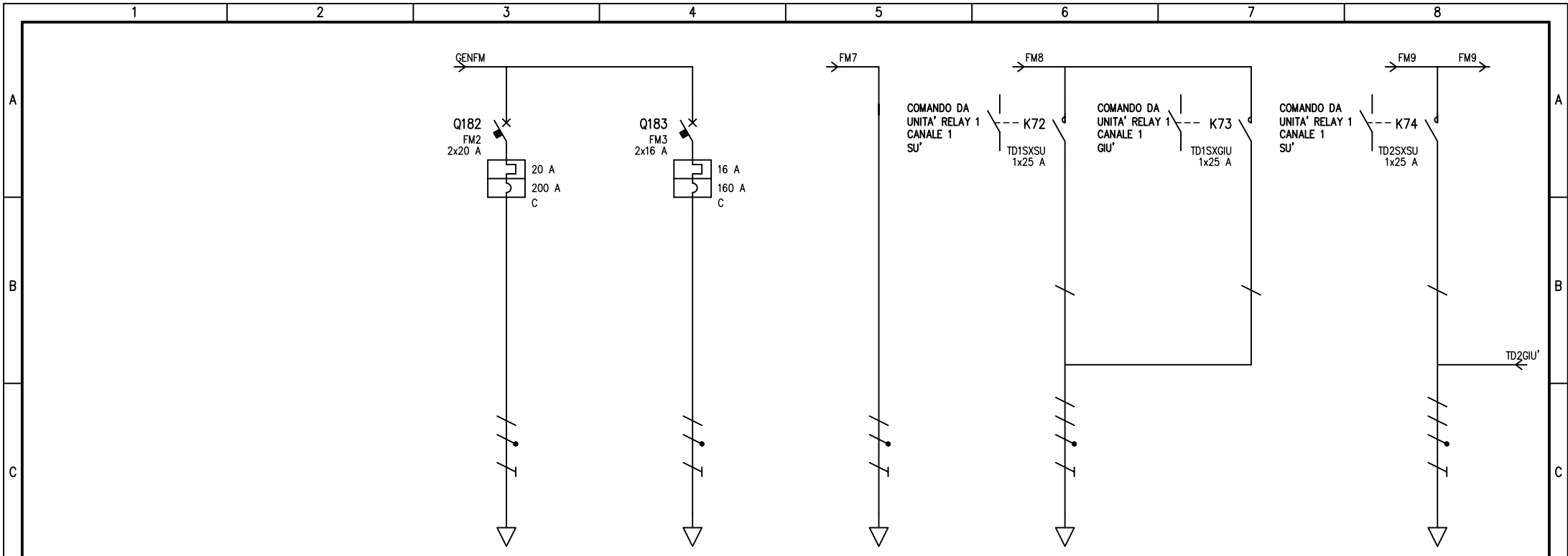




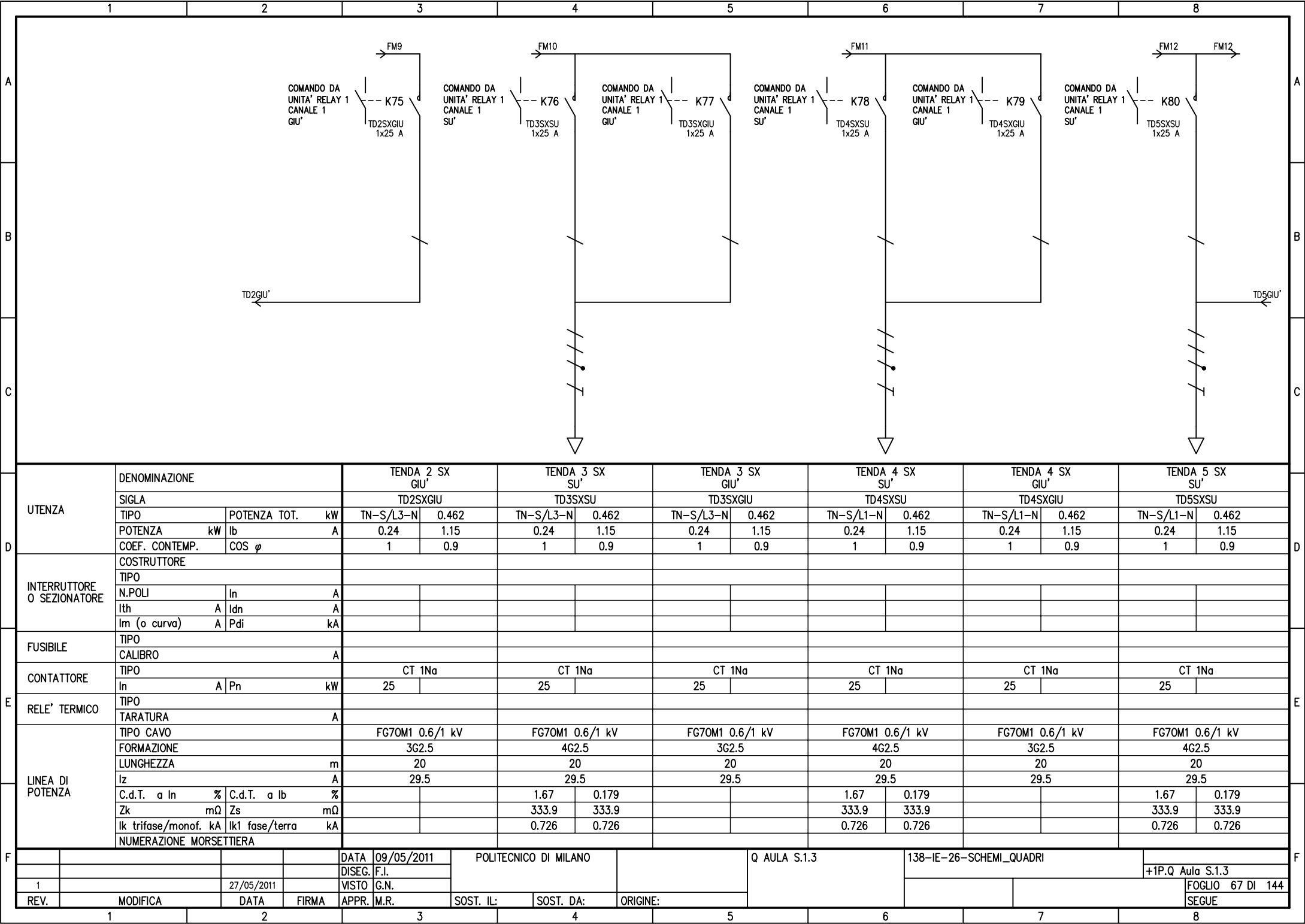


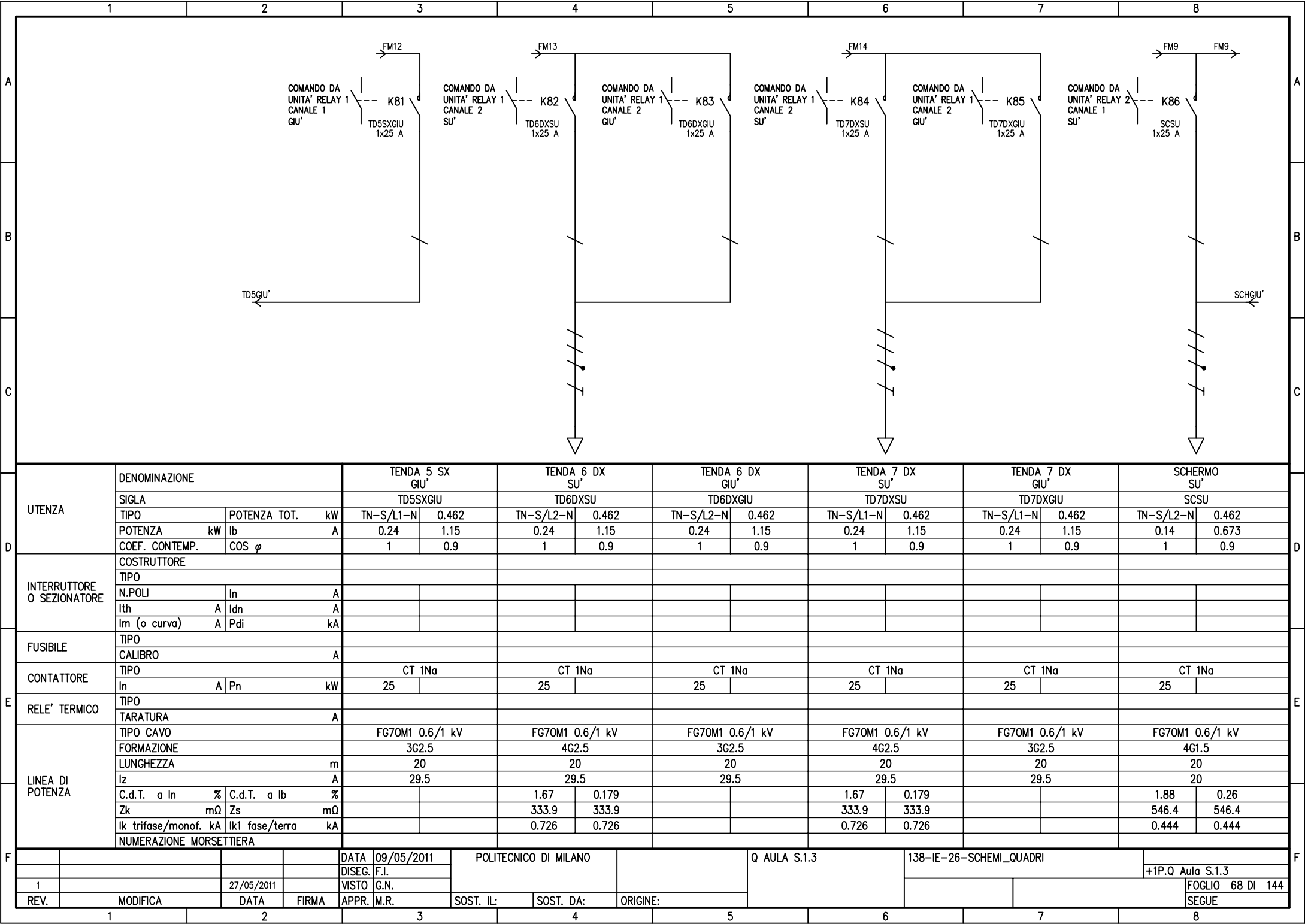


| | | | | | | | | | | | | | | | | | | | |
|-------------|-------------------------------|----------------|--------------|----------------|-----------|------------|----------------------------------|-------|----------------------------------|-----------|----------------------------------|-------|-------------------------|-------|-----------------|------------------|-----|-------|--|
| D | UTENZA | DENOMINAZIONE | | | RISERVA | | LUCE LINEA 1 VIA UNITA' 1-10V | | LUCE LINEA 2 VIA UNITA' 1-10V | | LUCE LINEA 3 VIA UNITA' 1-10V | | LUCE LAVAGNA | | PRESE BANCHI L1 | | | | |
| | | SIGLA | | | RIS | | L1 | | L2 | | L3 | | L4 | | FM1 | | | | |
| | | TIPO | POTENZA TOT. | kW | TN-S/L3-N | 5.78 | TN-S/L3-N | 1.39 | TN-S/L2-N | 2.31 | TN-S/L1-N | 2.31 | TN-S/L3-N | 1.39 | TN-S/L3-N | 3.7 | | | |
| | | POTENZA | kW | lb | A | | 0.54 | 2.6 | 0.81 | 3.9 | 1.08 | 5.19 | 0.162 | 0.779 | 2.59 | 12.5 | | | |
| | | COEF. CONTEMP. | | COS φ | | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 | | |
| | INTERRUTTORE O SEZIONATORE | COSTRUTTORE | | | | | | | | | | | | | | | | | |
| | | TIPO | | | A 0,03 | | | | | | | | | | | | | | |
| | | N.POLI | In | A | 2 | 16 | 2 | 6 | 2 | 10 | 2 | 10 | 2 | 6 | 2 | 16 | | | |
| | | lth | A | Idn | A | 16 | 0.03 | 6 | | 10 | | 10 | | 6 | | 16 | | | |
| | | lm (o curva) | A | Pdi | kA | 160 | 10 | 60 | 10 | 100 | 10 | 100 | 10 | 60 | 10 | 160 | 10 | | |
| E | FUSIBILE | TIPO | | | | | | | | | | | | | | | | | |
| | | CALIBRO | | | A | | | | | | | | | | | | | | |
| | CONTATTORE | TIPO | | | | | | | | | | | TL 2Na | | | | | | |
| | | In | A | Pn | kW | | | | | | | | 16 | | | | | | |
| | RELE' TERMICO | TIPO | | | | | | | | | | | | | | | | | |
| | | TARATURA | | | A | | | | | | | | | | | | | | |
| | LINEA DI POTENZA | TIPO CAVO | | | | | N07G9-K | | N07G9-K | | N07G9-K | | N07G9-K | | N07G9-K | | | | |
| | | FORMAZIONE | | | | | 3G2.5 | | 3G2.5 | | 3G2.5 | | 3G2.5 | | 3G2.5 | | | | |
| | | LUNGHEZZA | | | m | | 25 | | 25 | | 25 | | 25 | | 28 | | | | |
| | | Iz | | | A | | 29.5 | | 29.5 | | 29.5 | | 30 | | 21 | | | | |
| C.d.T. a In | | % | C.d.T. a lb | % | | 2.43 | 0.462 | 3.14 | 0.693 | 3.14 | 0.923 | 2.43 | 0.139 | 4.55 | 2.48 | | | | |
| Zk | | mΩ | Zs | mΩ | | 380.8 | 380.8 | 380.8 | 380.8 | 380.8 | 380.8 | 380.8 | 380.8 | 424.7 | 424.7 | | | | |
| F | Ik trifase/monof. kA | | | Ik1 fase/terra | | kA | | | | 0.637 | | 0.637 | | 0.637 | | 0.571 | | 0.571 | |
| | NUMERAZIONE MORSETTIERA | | | | | | | | | | | | | | | | | | |
| | | | | | DATA | 09/05/2011 | POLITECNICO DI MILANO | | | | Q AULA S.1.3 | | 138-IE-26-SCHEMI_QUADRI | | | | | | |
| | | | | | DISEG. | F.I. | | | | | | | | | | +1P.Q Aula S.1.3 | | | |
| 1 | | | 27/05/2011 | | VISTO | G.N. | | | | | | | | | | FOGLIO 65 DI 144 | | | |
| REV. | MODIFICA | | | | DATA | FIRMA | APPR. | M.R. | SOST. IL: | SOST. DA: | ORIGINE: | | | SEGUE | | | | | |
| 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | | | | |



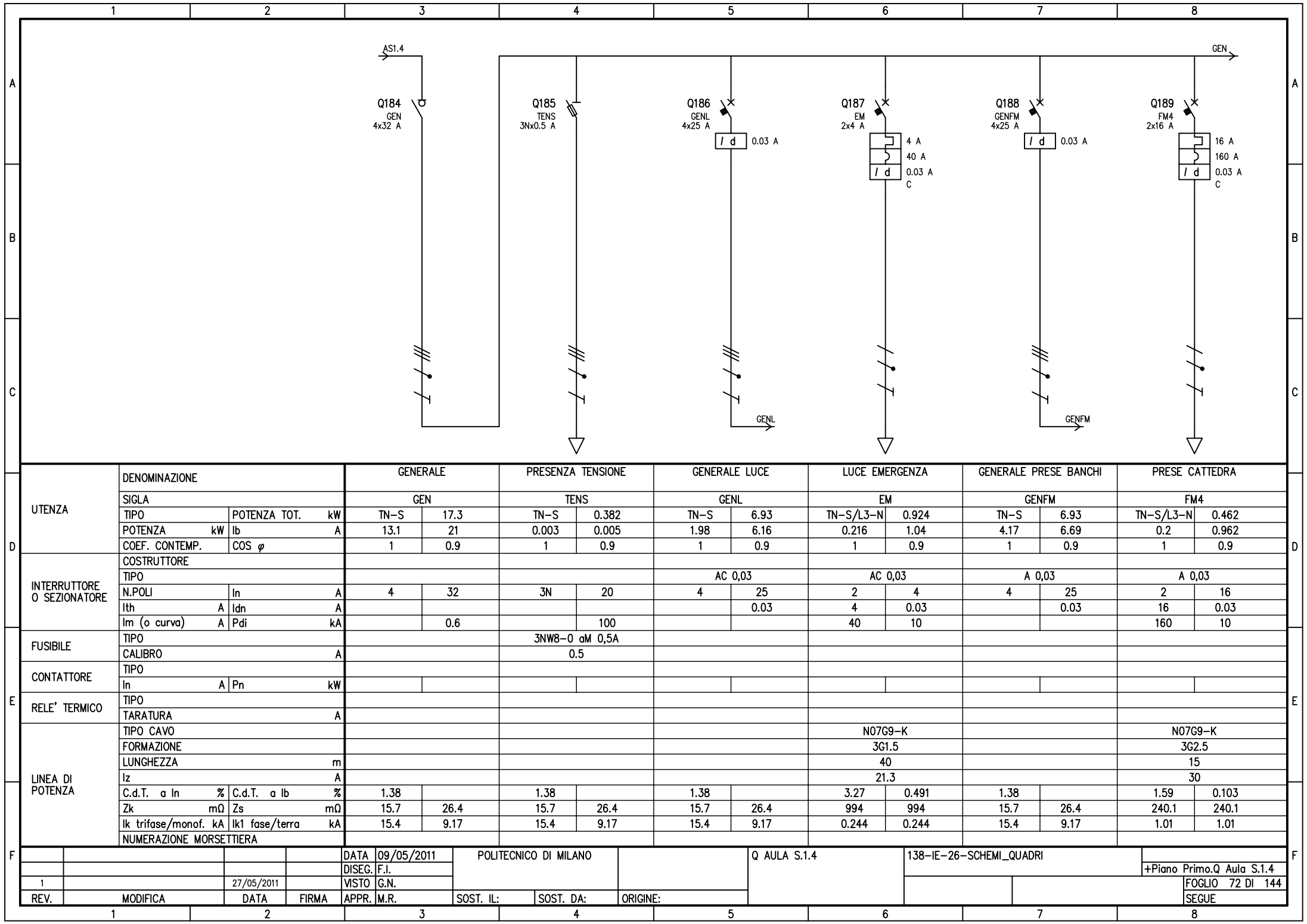
| | | | | | | | | | | | | | | | | | | |
|-------------|----------------------------|----------------|-------------------|-----------------|-------|-----------------|------------|-----------------------|-----------|-----------------|----------|-------------------|-------|-------------------------|-------|------------------|---|--|
| D | UTENZA | DENOMINAZIONE | | PRESE BANCHI L2 | | PRESE BANCHI L3 | | PRESE SERVIZIO | | TENDA 1 SX SU' | | TENDA 1 SX GIU' | | TENDA 2 SX SU' | | | | |
| | | SIGLA | | FM2 | | FM3 | | AMPLI | | TD1SXSU | | TD1SXGIU | | TD2SXSU | | | | |
| | | TIPO | POTENZA TOT. kW | TN-S/L2-N | 4.62 | TN-S/L1-N | 3.7 | TN-S/L3-N | 3.7 | TN-S/L2-N | 0.462 | TN-S/L2-N | 0.462 | TN-S/L3-N | 0.462 | | | |
| | | POTENZA kW | lb | 3.22 | 15.5 | 2.59 | 12.5 | 0.01 | 0.048 | 0.24 | 1.15 | 0.24 | 1.15 | 0.24 | 1.15 | | | |
| | | COEF. CONTEMP. | COS φ | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 | | | |
| | INTERRUTTORE O SEZIONATORE | CONSTRUTTORE | | | | | | | | | | | | | | | | |
| | | TIPO | | | | | | | | | | | | | | | | |
| | | N.POLI | In | A | 2 | 20 | 2 | 16 | | | | | | | | | | |
| | | Ith | A | Idn | A | 20 | | 16 | | | | | | | | | | |
| | | Im (o curva) | A | Pdi | kA | 200 | 10 | 160 | 10 | | | | | | | | | |
| E | FUSIBILE | TIPO | | | | | | | | | | | | | | | | |
| | | CALIBRO | | A | | | | | | | | | | | | | | |
| | CONTATTORE | TIPO | | | | | | | | CT 1Na | | CT 1Na | | CT 1Na | | | | |
| | | In | A | Pn | kW | | | | | 25 | | 25 | | 25 | | | | |
| | RELE' TERMICO | TIPO | | | | | | | | | | | | | | | | |
| | | TARATURA | | A | | | | | | | | | | | | | | |
| | LINEA DI POTENZA | TIPO CAVO | | N07G9-K | | N07G9-K | | N07G9-K | | FG70M1 0.6/1 kV | | FG70M1 0.6/1 kV | | FG70M1 0.6/1 kV | | | | |
| | | FORMAZIONE | | 3G4 | | 3G2.5 | | 3G2.5 | | 4G2.5 | | 4G2.5 PE: TD1SXSU | | 4G2.5 | | | | |
| | | LUNGHEZZA | | m | | 28 | | 28 | | 7 | | 20 | | 20 | | | | |
| | | Iz | | A | | 40 | | 30 | | 25 | | 27.7 | | 29.5 | | | | |
| C.d.T. a In | | % | C.d.T. a lb | % | 3.86 | 1.93 | 4.55 | 2.48 | 2.16 | 0.002 | 1.67 | 0.268 | | 1.67 | 0.179 | | | |
| Zk | | mΩ | Zs | mΩ | 271.5 | 271.5 | 424.7 | 424.7 | 118.1 | 118.1 | 333.9 | 333.9 | | 333.9 | 333.9 | | | |
| | Ik trifase/monof. kA | | Ik1 fase/terra kA | | 0.893 | | 0.893 | | 0.571 | | 0.571 | | 2.05 | | 0.726 | | | |
| | NUMERAZIONE MORSETTIERA | | | | | | | | | | | | | | | | | |
| F | | | | | | DATA | 09/05/2011 | POLITECNICO DI MILANO | | | | Q AULA S.1.3 | | 138-IE-26-SCHEMI_QUADRI | | | | |
| | | | | | | DISEG. | F.I. | | | | | | | | | +1P.Q Aula S.1.3 | | |
| | 1 | | | 27/05/2011 | | VISTO | G.N. | | | | | | | | | | | |
| | REV. | MODIFICA | | | DATA | FIRMA | APPR. | M.R. | SOST. IL: | SOST. DA: | ORIGINE: | | | | | FOGLIO 66 DI 144 | | |
| | | 1 | | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | |

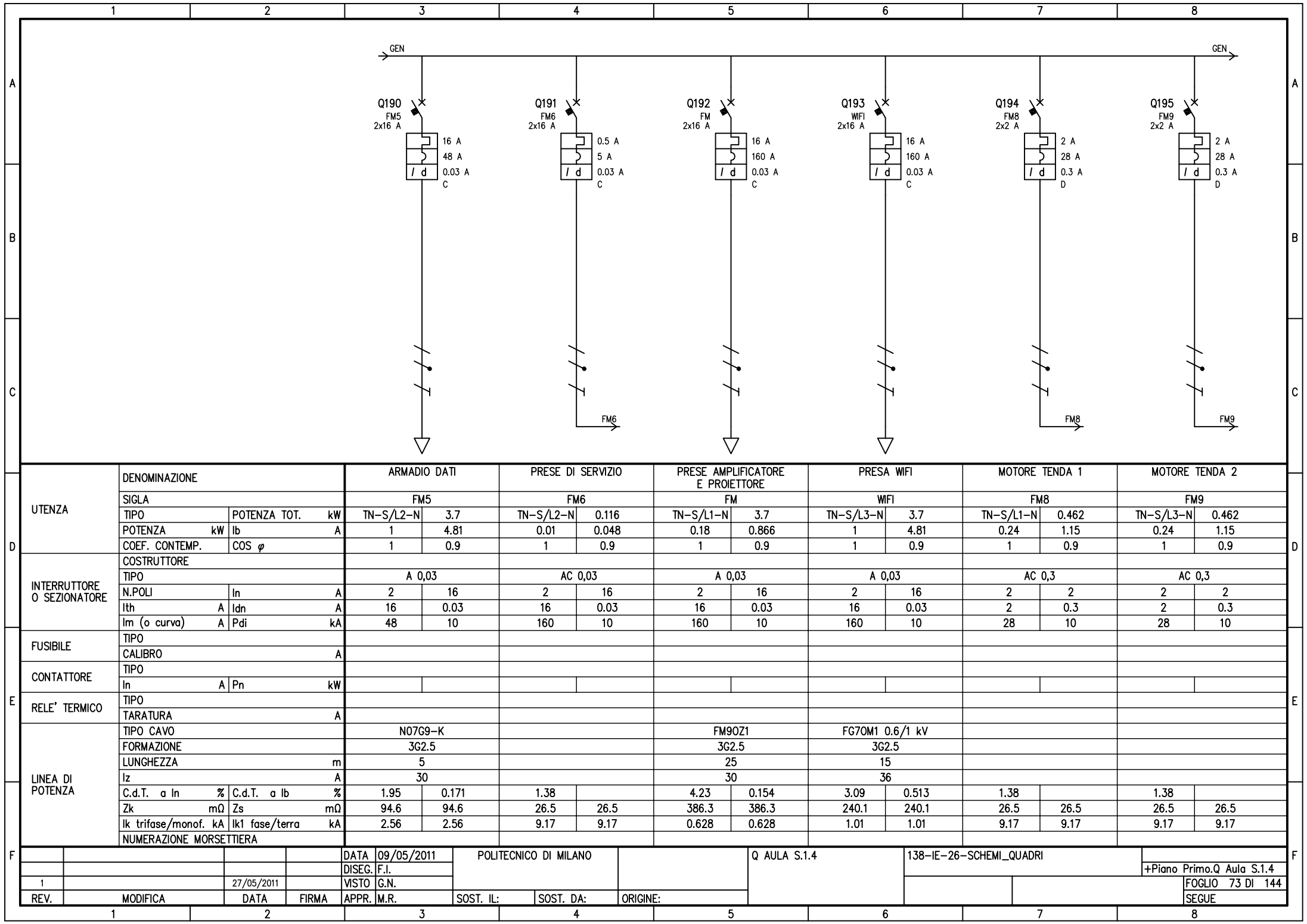


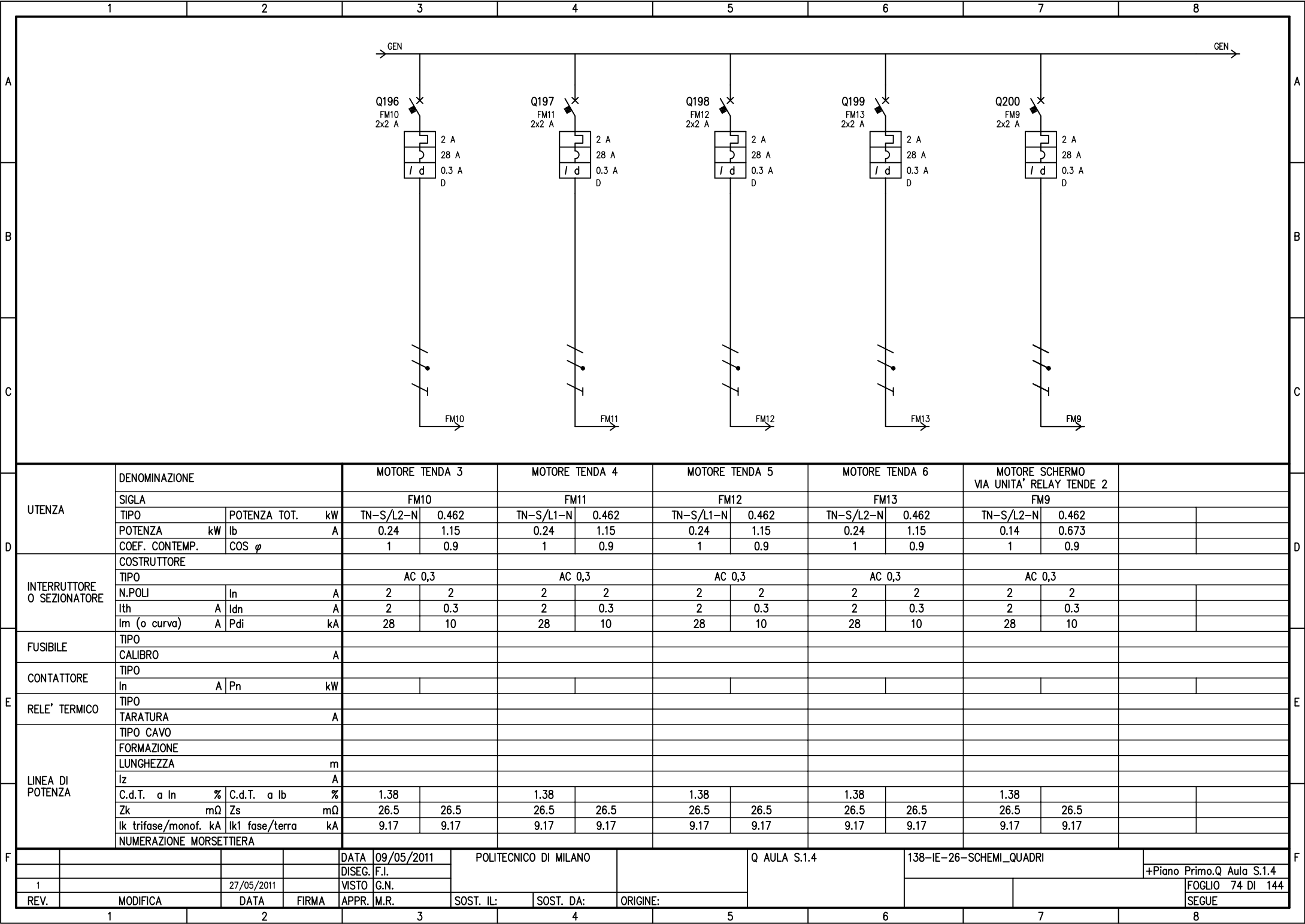


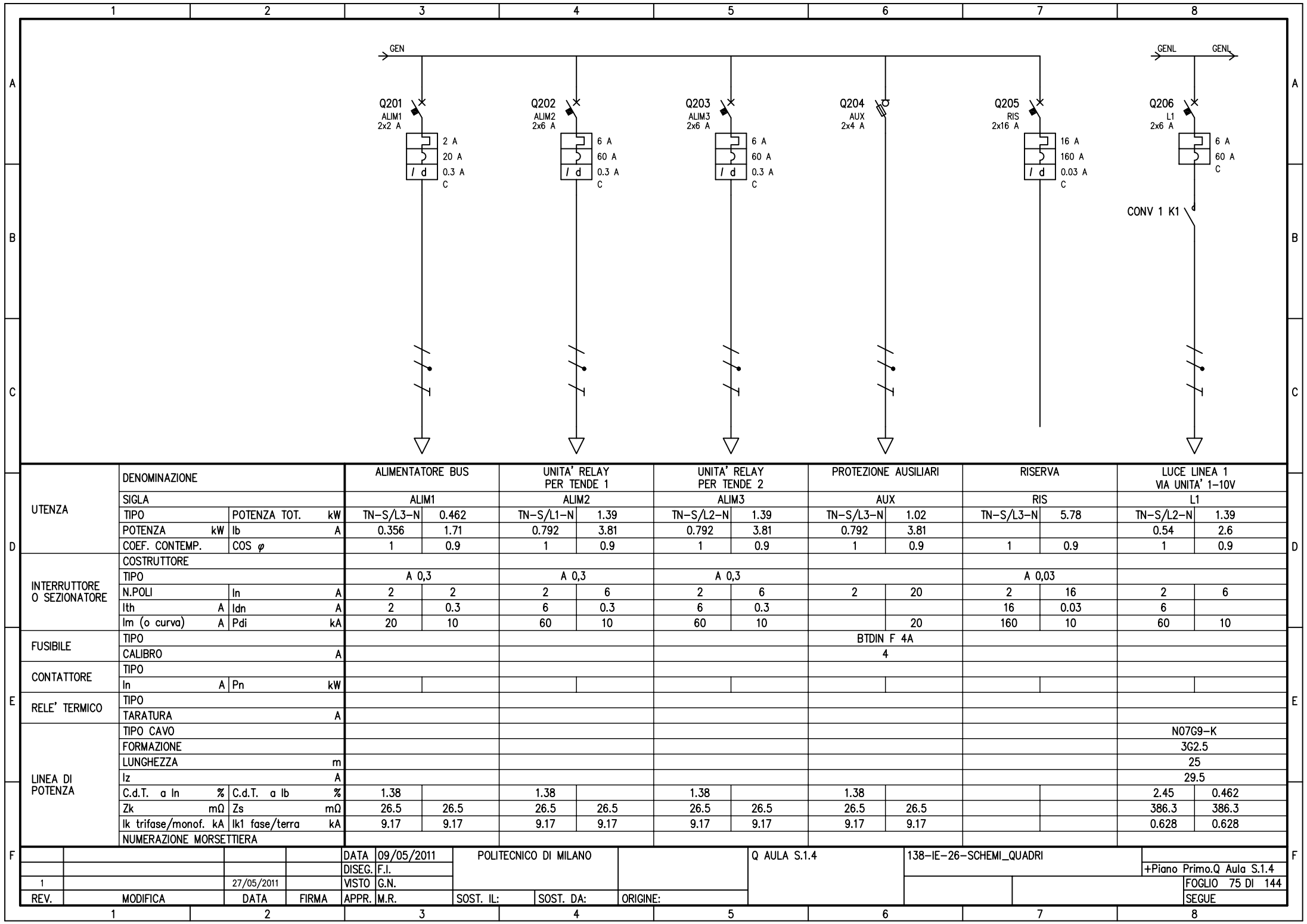
| | | | | | | | | | | | | | | | |
|----------------------|--|----------|-------------------------|----------------|-----------------|------------|-----------------------|-----------|--------------|----------|-------------------------|--|------------------|---|--|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | | | | |
| A | <div><div>FM9</div><div>K87</div><div>SCGIU 1x25 A</div><div>SCHGIU'</div></div> | | | | | | | | A | | | | | | |
| B | | | | | | | | | B | | | | | | |
| C | | | | | | | | | C | | | | | | |
| D | UTENZA | | DENOMINAZIONE | | SCHERMO GIU' | | | | | | | | | | |
| SIGLA | | | SCGIU | | | | | | | | | | | | |
| TIPO | | | POTENZA TOT. | kW | TN-S/L2-N | 0.462 | | | | | | | | | |
| POTENZA | | | kW | lb | A | 0.14 | 0.673 | | | | | | | | |
| | | | COEF. CONTEMP. | | COS φ | 1 | 0.9 | | | | | | | | |
| | INTERRUTTORE O SEZIONATORE | | COSTRUTTORE | | | | | | | | | | | | |
| TIPO | | | | | | | | | | | | | | | |
| N.POLI | | | In | A | | | | | | | | | | | |
| Ith | | | A | Idn | A | | | | | | | | | | |
| | | | Im (o curva) | | A | Pdi | kA | | | | | | | | |
| | FUSIBILE | | TIPO | | | | | | | | | | | | |
| CALIBRO | | | A | | | | | | | | | | | | |
| | CONTATTORE | | TIPO | | CT 1Na | | | | | | | | | | |
| In | | | A | Pn | kW | 25 | | | | | | | | | |
| | RELE' TERMICO | | TIPO | | | | | | | | | | | | |
| TARATURA | | | A | | | | | | | | | | | | |
| | LINEA DI POTENZA | | TIPO CAVO | | FG70M1 0.6/1 kV | | | | | | | | | | |
| FORMAZIONE | | | 4G1.5 PE: SCSU | | | | | | | | | | | | |
| LUNGHEZZA | | | m | | 20 | | | | | | | | | | |
| Iz | | | A | | 20 | | | | | | | | | | |
| C.d.T. a In | | | % | C.d.T. a Ib | % | | | | | | | | | | |
| Zk | | | mΩ | Zs | mΩ | | | | | | | | | | |
| Ik trifase/monof. kA | | | | Ik1 fase/terra | kA | | | | | | | | | | |
| F | | | NUMERAZIONE MORSETTIERA | | | | | | | | | | | | |
| | | | | | DATA | 09/05/2011 | POLITECNICO DI MILANO | | Q AULA S.1.3 | | 138-IE-26-SCHEMI_QUADRI | | | | |
| | | | | | DISEG. | F.I. | | | | | | | +1P.Q Aula S.1.3 | | |
| | 1 | | | 27/05/2011 | VISTO | G.N. | | | | | | | FOGLIO 69 DI 144 | | |
| | REV. | MODIFICA | | DATA | FIRMA | APPR. | M.R. | SOST. IL: | SOST. DA: | ORIGINE: | | | SEGUE | | |
| | 1 | | | 2 | | | 3 | | | 5 | | | 7 | 8 | |

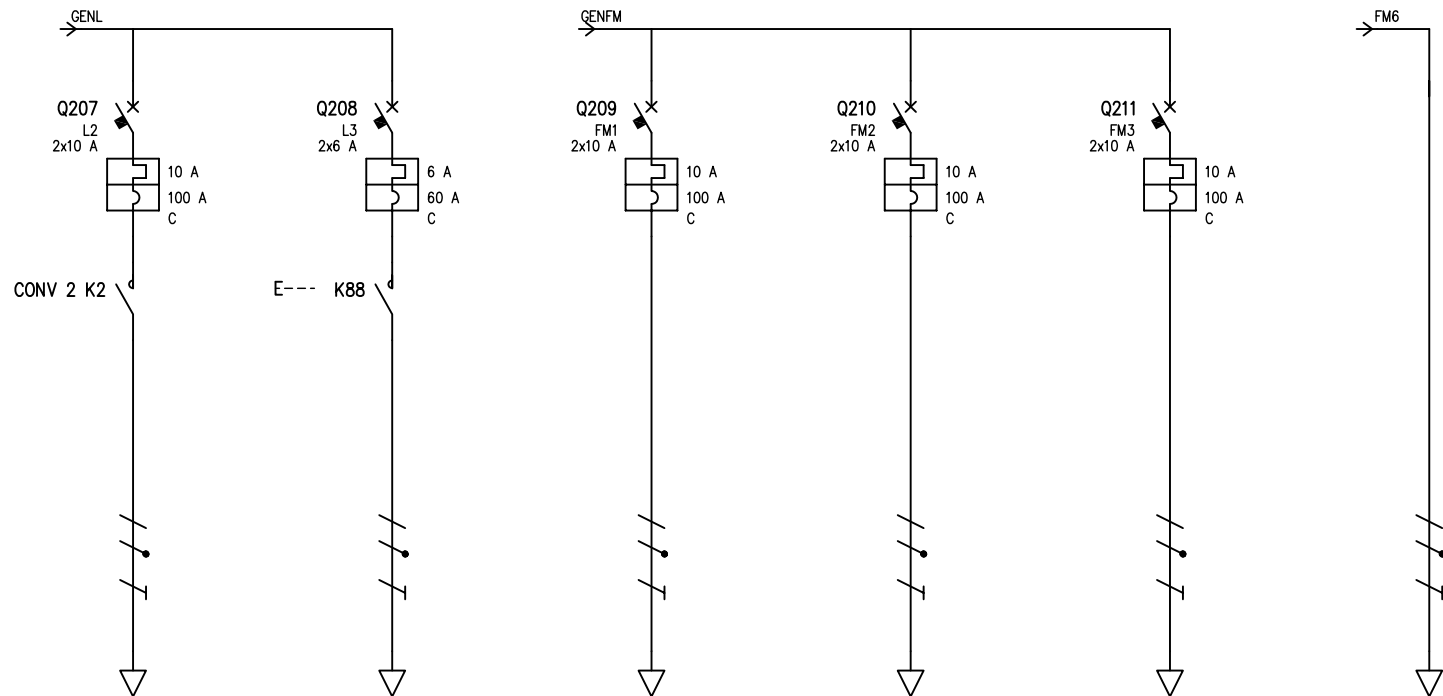
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|---|------------------------------|----------|--------------|--------|------------|-----------------------|-----------|-----------|--------------|-------------------------|--|---------------------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| A | | | | | | | | | A | | | |
| B | Potenza | | 13.1 kW | | | | | | | | | |
| | Caduta di tensione (Tot. Ib) | | 1.15 % | | | | | | | | | |
| | Corrente di guasto (Ikmax) | | 15.4 kA | | | | | | | | | |
| | Zona | | Piano Primo | | | | | | | | | |
| | Quadro | | Q Aula S.1.4 | | | | | | | | | |
| C | | | | | | | | | C | | | |
| D | | | | | | | | | D | | | |
| E | | | | | | | | | E | | | |
| F | | | | DATA | 09/05/2011 | POLITECNICO DI MILANO | | | Q AULA S.1.4 | 138-IE-26-SCHEMI_QUADRI | | |
| | | | | DISEG. | F.I. | | | | | | | +Piano Primo.Q Aula S.1.4 |
| | 1 | | 27/05/2011 | VISTO | G.N. | | | | | | | FOGLIO 71 DI 144 |
| | REV. | MODIFICA | DATA | FIRMA | APPR. | M.R. | SOST. IL: | SOST. DA: | ORIGINE: | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |



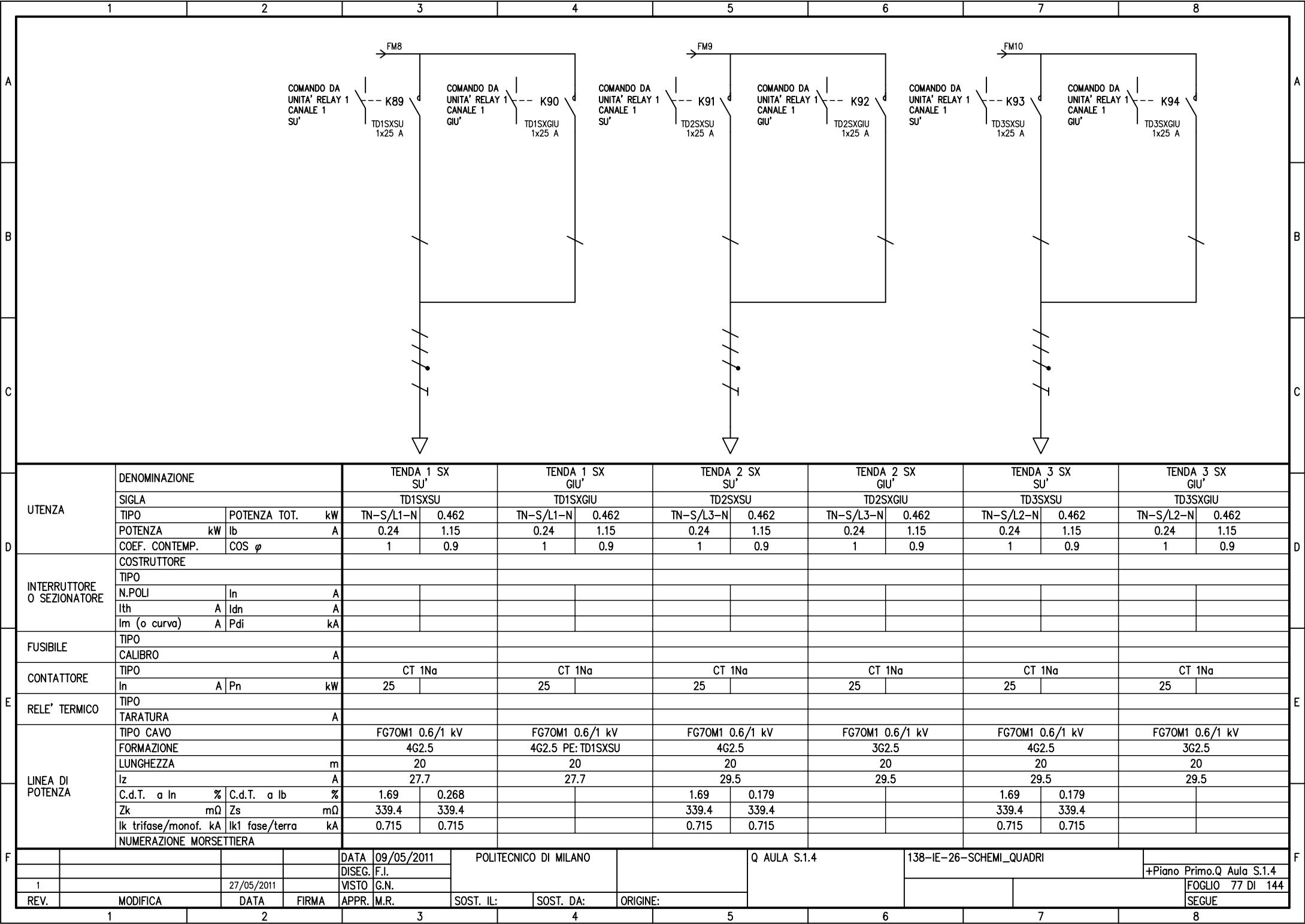


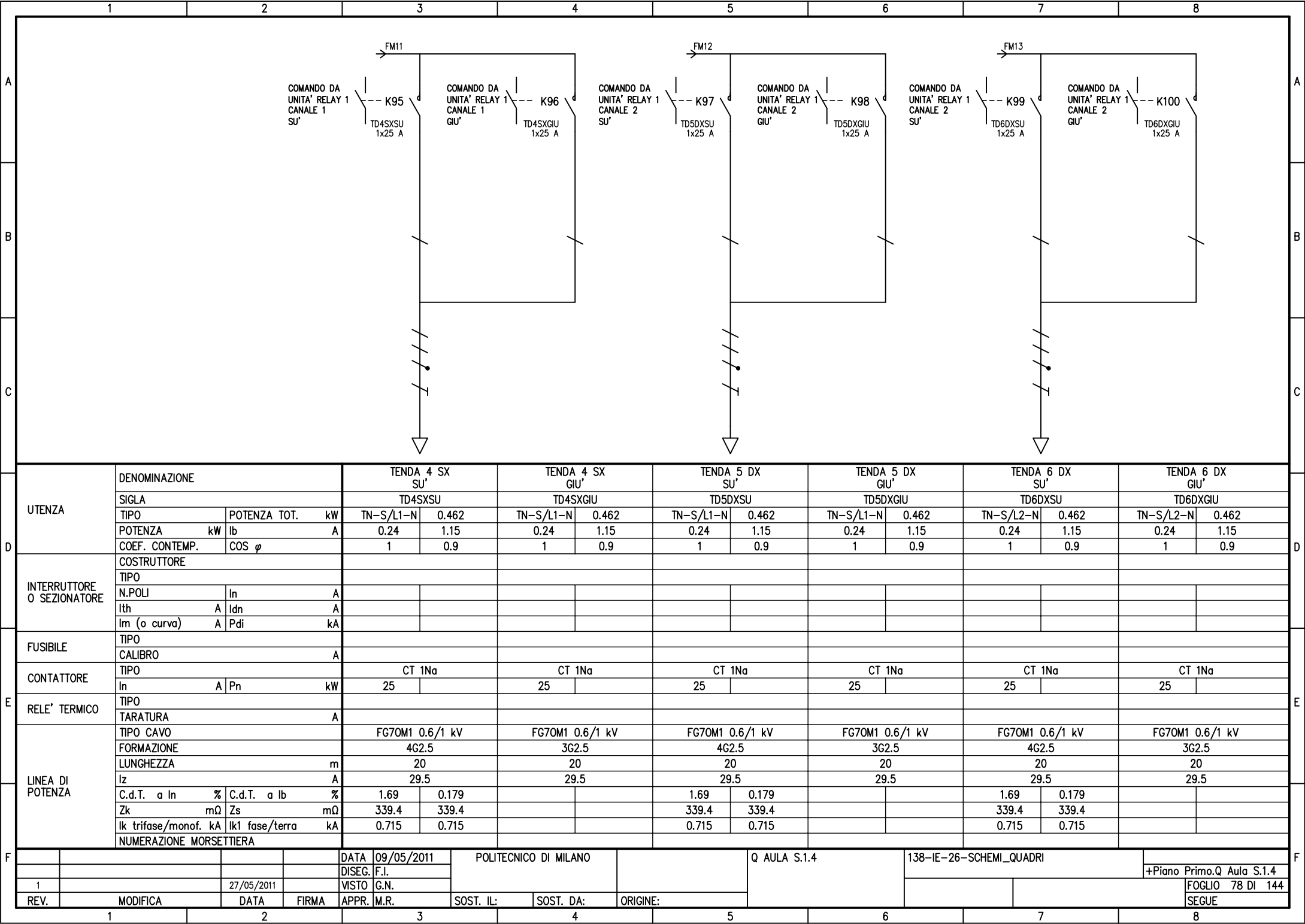


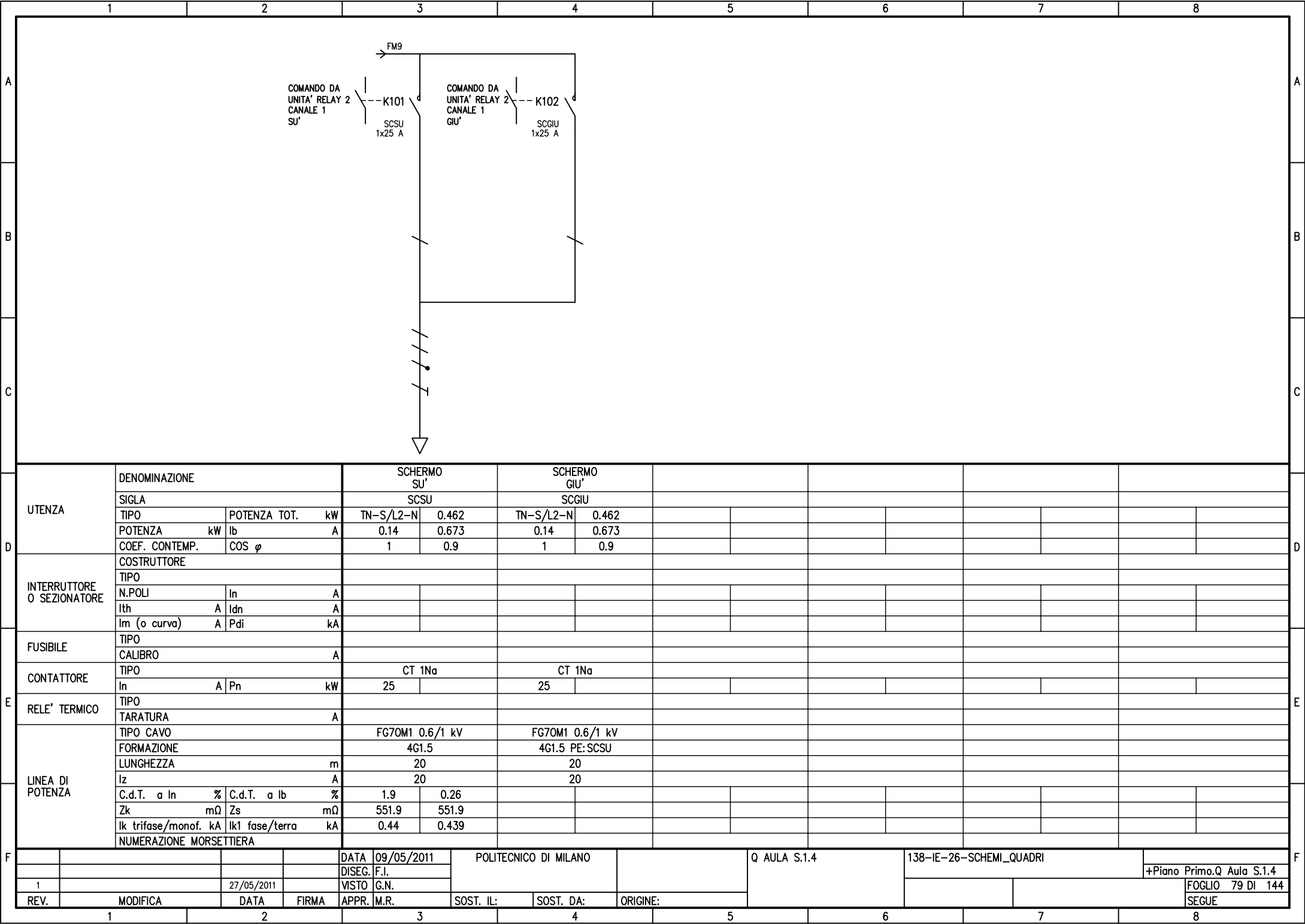




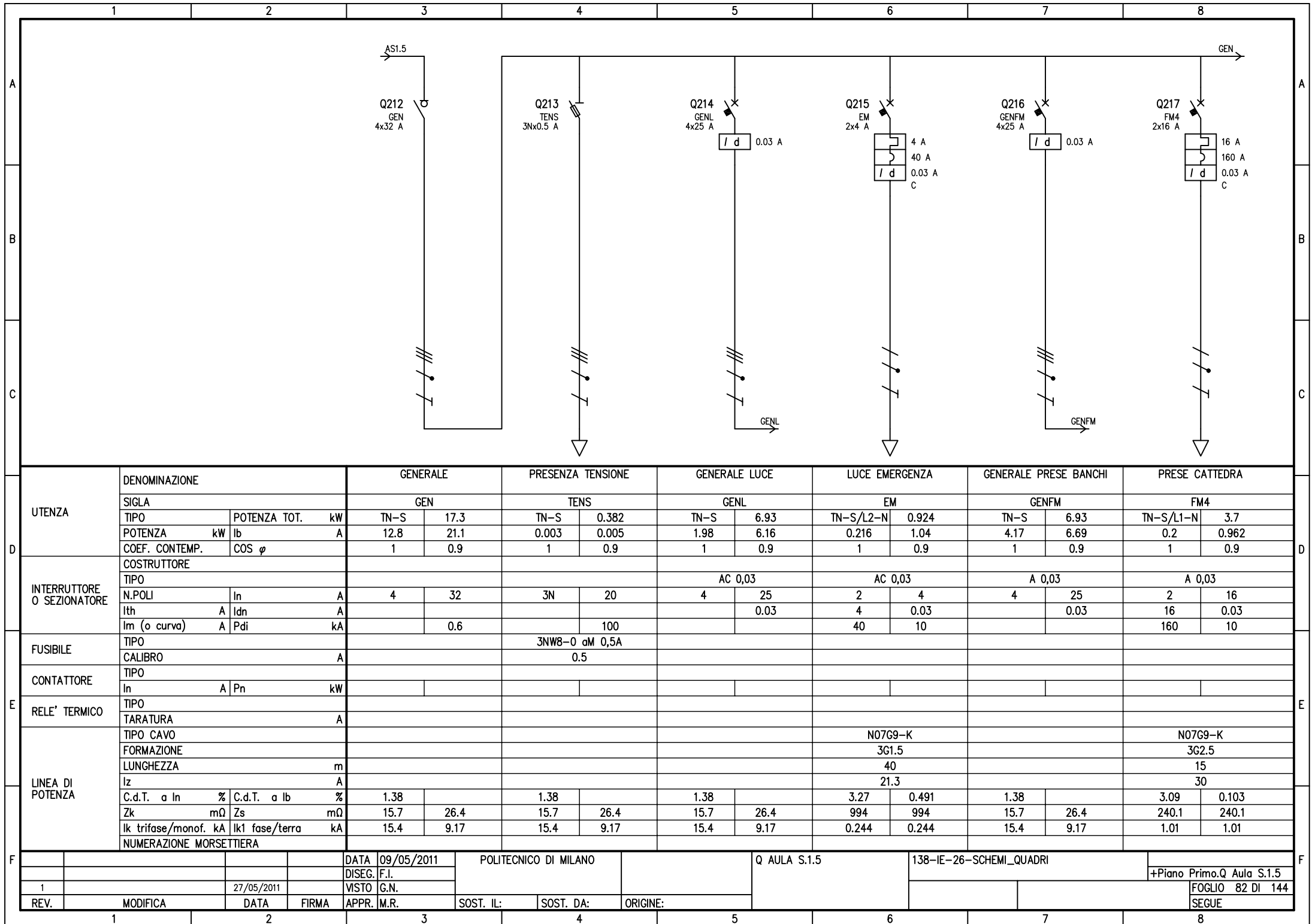
| UTENZA | | DENOMINAZIONE | | LUCE LINEA 2 VIA UNITA' 1-10V | | LUCE LAVAGNA | | PRESE BANCHI L1 | | PRESE BANCHI L2 | | PRESE BANCHI L3 | | PRESE SERVIZIO | |
|-------------------------------|----------|-------------------------|-------------------|----------------------------------|------------|-----------------------|-----------|-----------------|-------|-----------------|-------|-------------------------|---------------------------|----------------|---------------------------|
| | | SIGLA | | L2 | | L3 | | FM1 | | FM2 | | FM3 | | AMPLI | |
| | | TIPO | POTENZA TOT. kW | TN-S/L1-N | 2.31 | TN-S/L3-N | 1.39 | TN-S/L1-N | 2.31 | TN-S/L3-N | 2.31 | TN-S/L2-N | 2.31 | TN-S/L2-N | 0.116 |
| | | POTENZA kW | lb | 1.28 | 6.16 | 0.162 | 0.779 | 1.39 | 6.69 | 1.39 | 6.69 | 1.39 | 6.69 | 0.01 | 0.048 |
| COEF. CONTEMP. | | COS φ | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 | |
| INTERRUTTORE O SEZIONATORE | | COSTRUTTORE | | | | | | | | | | | | | |
| | | TIPO | | | | | | | | | | | | | |
| | | N.POLi | In A | 2 | 10 | 2 | 6 | 2 | 10 | 2 | 10 | 2 | 10 | | |
| | | lth A | Idn A | 10 | | 6 | | 10 | | 10 | | 10 | | | |
| Im (o curva) A | | Pdi kA | 100 | 10 | 60 | 10 | 100 | 10 | 100 | 10 | 100 | 10 | | | |
| FUSIBILE | | TIPO | | | | | | | | | | | | | |
| | | CALIBRO | | A | | | | | | | | | | | |
| CONTATTORE | | TIPO | | | | TL 2Na | | | | | | | | | |
| | | In A | Pn kW | | | 16 | | | | | | | | | |
| RELE' TERMICO | | TIPO | | | | | | | | | | | | | |
| | | TARATURA | | A | | | | | | | | | | | |
| LINEA DI POTENZA | | TIPO CAVO | | N07G9-K | | N07G9-K | | N07G9-K | | N07G9-K | | N07G9-K | | N07G9-K | |
| | | FORMAZIONE | | 3G2.5 | | 3G2.5 | | 3G2.5 | | 3G2.5 | | 3G2.5 | | 3G2.5 | |
| | | LUNGHEZZA m | | 25 | | 25 | | 28 | | 28 | | 28 | | 7 | |
| | | Iz A | | 29.5 | | 30 | | 21 | | 30 | | 30 | | 25 | |
| | | C.d.T. a In % | C.d.T. a lb % | 3.16 | 1.09 | 2.45 | 0.139 | 3.38 | 1.33 | 3.38 | 1.33 | 3.38 | 1.33 | 1.41 | 0.002 |
| | | Zk mΩ | Zs mΩ | 386.3 | 386.3 | 386.3 | 386.3 | 430.2 | 430.2 | 430.2 | 430.2 | 430.2 | 430.2 | 123.5 | 123.5 |
| | | Ik trifase/monof. kA | Ik1 fase/terra kA | 0.628 | 0.628 | 0.628 | 0.628 | 0.564 | 0.564 | 0.564 | 0.564 | 0.564 | 0.564 | 1.96 | 1.96 |
| | | NUMERAZIONE MORSETTIERA | | | | | | | | | | | | | |
| | | | | DATA | 09/05/2011 | POLITECNICO DI MILANO | | | | Q AULA S.1.4 | | 138-IE-26-SCHEMI_QUADRI | | | |
| | | | | DISEG. | F.I. | | | | | | | | | | +Piano Primo.Q Aula S.1.4 |
| 1 | | 27/05/2011 | | VISTO | G.N. | | | | | | | | | | |
| REV. | MODIFICA | DATA | FIRMA | APPR. | M.R. | SOST. IL: | SOST. DA: | ORIGINE: | | | | | FOGLIO 76 DI 144 SEGUE | | |

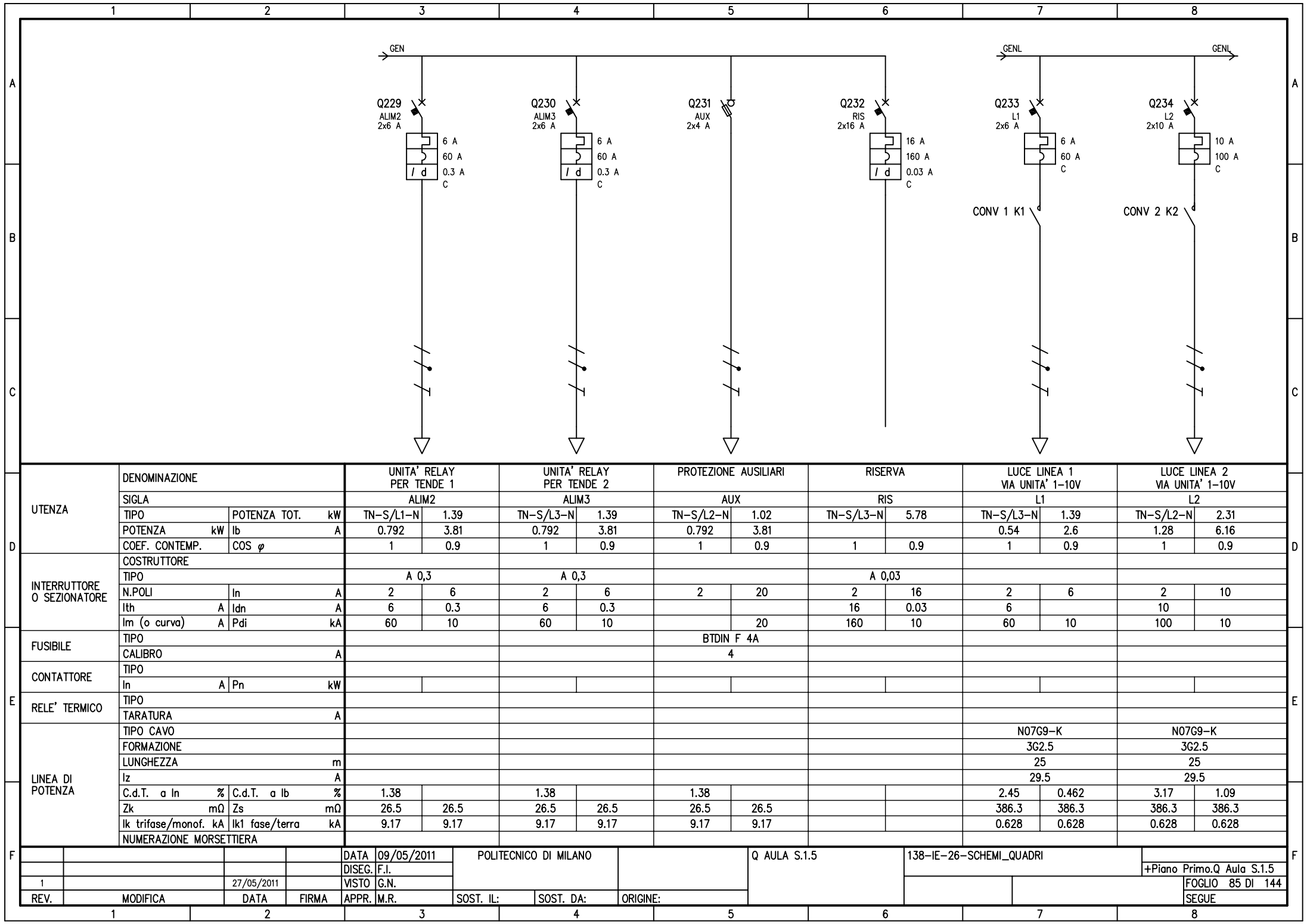


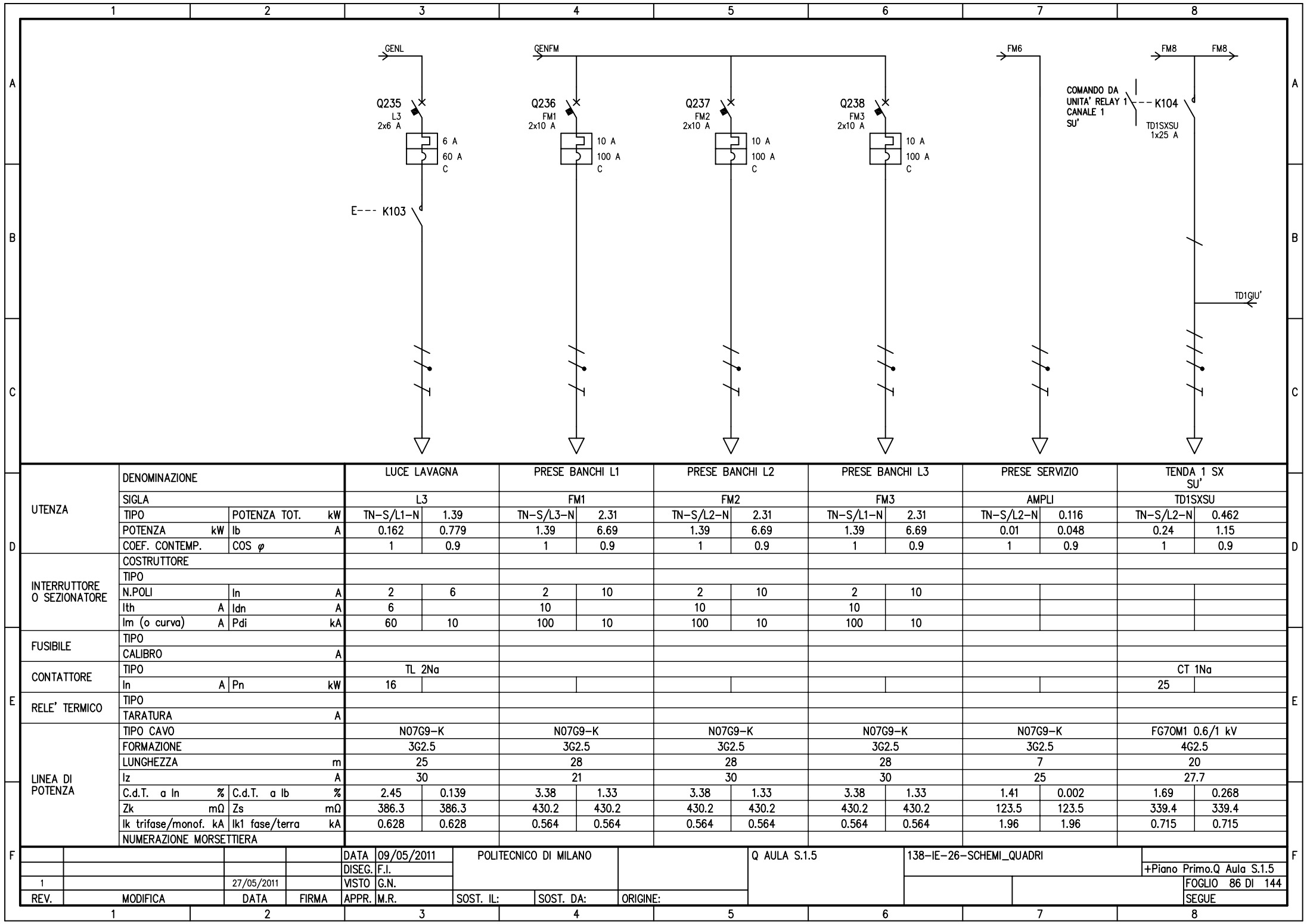


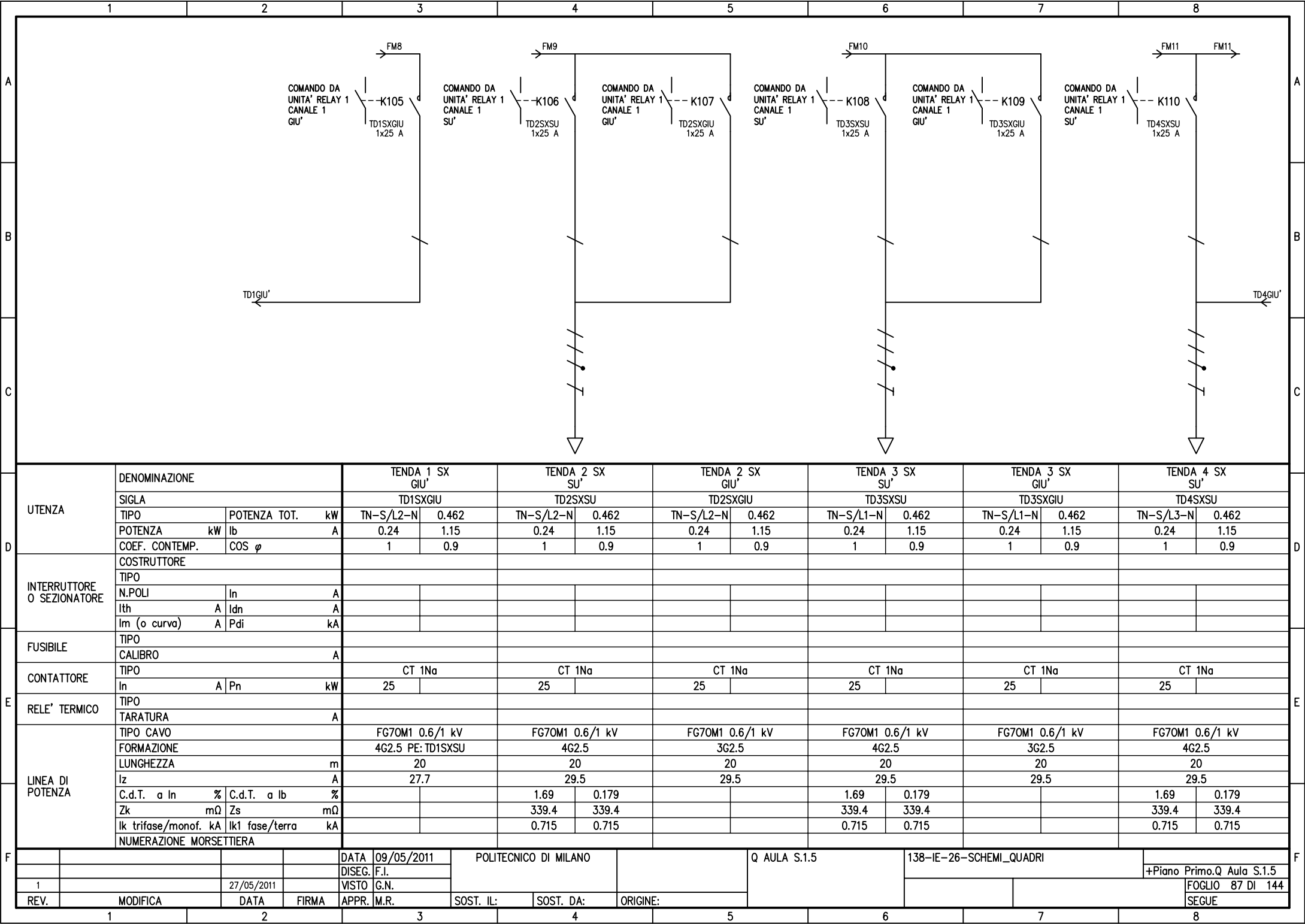


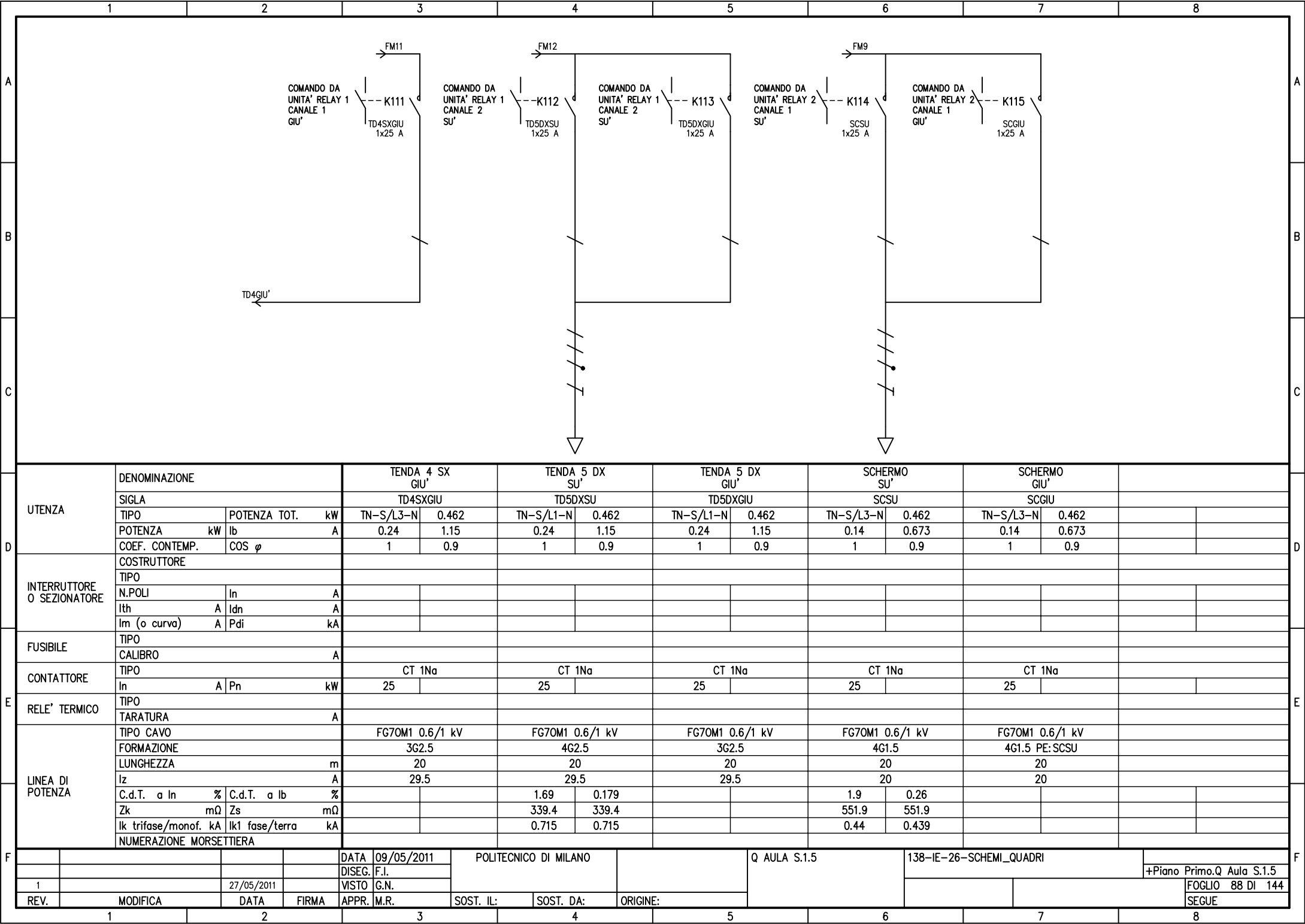
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|---|------------------------------|----------|--------------|--------|------------|-----------------------|-----------|-----------|--------------|-------------------------|--|---------------------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| A | | | | | | | | | A | | | |
| B | Potenza | | 12.8 kW | | | | | | | | | |
| | Caduta di tensione (Tot. Ib) | | 1.15 % | | | | | | | | | |
| | Corrente di guasto (Ikmax) | | 15.4 kA | | | | | | | | | |
| | Zona | | Piano Primo | | | | | | | | | |
| | Quadro | | Q Aula S.1.5 | | | | | | | | | |
| C | | | | | | | | | C | | | |
| D | | | | | | | | | D | | | |
| E | | | | | | | | | E | | | |
| F | | | | DATA | 09/05/2011 | POLITECNICO DI MILANO | | | Q AULA S.1.5 | 138-IE-26-SCHEMI_QUADRI | | |
| | | | | DISEG. | F.I. | | | | | | | +Piano Primo.Q Aula S.1.5 |
| | 1 | | 27/05/2011 | VISTO | G.N. | | | | | | | FOGLIO 81 DI 144 |
| | REV. | MODIFICA | DATA | FIRMA | APPR. | M.R. | SOST. IL: | SOST. DA: | ORIGINE: | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |



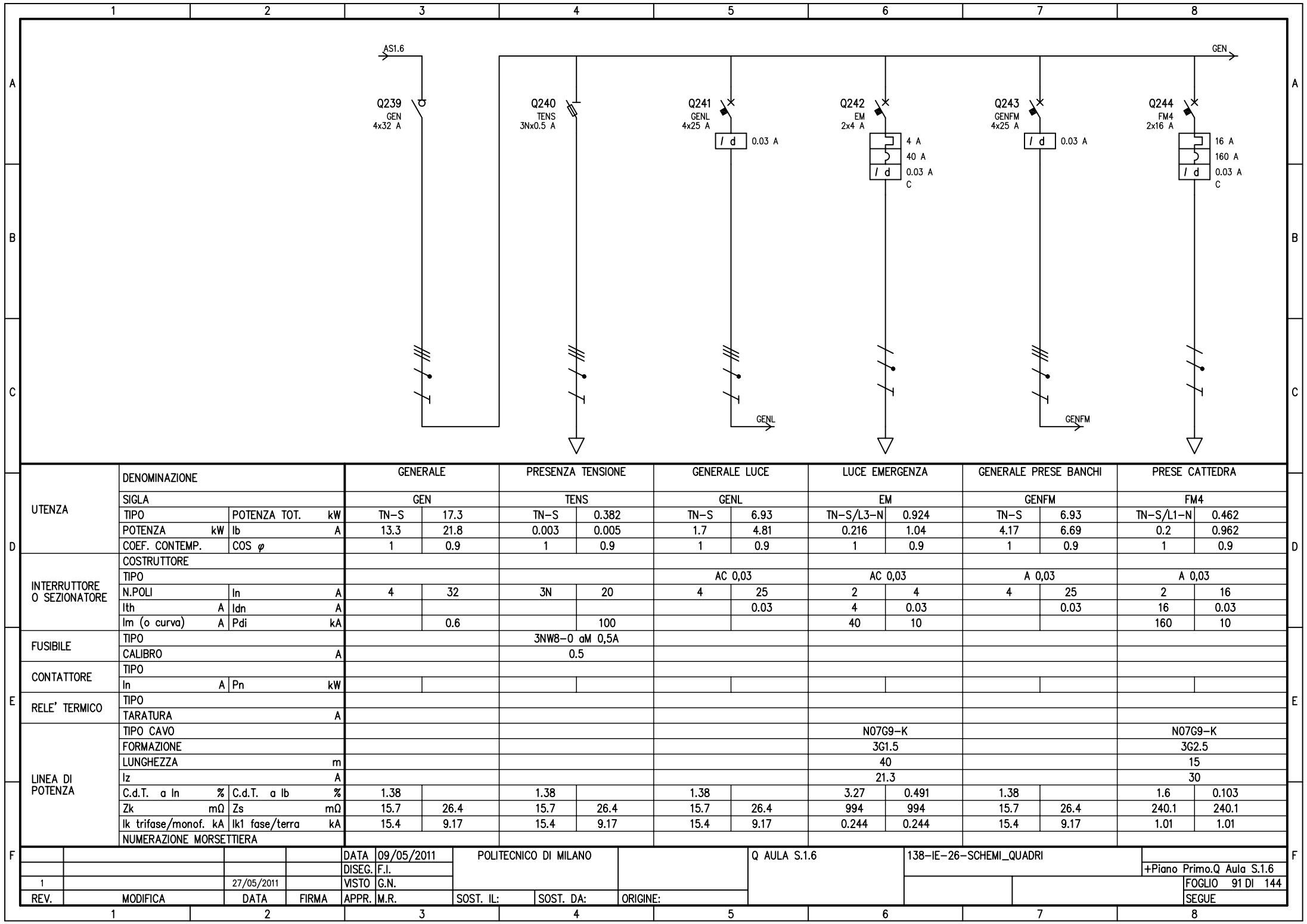


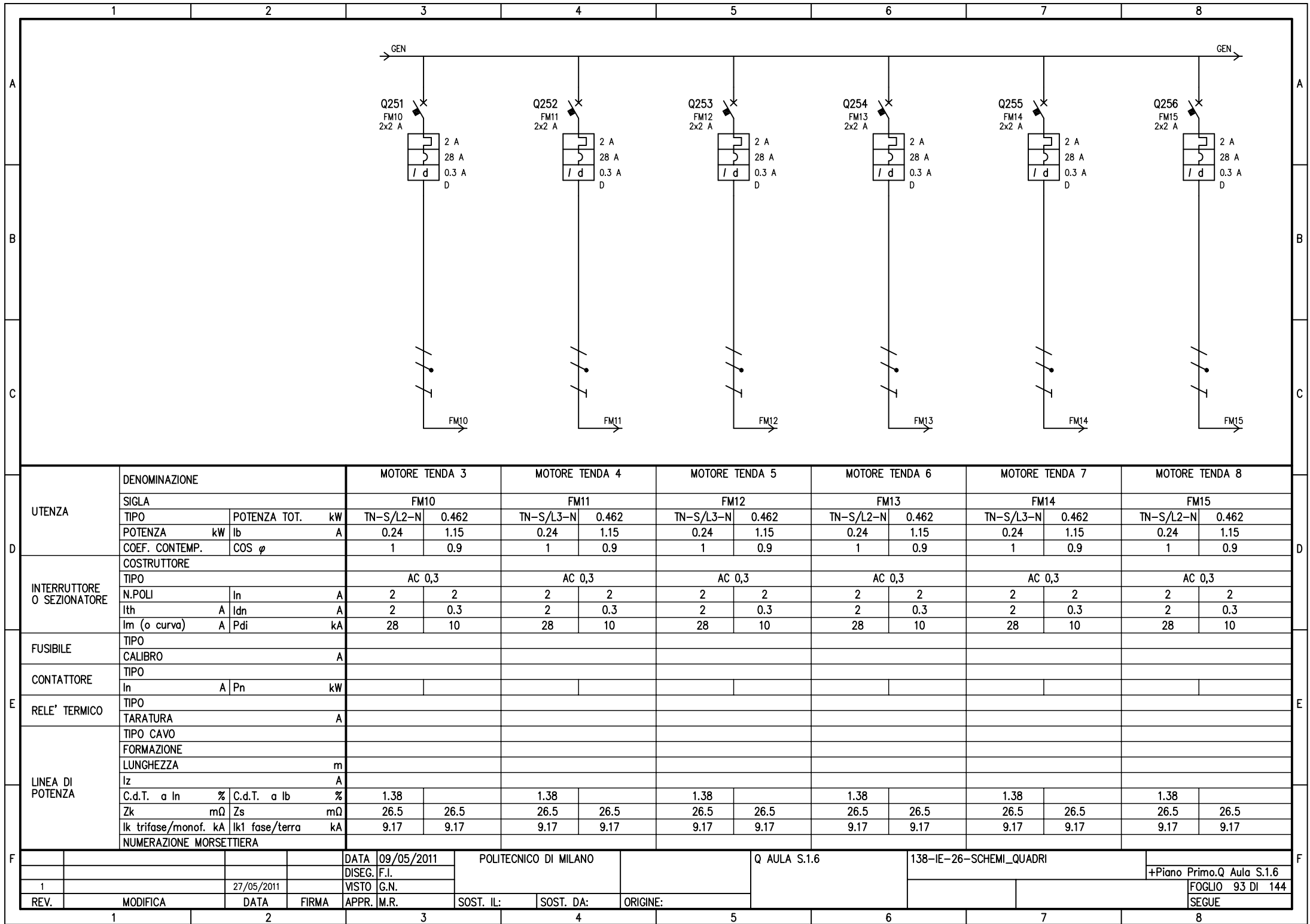


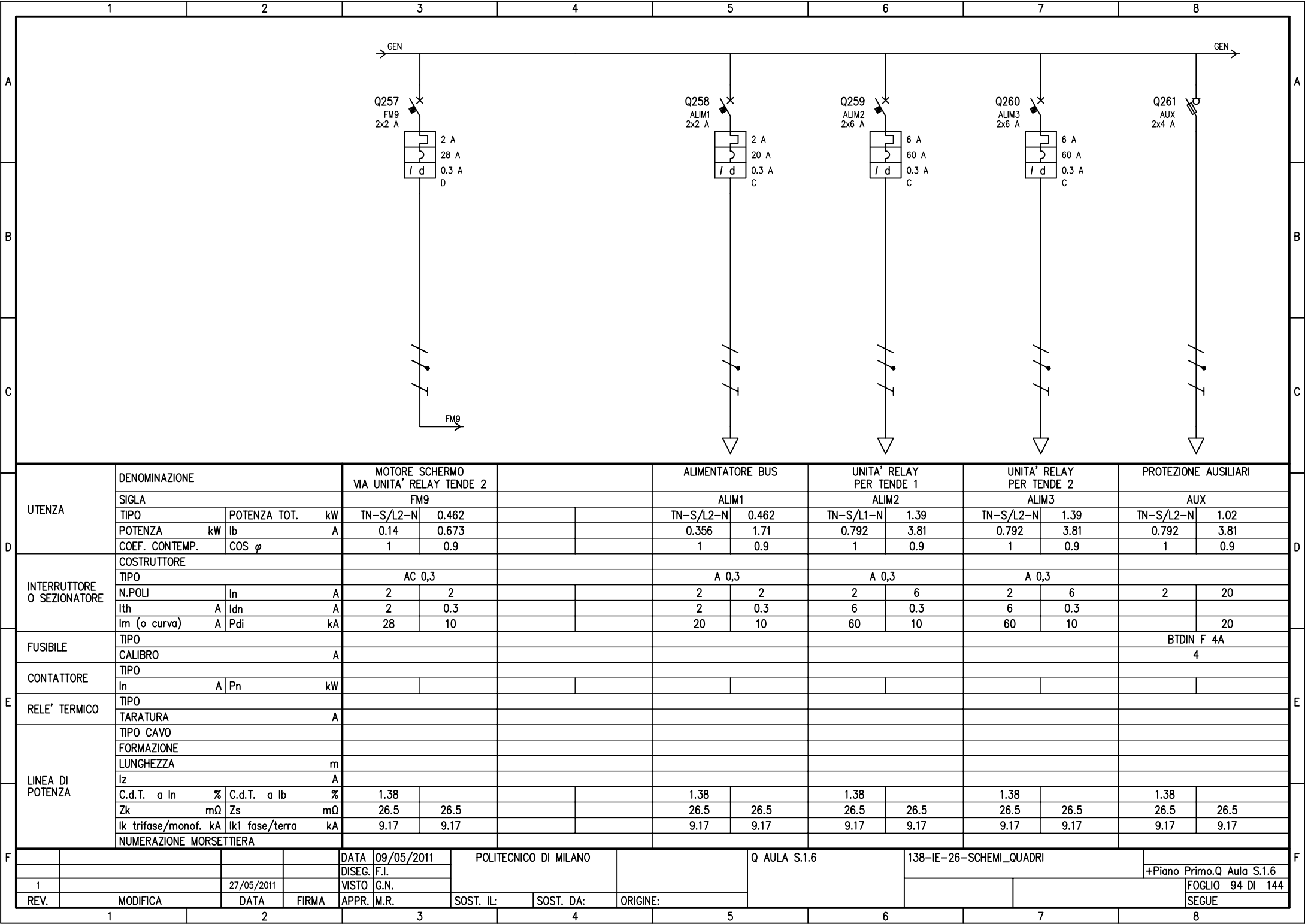


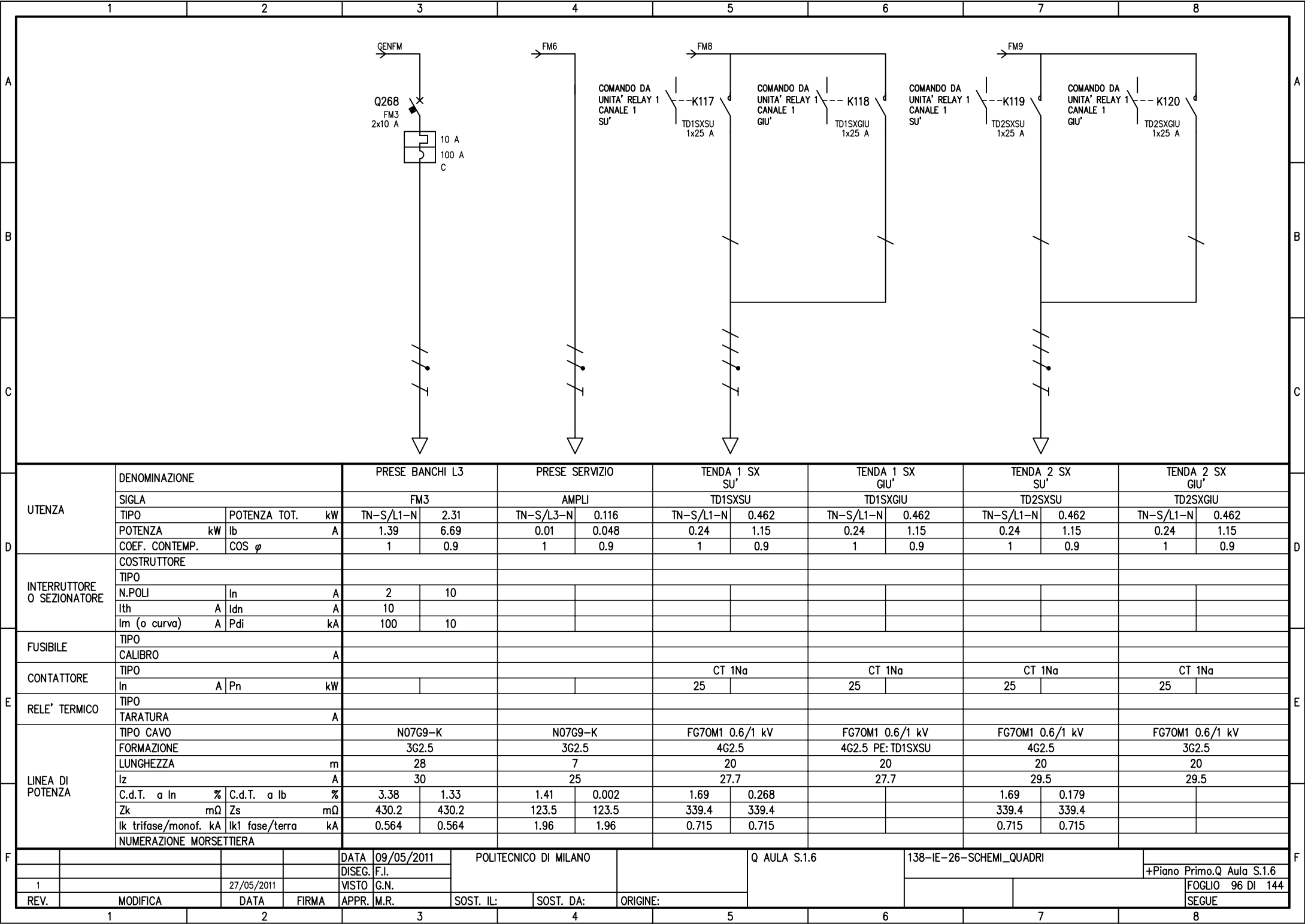


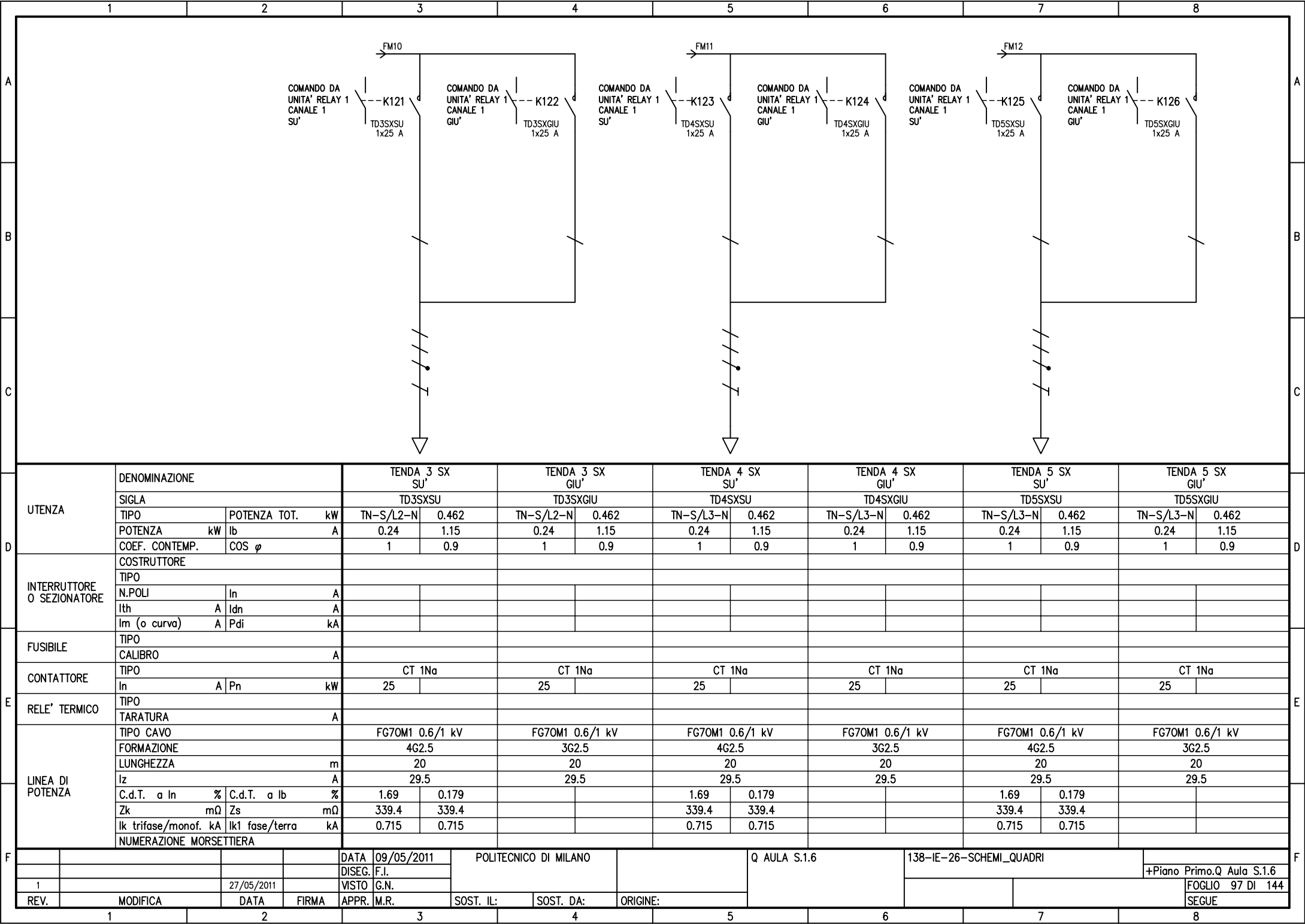
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|---|------------------------------|----------|--------------|--------|------------|-----------------------|-----------|-----------|--------------|-------------------------|--|---------------------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| A | | | | | | | | | A | | | |
| B | Potenza | | 13.3 kW | | | | | | | | | |
| | Caduta di tensione (Tot. Ib) | | 1.14 % | | | | | | | | | |
| | Corrente di guasto (Ikmax) | | 15.4 kA | | | | | | | | | |
| | Zona | | Piano Primo | | | | | | | | | |
| | Quadro | | Q Aula S.1.6 | | | | | | | | | |
| C | | | | | | | | | C | | | |
| D | | | | | | | | | D | | | |
| E | | | | | | | | | E | | | |
| F | | | | DATA | 09/05/2011 | POLITECNICO DI MILANO | | | Q AULA S.1.6 | 138-IE-26-SCHEMI_QUADRI | | |
| | | | | DISEG. | F.I. | | | | | | | +Piano Primo.Q Aula S.1.6 |
| | 1 | | 27/05/2011 | VISTO | G.N. | | | | | | | FOGLIO 90 DI 144 |
| | REV. | MODIFICA | DATA | FIRMA | APPR. | M.R. | SOST. IL: | SOST. DA: | ORIGINE: | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |

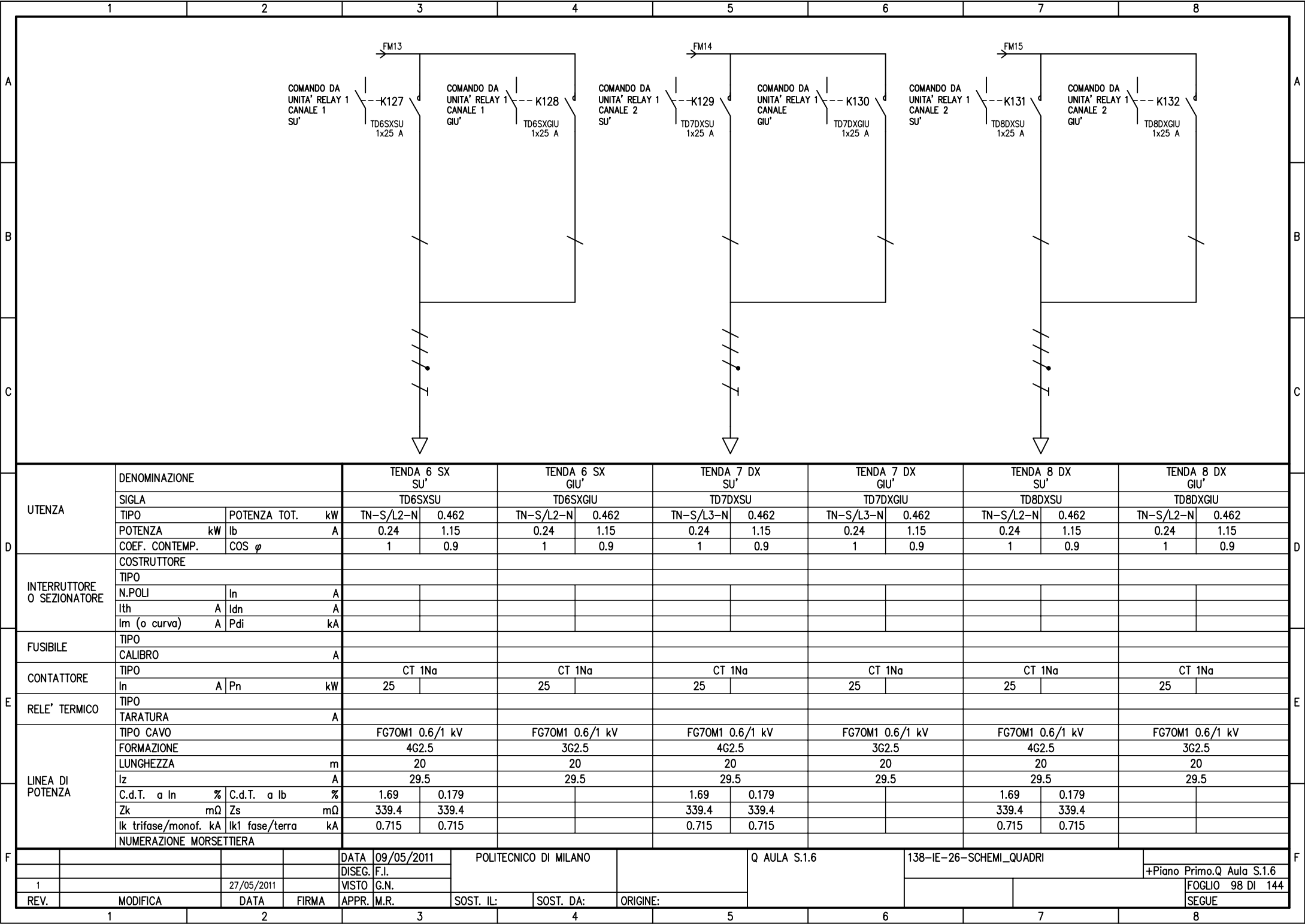


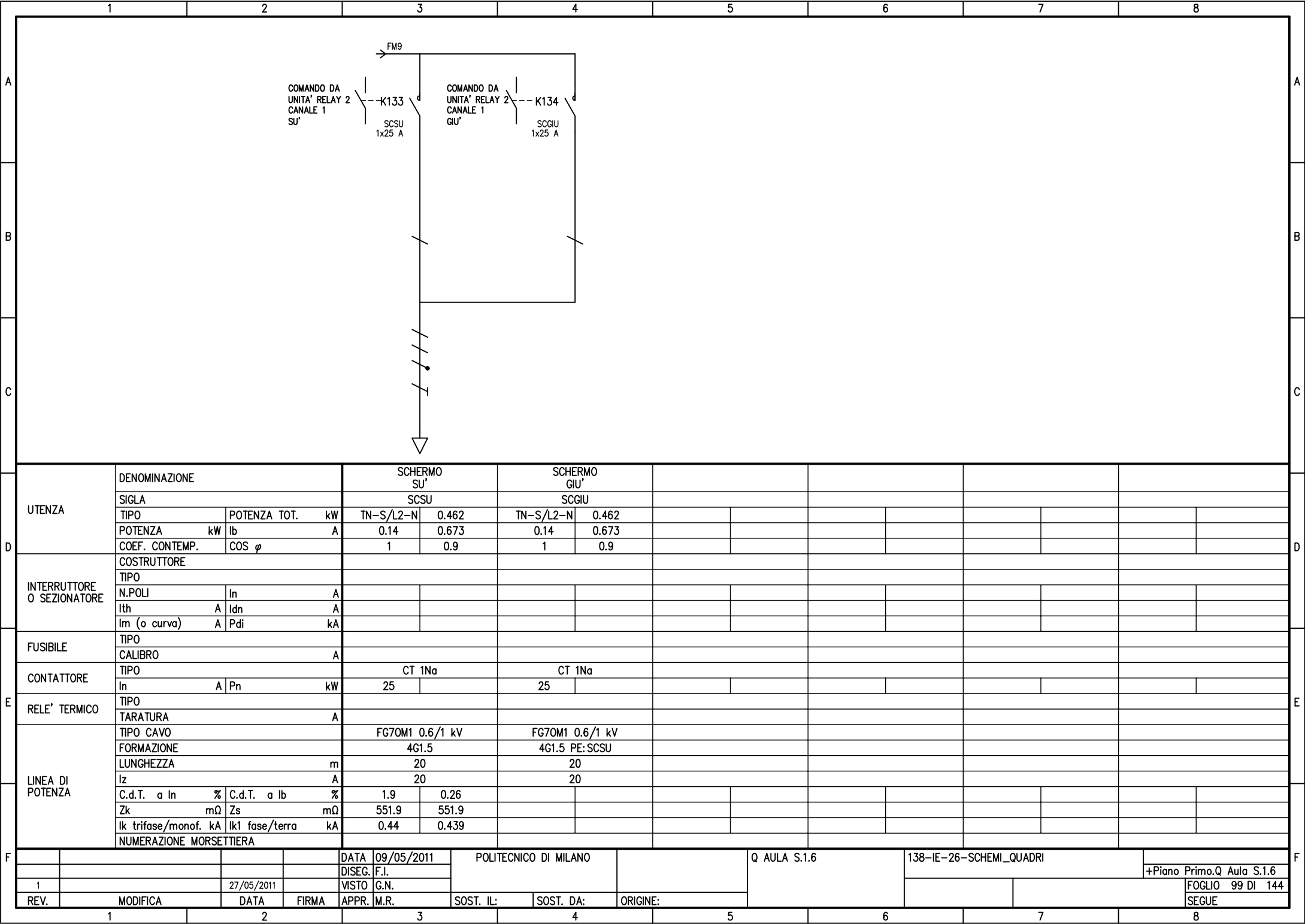




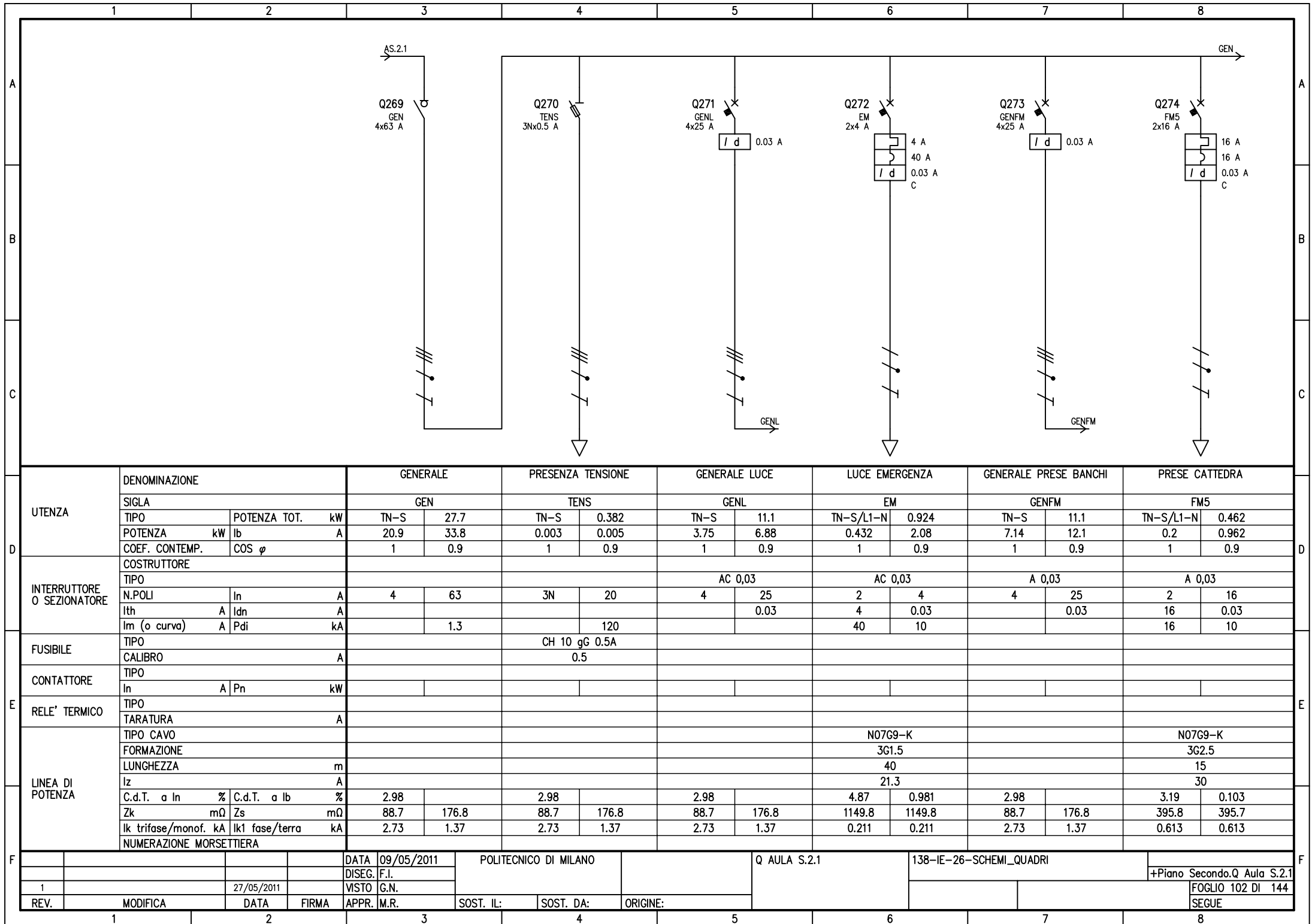


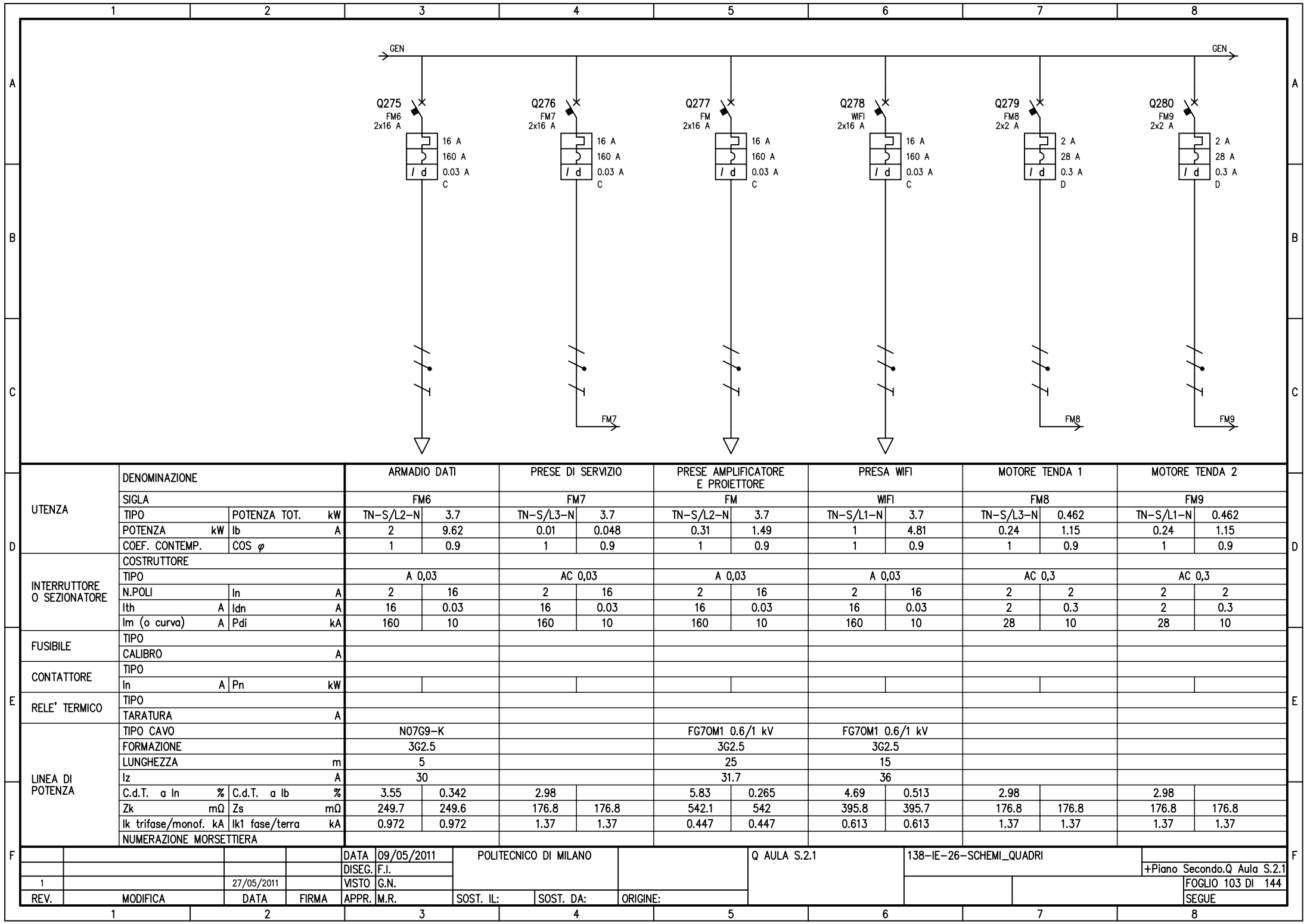


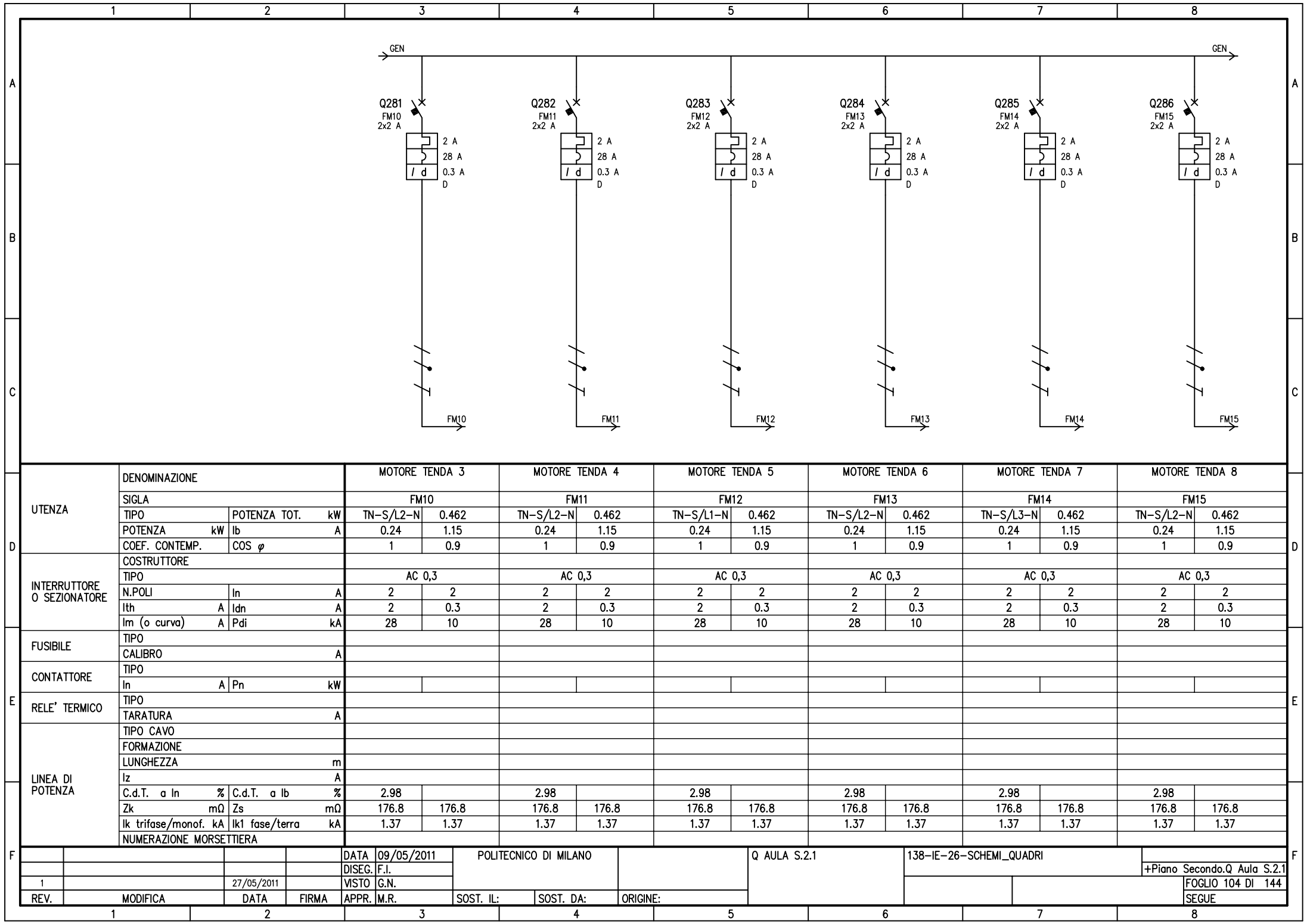


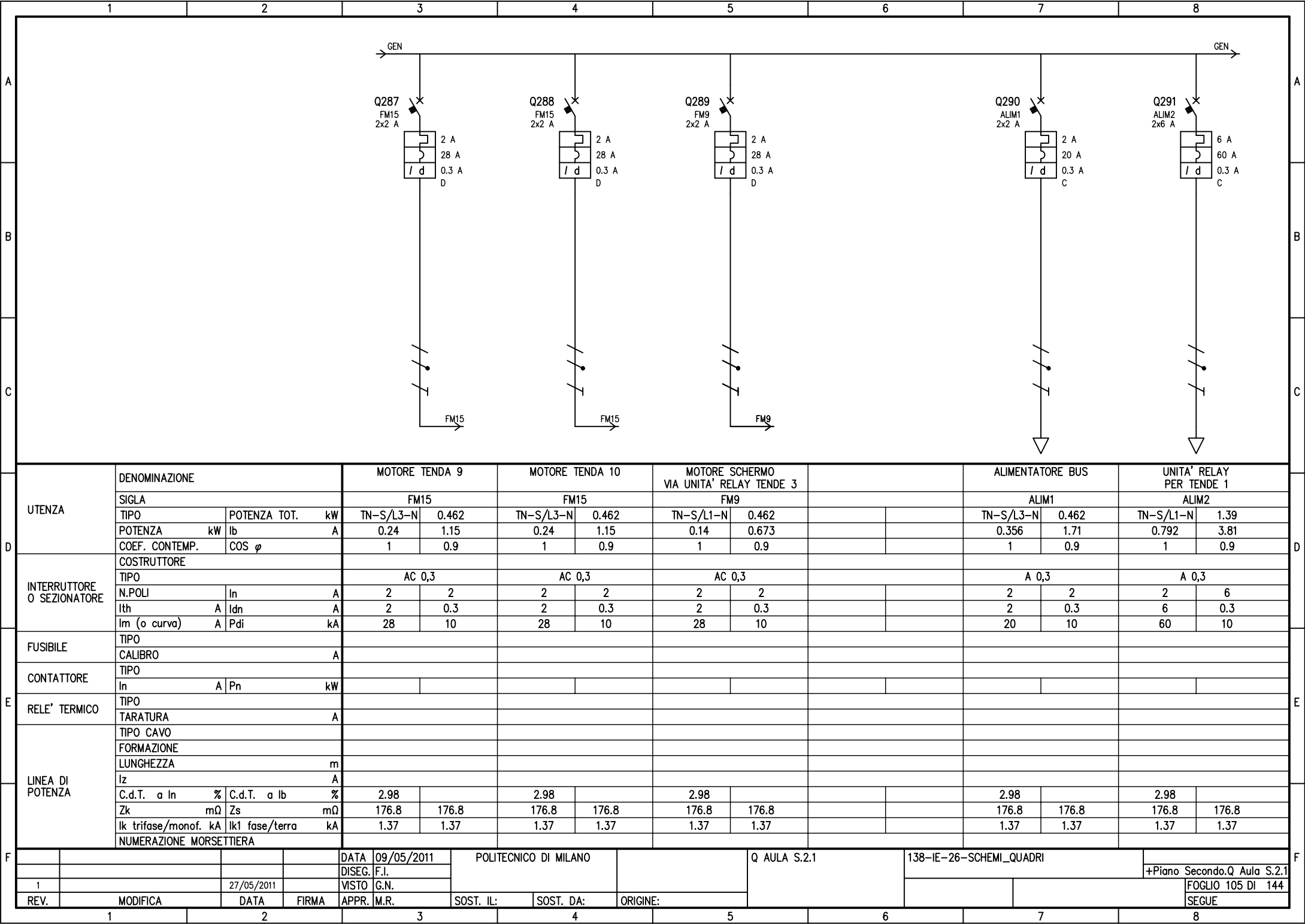


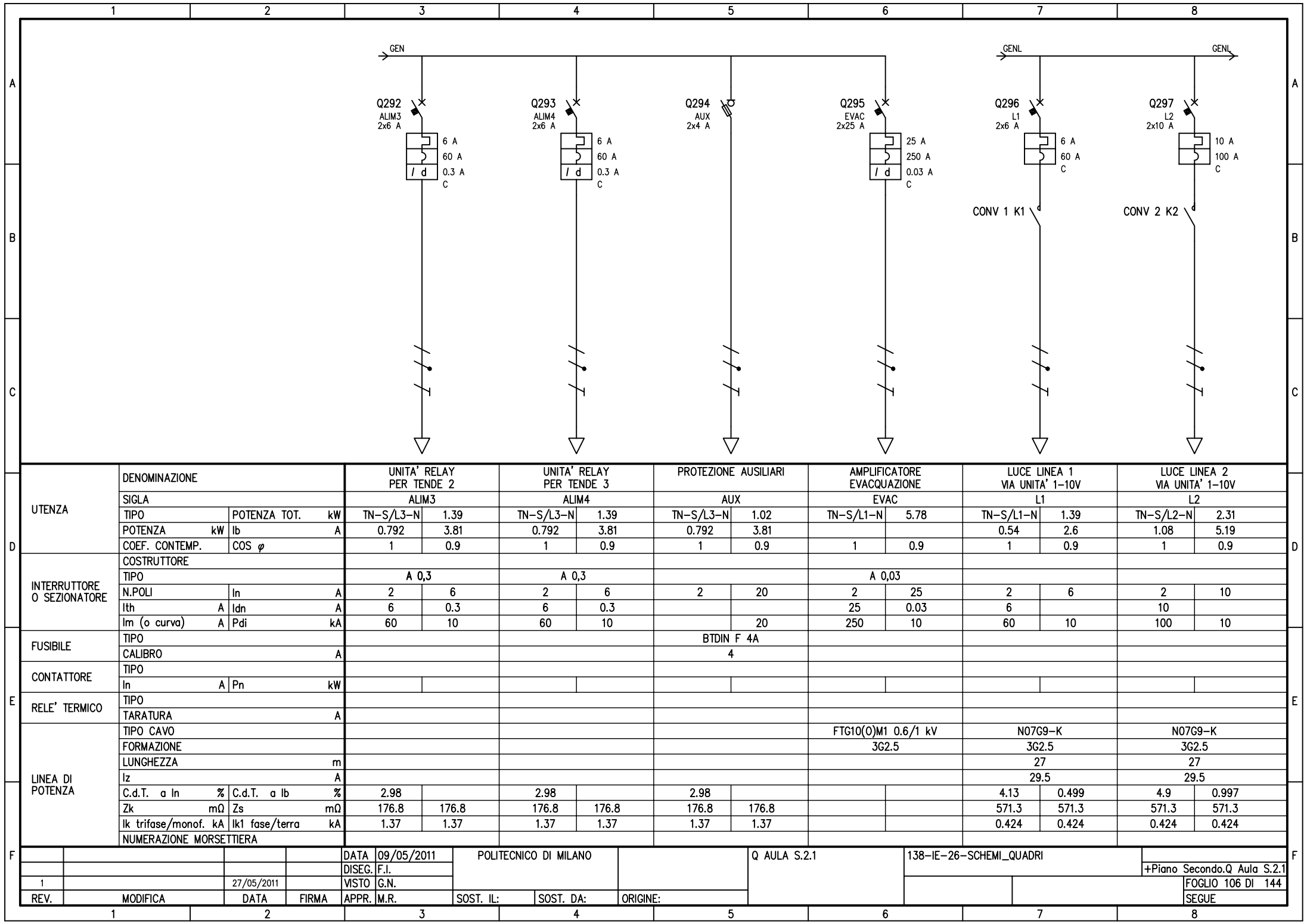
| | | | | | | | | | | | |
|---|------------------------------|----------|---------------|--------|------------|-----------------------|-----------|-----------|--------------|-------------------------|-----------------------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | |
| A | | | | | | | | | A | | |
| B | Potenza | | 20.9 kW | | | | | | | | |
| | Caduta di tensione (Tot. Ib) | | 2.48 % | | | | | | | | |
| | Corrente di guasto (Ikmax) | | 2.73 kA | | | | | | | | |
| | Zona | | Piano Secondo | | | | | | | | |
| | Quadro | | Q Aula S.2.1 | | | | | | | | |
| C | | | | | | | | | C | | |
| D | | | | | | | | | D | | |
| E | | | | | | | | | E | | |
| F | | | | DATA | 09/05/2011 | POLITECNICO DI MILANO | | | Q AULA S.2.1 | 138-IE-26-SCHEMI_QUADRI | |
| | | | | DISEG. | F.I. | | | | | | +Piano Secondo.Q Aula S.2.1 |
| | 1 | | 27/05/2011 | VISTO | G.N. | | | | | | FOGLIO 101 DI 144 |
| | REV. | MODIFICA | DATA | FIRMA | APPR. | M.R. | SOST. IL: | SOST. DA: | ORIGINE: | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | |

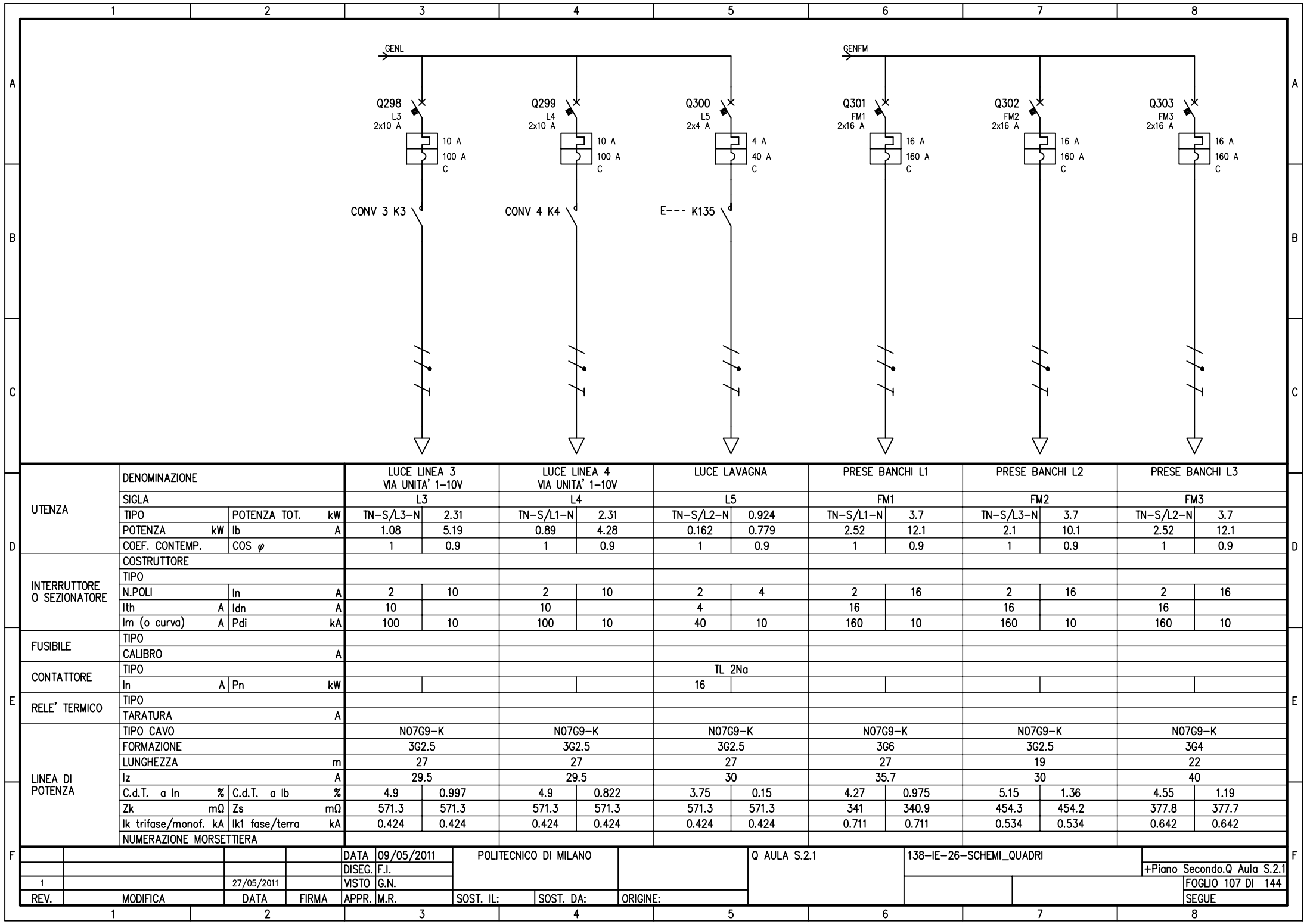


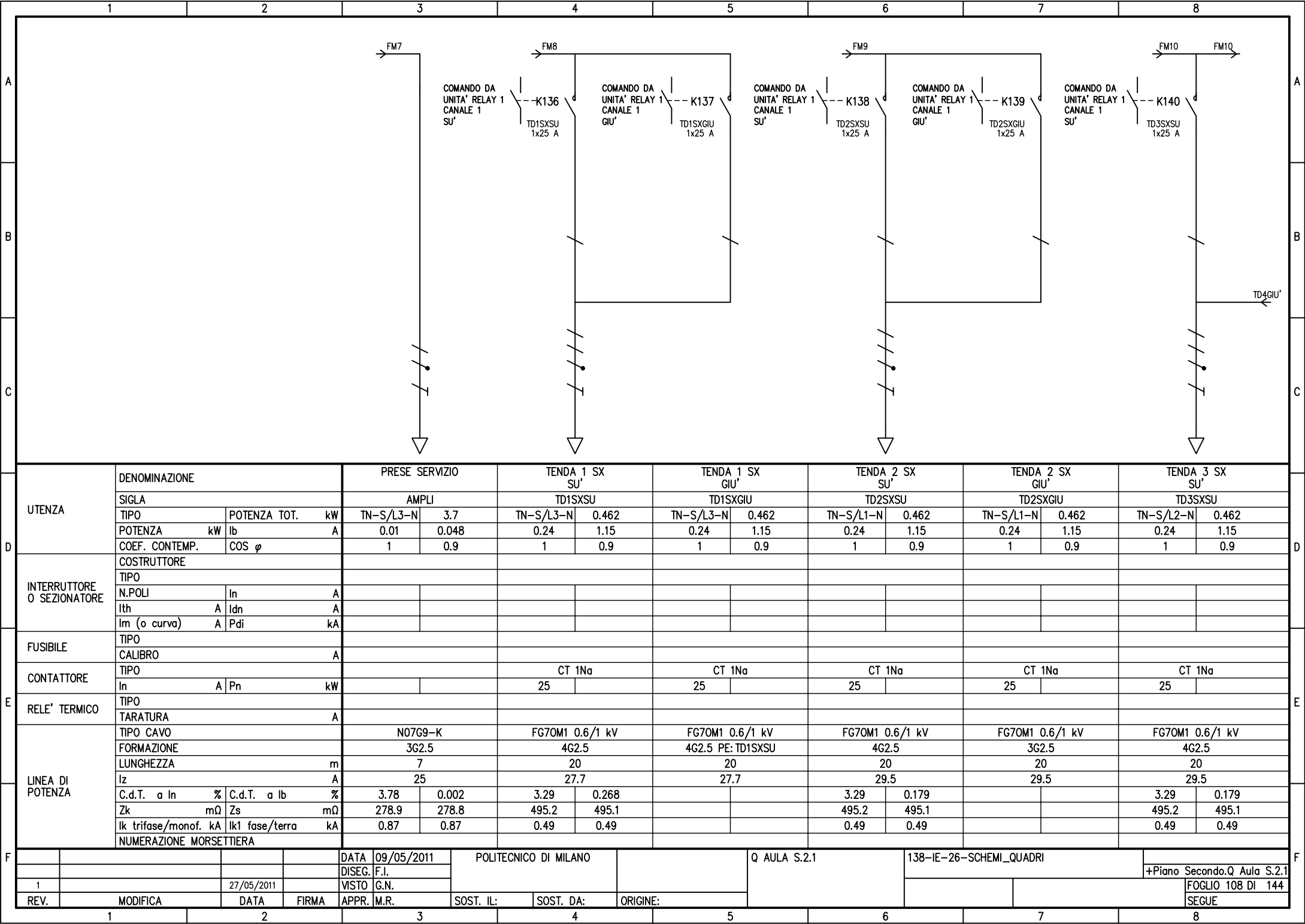




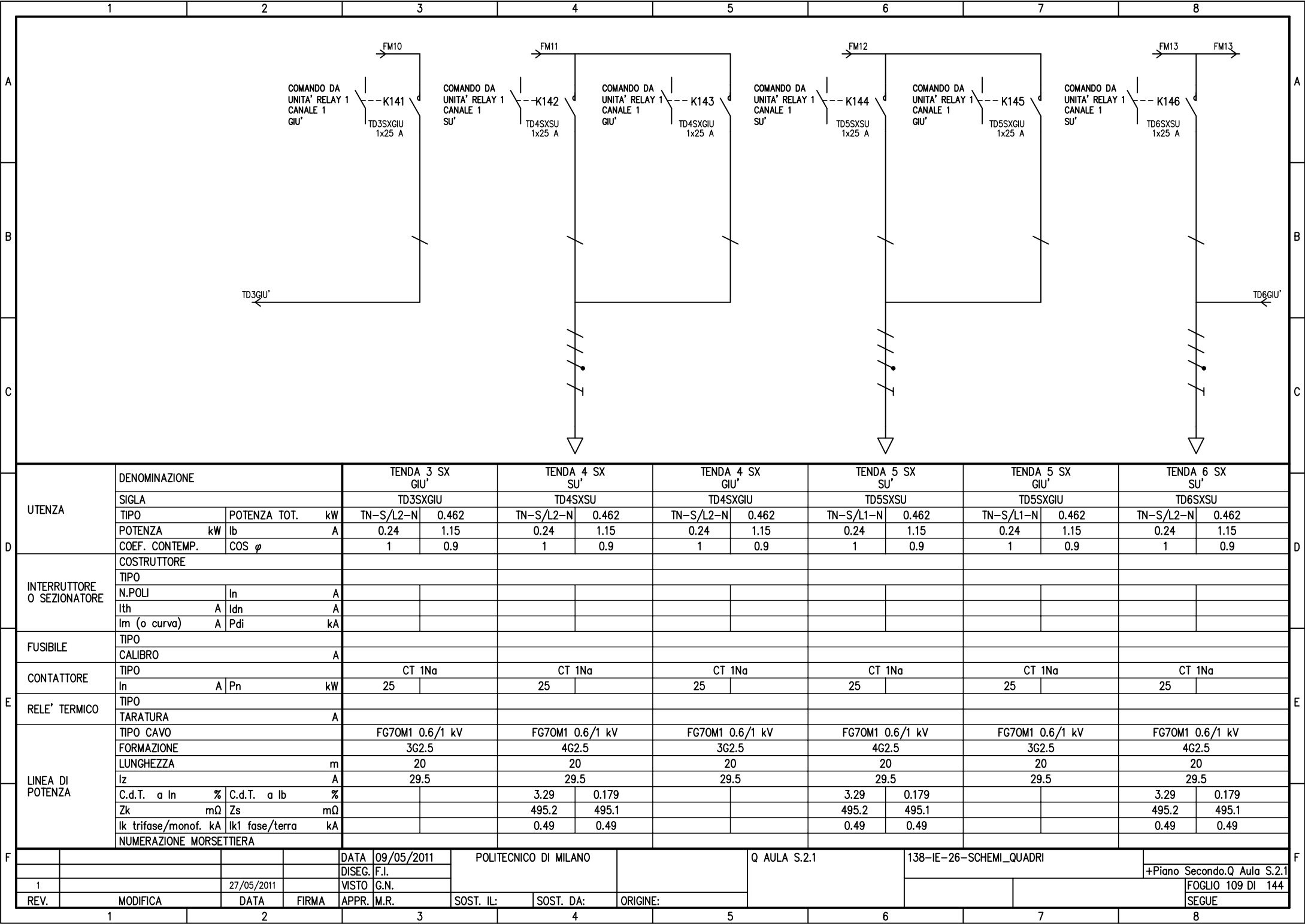


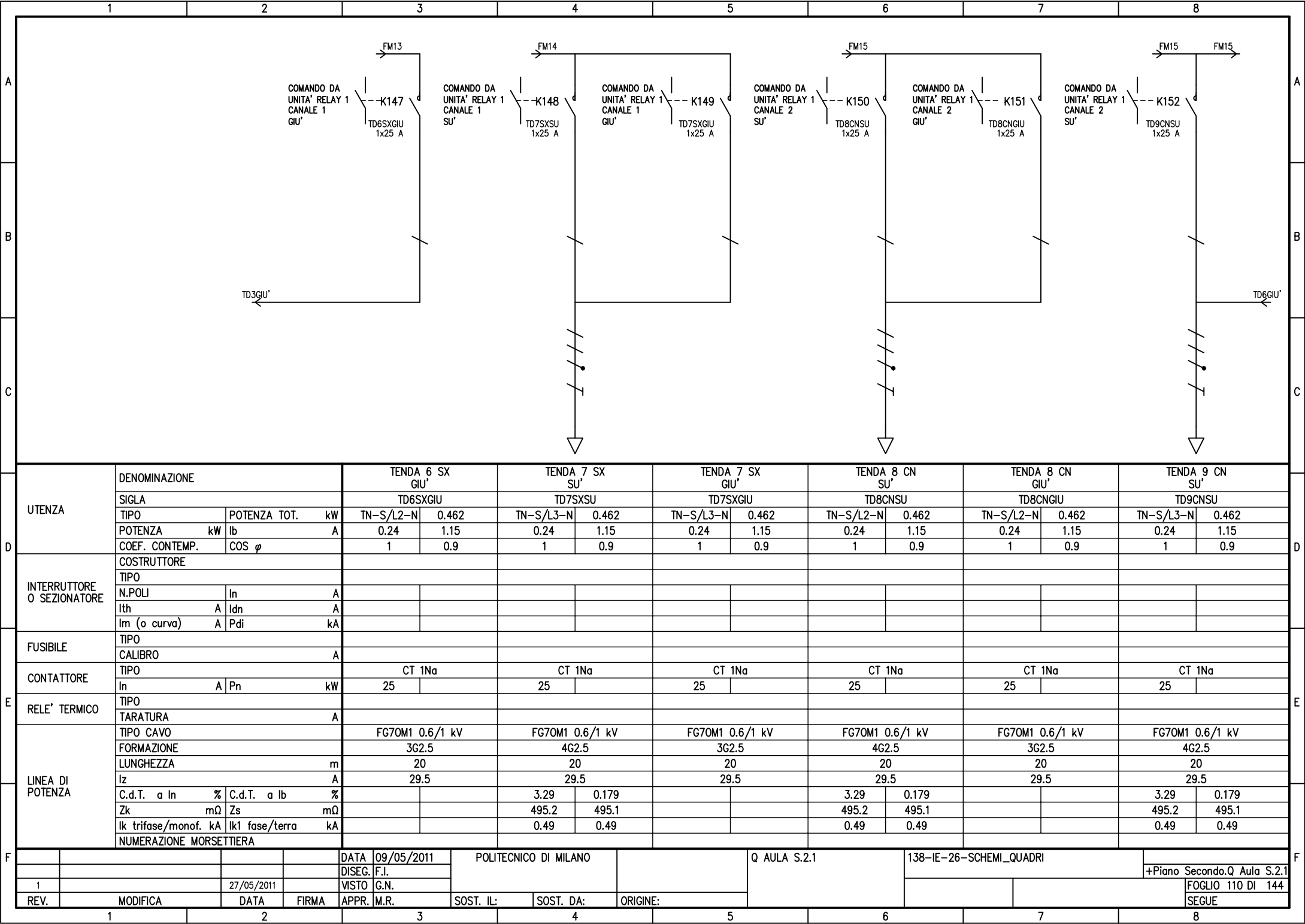


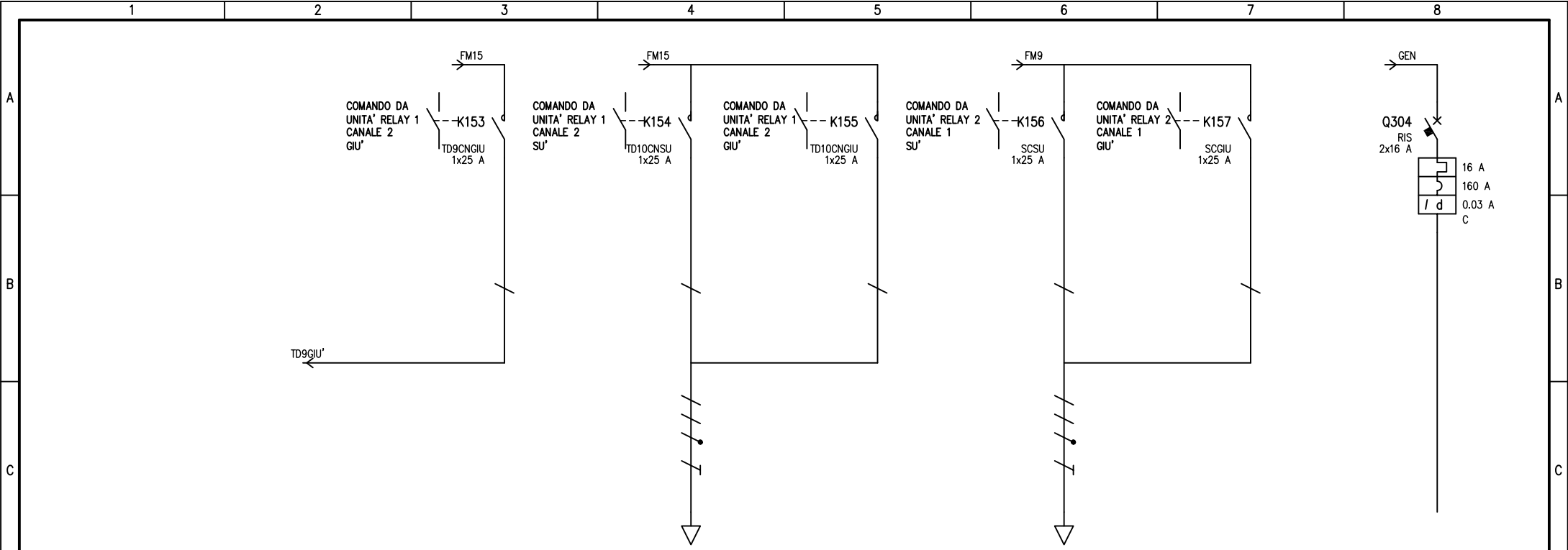




| UTENZA | DENOMINAZIONE | | | PRESE SERVIZIO | | TENDA 1 SX SU' | | TENDA 1 SX GIU' | | TENDA 2 SX SU' | | TENDA 2 SX GIU' | | TENDA 3 SX SU' | |
|----------------------------|-------------------------|--------------|----|----------------|-----------------------|----------------|------------|-----------------|-----------|----------------|-------------------------|-----------------|-------|-----------------------------|-------|
| | SIGLA | | | AMPLI | | TD1SXSU | | TD1SXGIU | | TD2SXSU | | TD2SXGIU | | TD3SXSU | |
| | TIPO | POTENZA TOT. | kW | TN-S/L3-N | 3.7 | TN-S/L3-N | 0.462 | TN-S/L3-N | 0.462 | TN-S/L1-N | 0.462 | TN-S/L1-N | 0.462 | TN-S/L2-N | 0.462 |
| | POTENZA kW | lb | A | 0.01 | 0.048 | 0.24 | 1.15 | 0.24 | 1.15 | 0.24 | 1.15 | 0.24 | 1.15 | 0.24 | 1.15 |
| INTERRUTTORE O SEZIONATORE | COEF. CONTEMP. | | | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 |
| | COS φ | | | | | | | | | | | | | | |
| | COSTRUTTORE | | | | | | | | | | | | | | |
| | TIPO | | | | | | | | | | | | | | |
| FUSIBILE | N.POLI | | | In | A | | | | | | | | | | |
| | Ith | | | A | Idn | A | | | | | | | | | |
| | Im (o curva) | | | A | Pdi | kA | | | | | | | | | |
| CONTATTORE | TIPO | | | | | | | | | | | | | | |
| | CALIBRO | | | | | | | | | | | | | | |
| RELE' TERMICO | TIPO | | | | | | | | | | | | | | |
| | TARATURA | | | | | | | | | | | | | | |
| LINEA DI POTENZA | TIPO CAVO | | | | | | | | | | | | | | |
| | FORMAZIONE | | | | | | | | | | | | | | |
| | LUNGHEZZA | | | | | | | | | | | | | | |
| | Iz | | | | | | | | | | | | | | |
| | C.d.T. a In | | | % | C.d.T. a Ib | % | | | | | | | | | |
| | Zk | | | mΩ | Zs | mΩ | | | | | | | | | |
| | Ik trifase/monof. kA | | | | Ik1 fase/terra kA | | | | | | | | | | |
| | NUMERAZIONE MORSETTIERA | | | | | | | | | | | | | | |
| F | DATA | | | 09/05/2011 | POLITECNICO DI MILANO | | | Q AULA S.2.1 | | | 138-IE-26-SCHEMI_QUADRI | | | +Piano Secondo.Q Aula S.2.1 | |
| | DISEG. F.I. | | | | | | | | | | | | | | |
| | VISTO G.N. | | | | | | | | | | | | | FOGLIO 108 DI 144 | |
| | REV. | | | MODIFICA | DATA | FIRMA | APPR. M.R. | SOST. IL: | SOST. DA: | ORIGINE: | | | | SEGUE | |

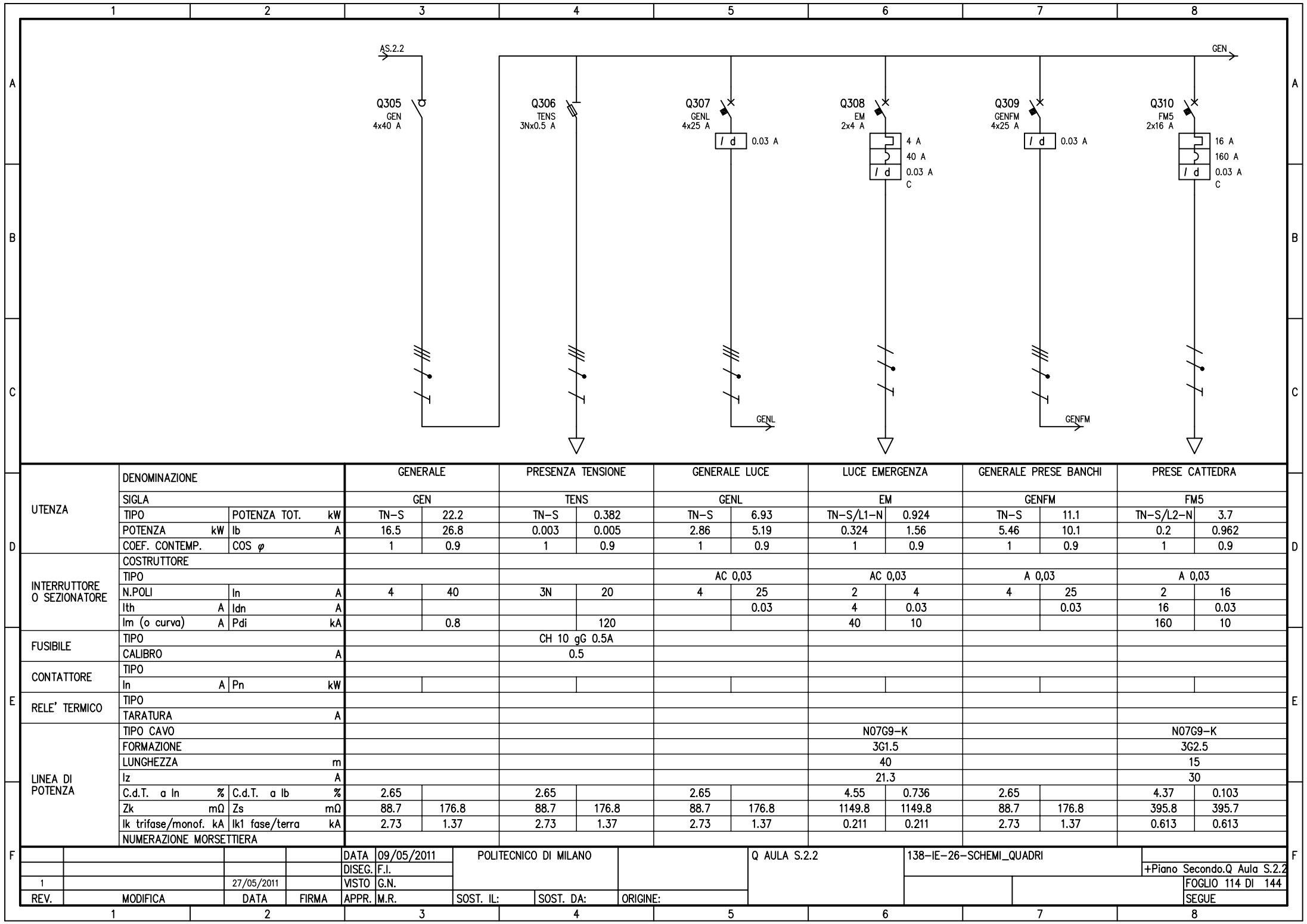


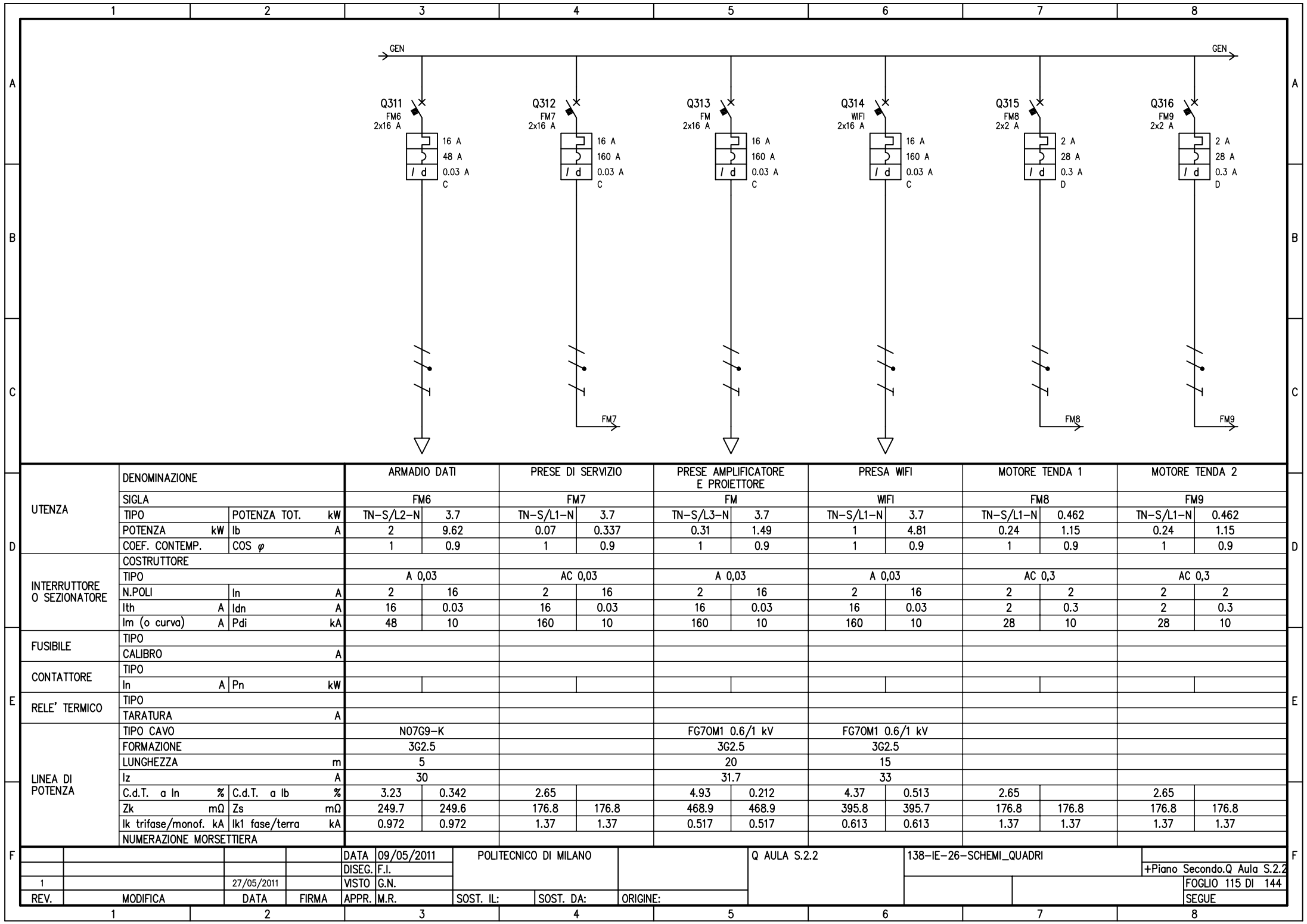


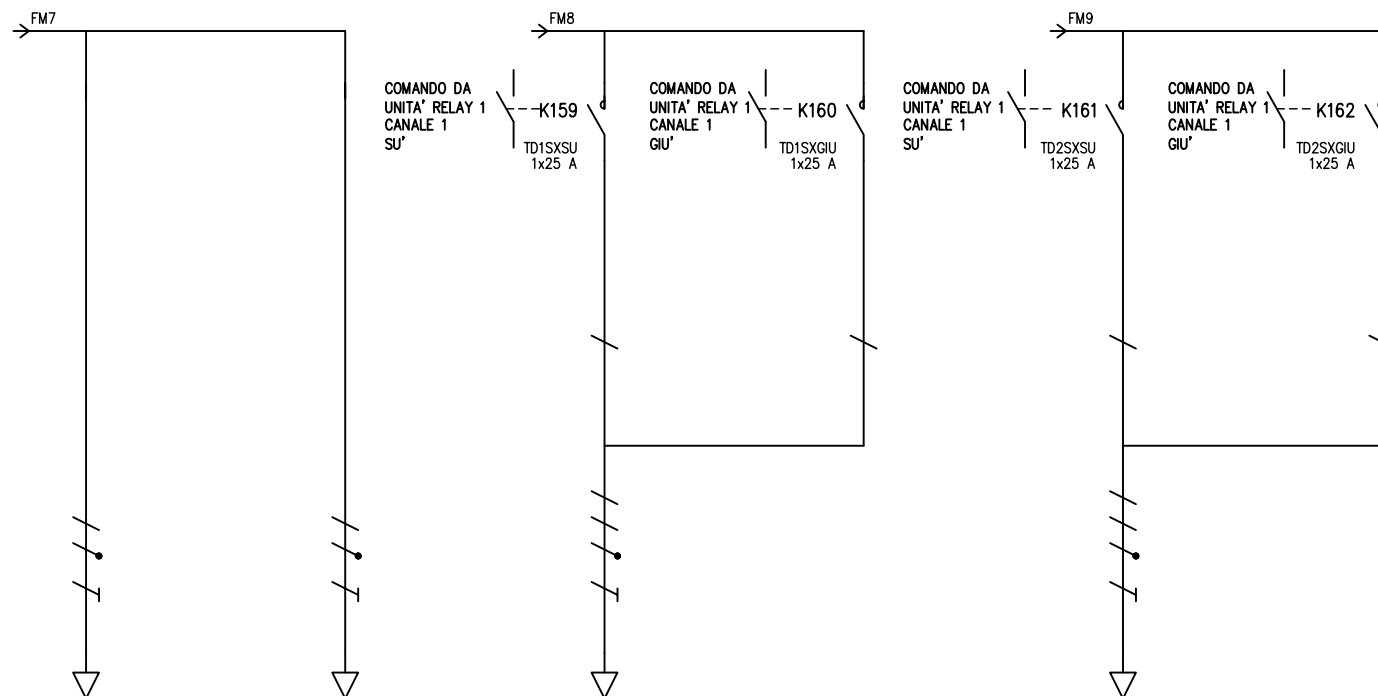


| | | | | | | | | | | | | | | | | | |
|-------------------------|----------------------------|----------------|-------------------|------------|-----------------|------------|-----------------------|-----------|------------------|----------|-------------------------|-------|-----------------|-------|-----------------------------|-------|--|
| D | UTENZA | DENOMINAZIONE | | | TENDA 9 CN GIU' | | TENDA 10 CN SU' | | TENDA 10 CN GIU' | | SCHERMO SU' | | SCHERMO GIU' | | RISERVA | | |
| | | SIGLA | | | TD9CNGIU | | TD10CNSU | | TD10CNGIU | | SCSU | | SCGIU | | RIS | | |
| | | TIPO | POTENZA TOT. | kW | TN-S/L3-N | 0.462 | TN-S/L3-N | 0.462 | TN-S/L3-N | 0.462 | TN-S/L1-N | 0.462 | TN-S/L1-N | 0.462 | TN-S/L1-N | 5.78 | |
| | | POTENZA | kW | lb | A | 0.24 | 1.15 | 0.24 | 1.15 | 0.24 | 1.15 | 0.14 | 0.673 | 0.14 | 0.673 | | |
| | | COEF. CONTEMP. | COS φ | | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 | |
| | INTERRUTTORE O SEZIONATORE | COSTRUTTORE | | | | | | | | | | | | | | | |
| | | TIPO | | | | | | | | | | | | | A 0,03 | | |
| | | N.POLI | In | A | | | | | | | | | | | 2 | 16 | |
| | | Ith | A | Idn | A | | | | | | | | | | 16 | 0.03 | |
| | | Im (o curva) | A | Pdi | kA | | | | | | | | | | 160 | 10 | |
| E | FUSIBILE | TIPO | | | | | | | | | | | | | | | |
| | | CALIBRO | | | A | | | | | | | | | | | | |
| | CONTATTORE | TIPO | | | CT 1Na | | CT 1Na | | CT 1Na | | CT 1Na | | CT 1Na | | | | |
| | | In | A | Pn | kW | 25 | | 25 | | 25 | | 25 | | 25 | | | |
| | RELE' TERMICO | TIPO | | | | | | | | | | | | | | | |
| | | TARATURA | | | A | | | | | | | | | | | | |
| | LINEA DI POTENZA | TIPO CAVO | | | FG70M1 0.6/1 kV | | FG70M1 0.6/1 kV | | FG70M1 0.6/1 kV | | FG70M1 0.6/1 kV | | FG70M1 0.6/1 kV | | | | |
| | | FORMAZIONE | | | 3G2.5 | | 4G2.5 | | 3G2.5 | | 4G1.5 | | 4G1.5 PE:SCSU | | | | |
| | | LUNGHEZZA | | | m | 20 | 20 | | 20 | | 20 | | 20 | | | | |
| | | Iz | | | A | 29.5 | 29.5 | | 29.5 | | 20 | | 20 | | | | |
| C.d.T. a In | | % | C.d.T. a Ib | % | | 3.29 | 0.179 | | 3.5 | 0.26 | | | | | | | |
| Zk | | mΩ | Zs | mΩ | | 495.2 | 495.1 | | 707.7 | 707.7 | | | | | | | |
| Ik trifase/monof. kA | | | Ik1 fase/terra kA | | 0.49 | | 0.49 | | 0.343 | | 0.343 | | | | | | |
| NUMERAZIONE MORSETTIERA | | | | | | | | | | | | | | | | | |
| F | | | | | DATA | 09/05/2011 | POLITECNICO DI MILANO | | Q AULA S.2.1 | | 138-IE-26-SCHEMI_QUADRI | | | | | | |
| | | | | | DISEG. | F.I. | | | | | | | | | +Piano Secondo.Q Aula S.2.1 | | |
| | 1 | | | 27/05/2011 | VISTO | G.N. | | | | | | | | | | | |
| | REV. | MODIFICA | | DATA | FIRMA | APPR. | M.R. | SOST. IL: | SOST. DA: | ORIGINE: | | | | | FOGLIO 111 DI 144 | | |
| | | 1 | | | | | 3 | | | | | | | | | 8 | |
| | | | | | | | | | | | | | | | | SEGUE | |

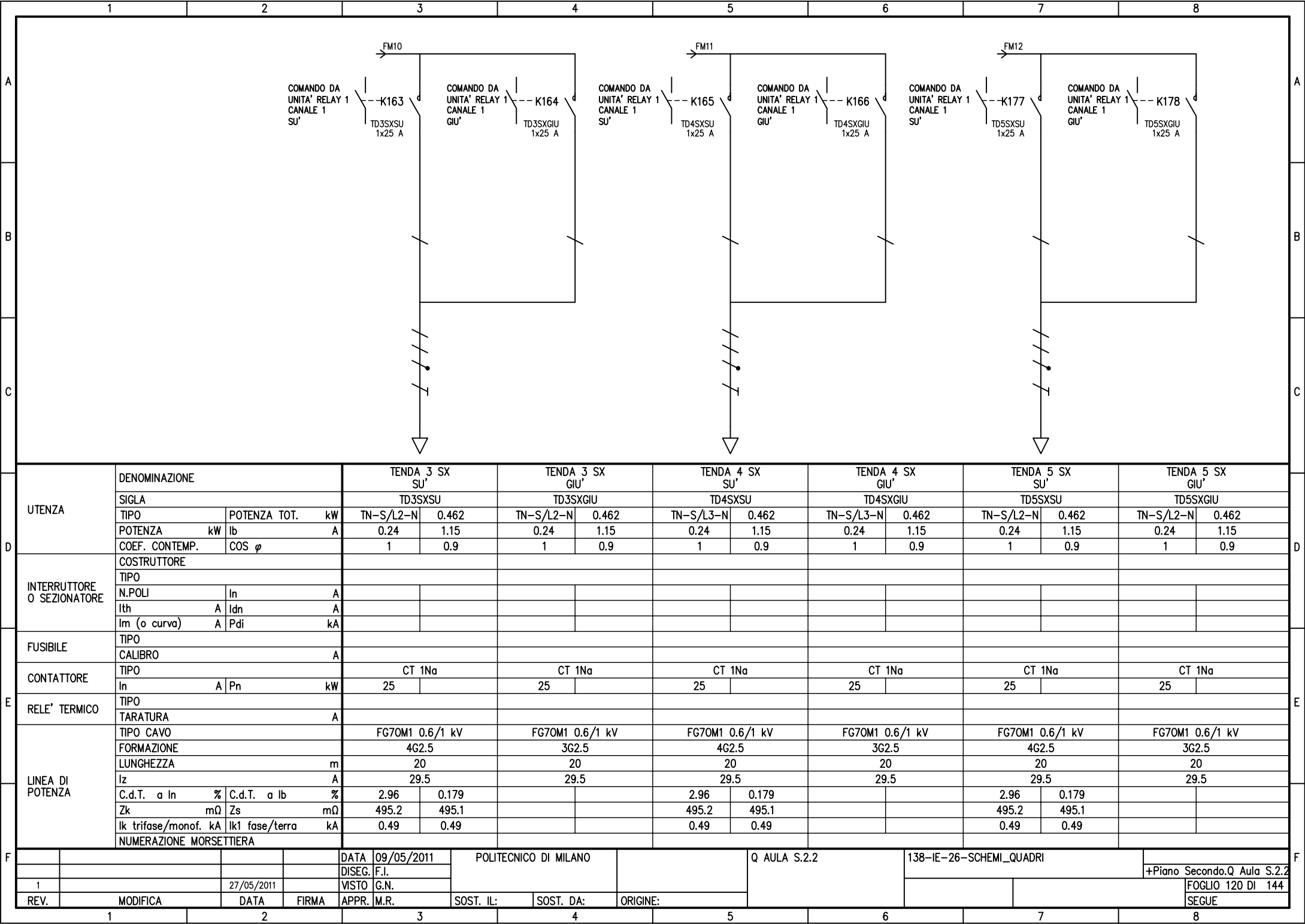
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|---|------------------------------|----------|---------------|--------|------------|-----------------------|-----------|-----------|--------------|-------------------------|-----------------------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | |
| A | | | | | | | | | A | | |
| B | Potenza | | 16.5 kW | | | | | | | | |
| | Caduta di tensione (Tot. Ib) | | 2.19 % | | | | | | | | |
| | Corrente di guasto (Ikmax) | | 2.73 kA | | | | | | | | |
| | Zona | | Piano Secondo | | | | | | | | |
| | Quadro | | Q Aula S.2.2 | | | | | | | | |
| C | | | | | | | | | C | | |
| D | | | | | | | | | D | | |
| E | | | | | | | | | E | | |
| F | | | | DATA | 09/05/2011 | POLITECNICO DI MILANO | | | Q AULA S.2.2 | 138-IE-26-SCHEMI_QUADRI | |
| | | | | DISEG. | F.I. | | | | | | +Piano Secondo.Q Aula S.2.2 |
| | 1 | | 27/05/2011 | VISTO | G.N. | | | | | | FOGLIO 113 DI 144 |
| | REV. | MODIFICA | DATA | FIRMA | APPR. | M.R. | SOST. IL: | SOST. DA: | ORIGINE: | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | |



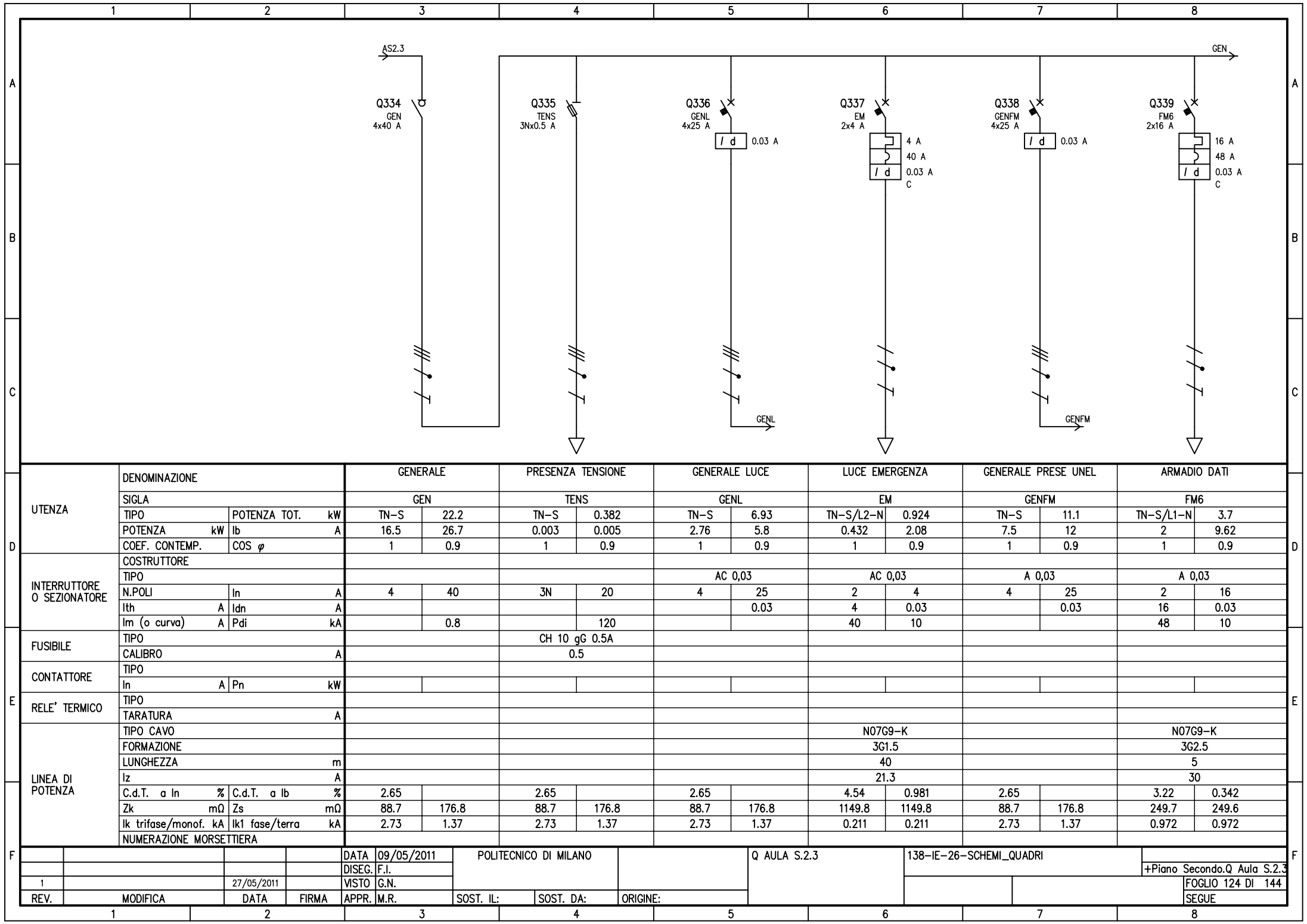


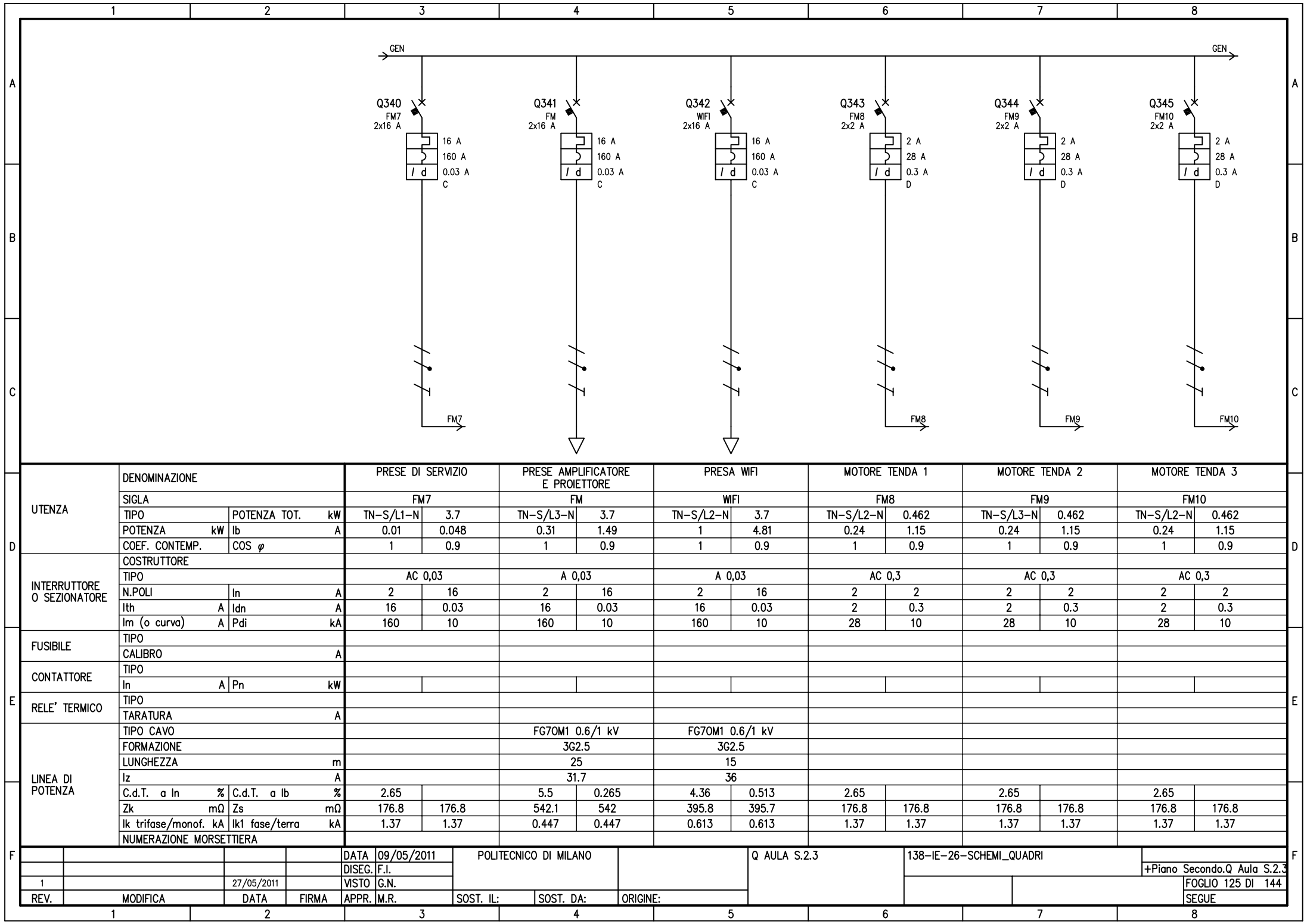


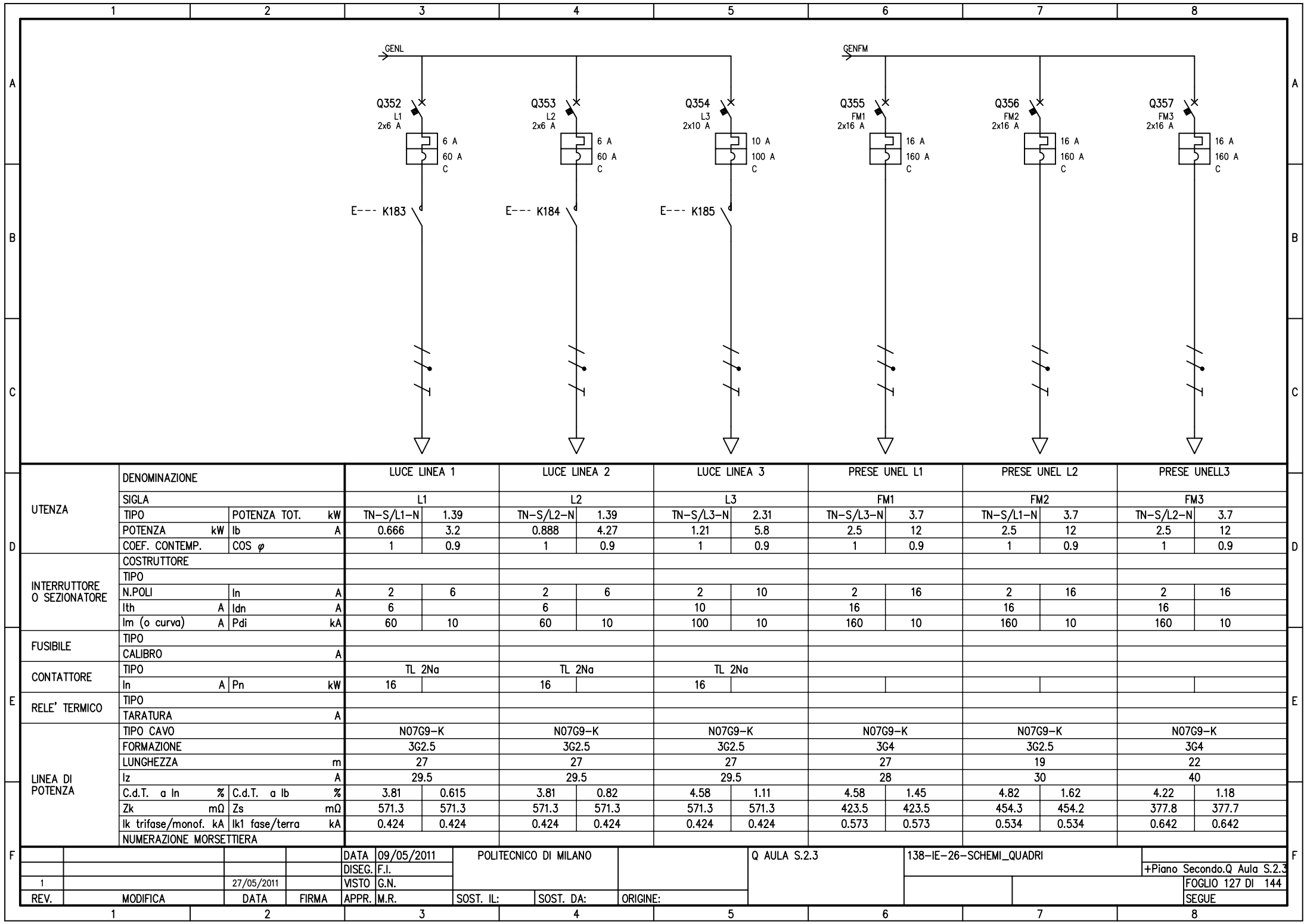
| UTENZA | | DENOMINAZIONE | | PRESE SERVIZIO | | PRESA AMPLIFICATORE | | TENDA 1 SX SU' | | TENDA 1 SX GIU' | | TENDA 2 SX SU' | | TENDA 2 SX GIU' | | |
|-------------------------------|----------|-------------------------|-------------------|----------------|------------|-----------------------|-----------|-------------------|-------|-------------------------|-------|-------------------|-------|-----------------------------|----------------------------|--|
| | | SIGLA | | AMPLI | | AMPLI | | TD1SXSU | | TD1SXGIU | | TD2SXSU | | TD2SXGIU | | |
| | | TIPO | POTENZA TOT. kW | TN-S/L1-N | 3.7 | TN-S/L1-N | 3.7 | TN-S/L1-N | 0.462 | TN-S/L1-N | 0.462 | TN-S/L1-N | 0.462 | TN-S/L1-N | 0.462 | |
| | | POTENZA kW | lb | 0.01 | 0.048 | 0.06 | 0.289 | 0.24 | 1.15 | 0.24 | 1.15 | 0.24 | 1.15 | 0.24 | 1.15 | |
| COEF. CONTEMP. | | COS φ | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 | | |
| INTERRUTTORE O SEZIONATORE | | COSTRUTTORE | | | | | | | | | | | | | | |
| | | TIPO | | | | | | | | | | | | | | |
| | | N.POLI | In A | | | | | | | | | | | | | |
| | | Ith A | Idn A | | | | | | | | | | | | | |
| Im (o curva) A | | Pdi kA | | | | | | | | | | | | | | |
| FUSIBILE | | TIPO | | | | | | | | | | | | | | |
| | | CALIBRO | | A | | | | | | | | | | | | |
| CONTATTORE | | TIPO | | | | | | CT 1Na | | CT 1Na | | CT 1Na | | CT 1Na | | |
| | | In A | Pn kW | | | | | 25 | | 25 | | 25 | | 25 | | |
| RELE' TERMICO | | TIPO | | | | | | | | | | | | | | |
| | | TARATURA | | A | | | | | | | | | | | | |
| LINEA DI POTENZA | | TIPO CAVO | | N07G9-K | | N07G9-K | | FG70M1 0.6/1 kV | | FG70M1 0.6/1 kV | | FG70M1 0.6/1 kV | | FG70M1 0.6/1 kV | | |
| | | FORMAZIONE | | 3G2.5 | | 3G2.5 | | 4G2.5 | | 4G2.5 PE: TD1SXSU | | 4G2.5 | | 3G2.5 | | |
| | | LUNGHEZZA m | | 7 | | 7 | | 20 | | 20 | | 20 | | 20 | | |
| | | Iz A | | 25 | | 25 | | 27.7 | | 27.7 | | 29.5 | | 29.5 | | |
| | | C.d.T. a In % | C.d.T. a lb % | 3.45 | 0.002 | 3.45 | 0.014 | 2.96 | 0.268 | | | 2.96 | 0.179 | | | |
| | | Zk mΩ | Zs mΩ | 278.9 | 278.8 | 278.9 | 278.8 | 495.2 | 495.1 | | | 495.2 | 495.1 | | | |
| | | Ik trifase/monof. kA | Ik1 fase/terra kA | 0.87 | 0.87 | 0.87 | 0.87 | 0.49 | 0.49 | | | 0.49 | 0.49 | | | |
| | | NUMERAZIONE MORSETTIERA | | | | | | | | | | | | | | |
| | | | | DATA | 09/05/2011 | POLITECNICO DI MILANO | | Q AULA S.2.2 | | 138-IE-26-SCHEMI_QUADRI | | | | | | |
| | | | | DISEG. | F.I. | | | | | | | | | +Piano Secondo.Q Aula S.2.2 | | |
| 1 | | 27/05/2011 | | VISTO | G.N. | | | | | | | | | | | |
| REV. | MODIFICA | DATA | FIRMA | APPR. | M.R. | SOST. IL: | SOST. DA: | ORIGINE: | | | | | | | FOGLIO 119 DI 144 SEGUE | |

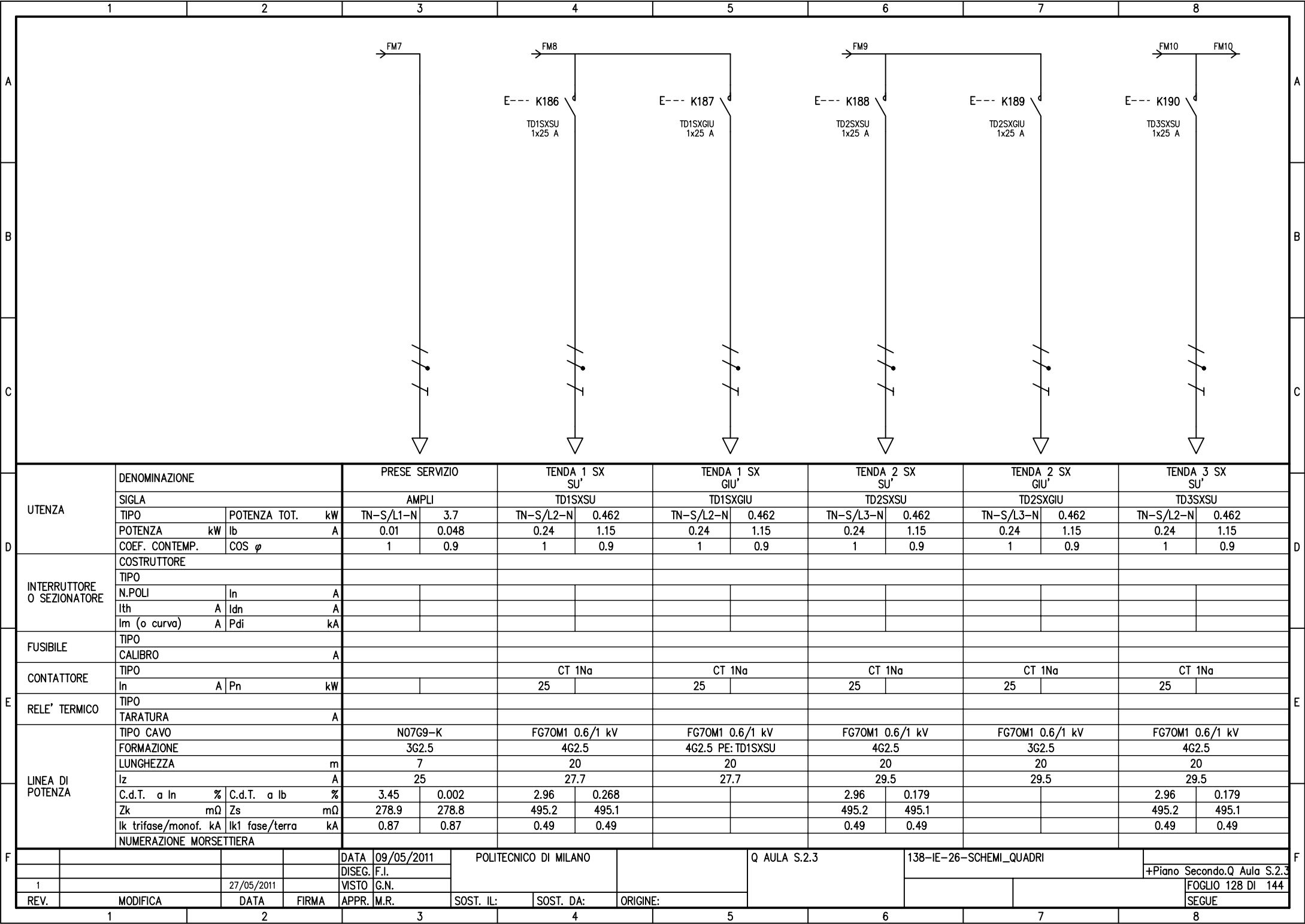


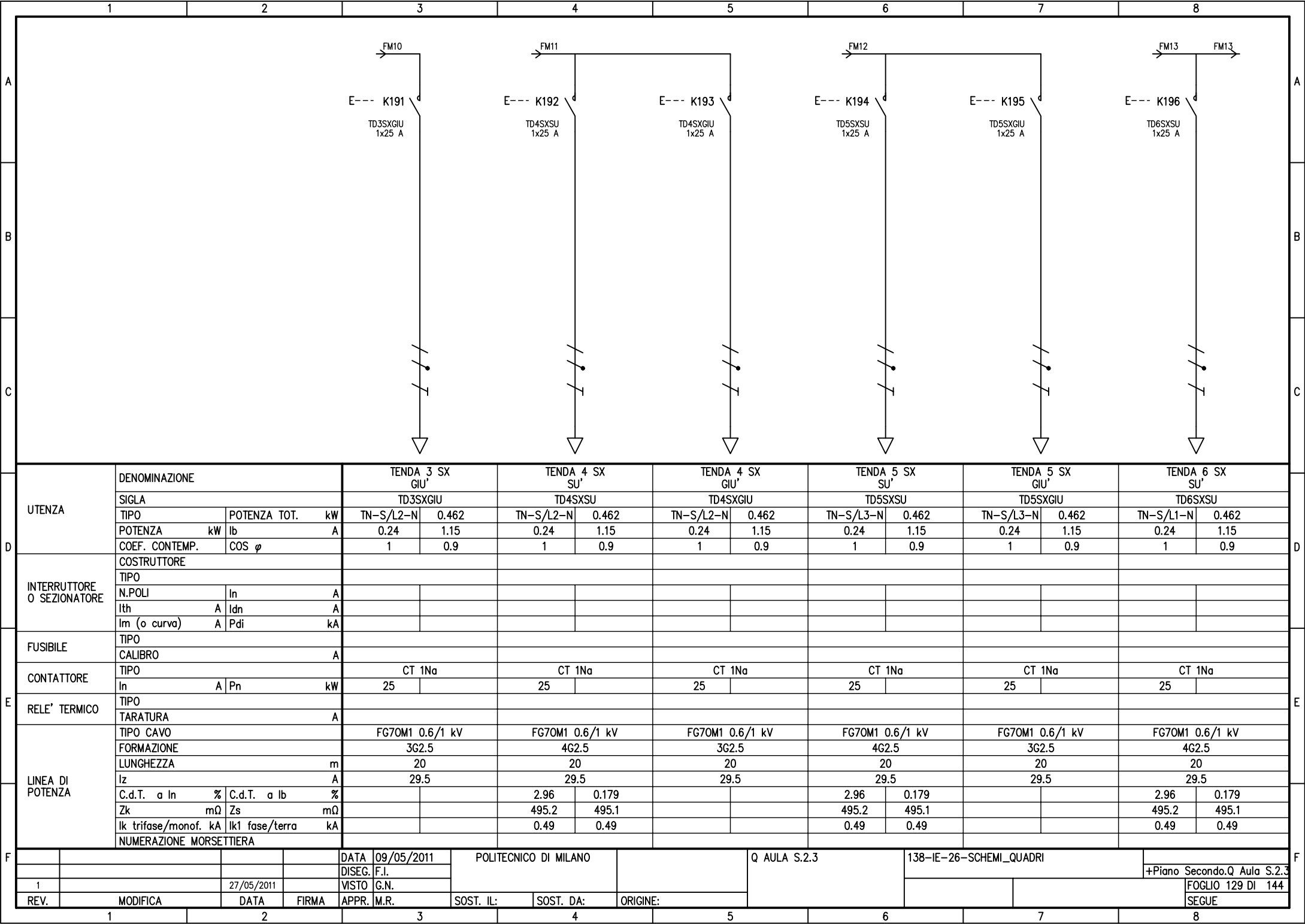
| | | | | | | | | | | | | |
|---|------------------------------|----------|---------------|--------|------------|-----------------------|------|-----------|--------------|-------------------------|--|-----------------------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| A | | | | | | | | | A | | | |
| B | Potenza | | 16.5 kW | | | | | | | | | |
| | Caduta di tensione (Tot. Ib) | | 2.17 % | | | | | | | | | |
| | Corrente di guasto (Ikmax) | | 2.73 kA | | | | | | | | | |
| | Zona | | Piano Secondo | | | | | | | | | |
| | Quadro | | Q Aula S.2.3 | | | | | | | | | |
| C | | | | | | | | | C | | | |
| D | | | | | | | | | D | | | |
| E | | | | | | | | | E | | | |
| F | | | | DATA | 09/05/2011 | POLITECNICO DI MILANO | | | Q AULA S.2.3 | 138-IE-26-SCHEMI_QUADRI | | |
| | | | | DISEG. | F.I. | | | | | | | +Piano Secondo.Q Aula S.2.3 |
| | 1 | | 27/05/2011 | VISTO | G.N. | | | | | | | FOGLIO 123 DI 144 |
| | REV. | MODIFICA | | DATA | FIRMA | APPR. | M.R. | SOST. IL: | SOST. DA: | ORIGINE: | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |

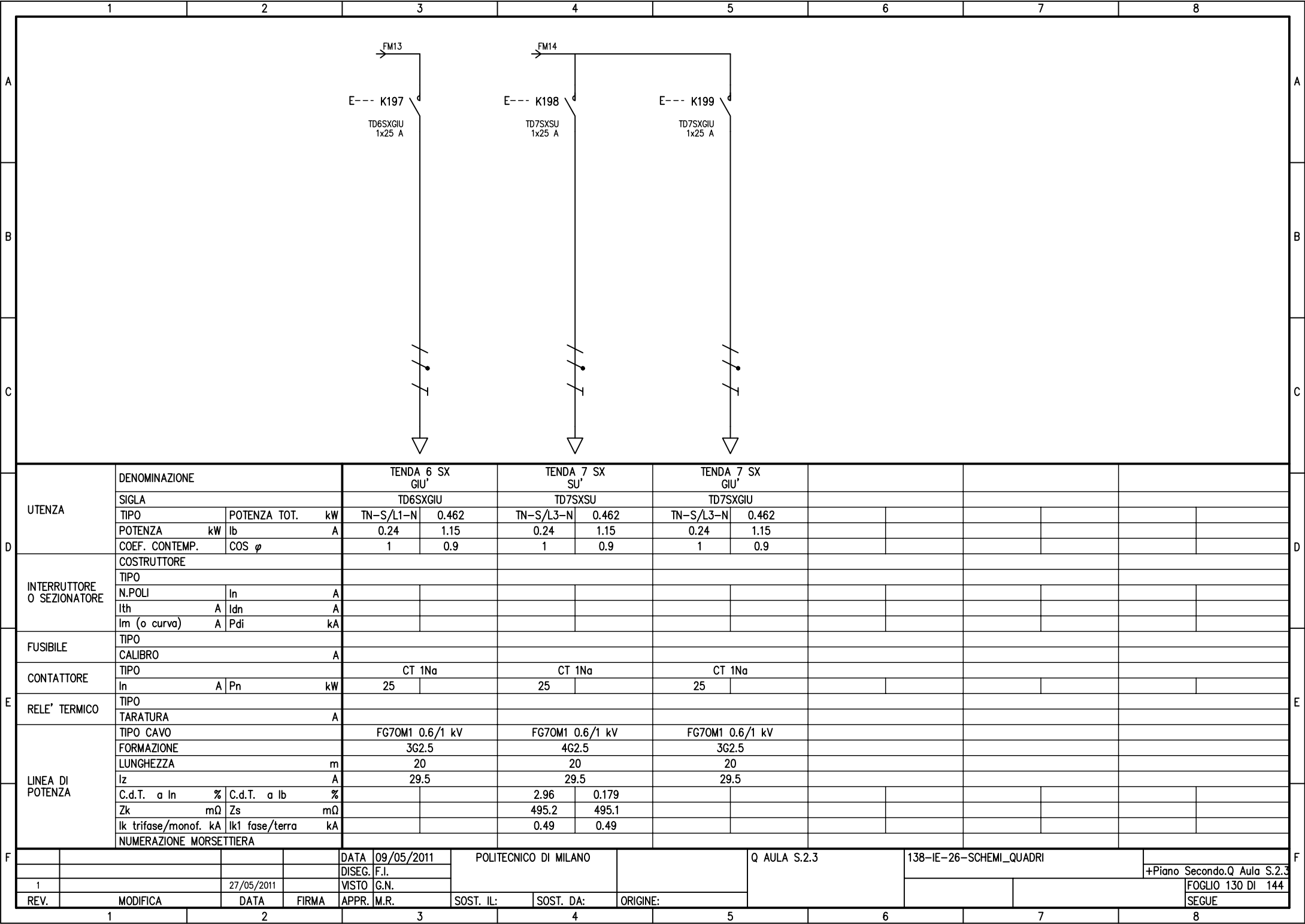




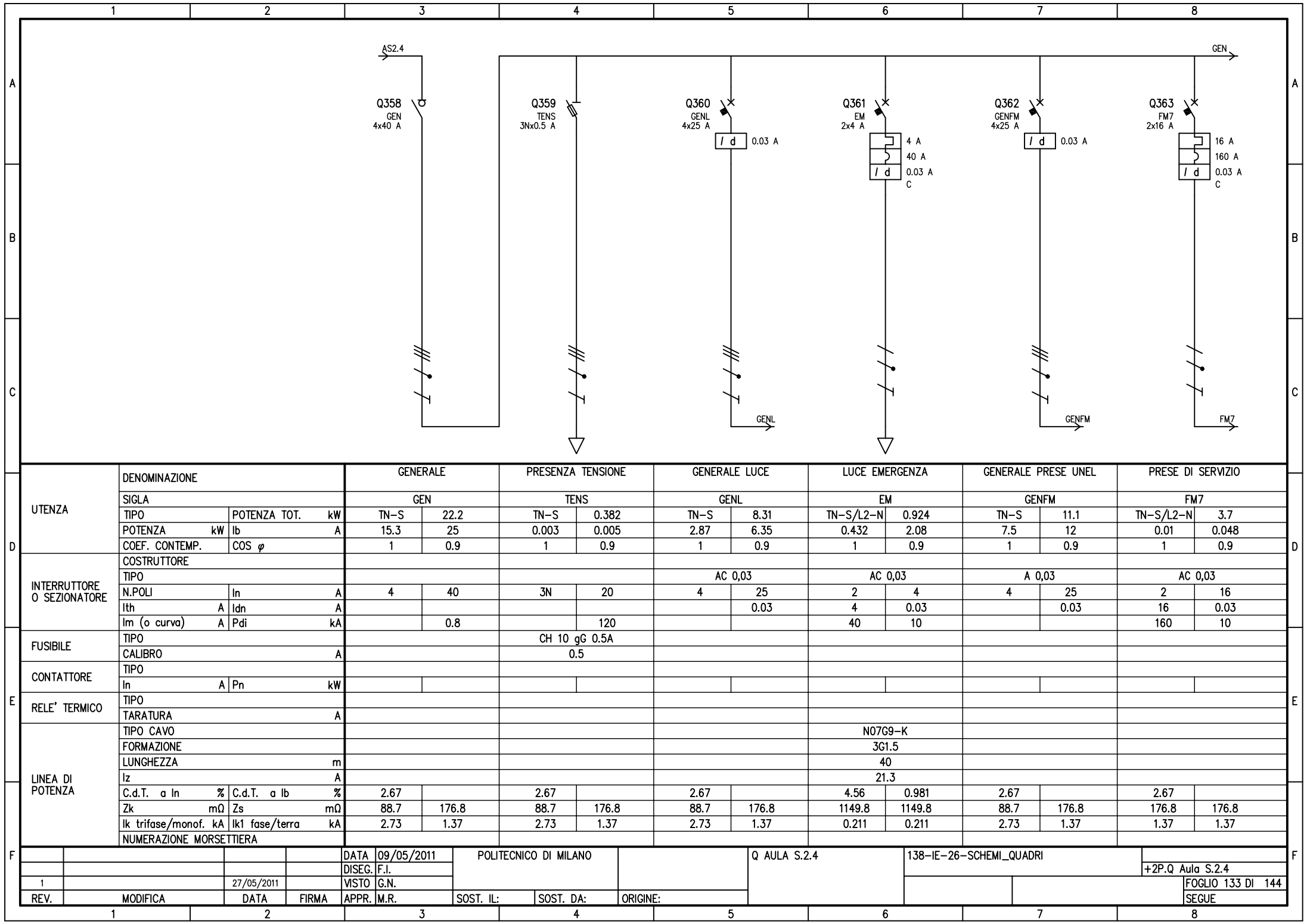


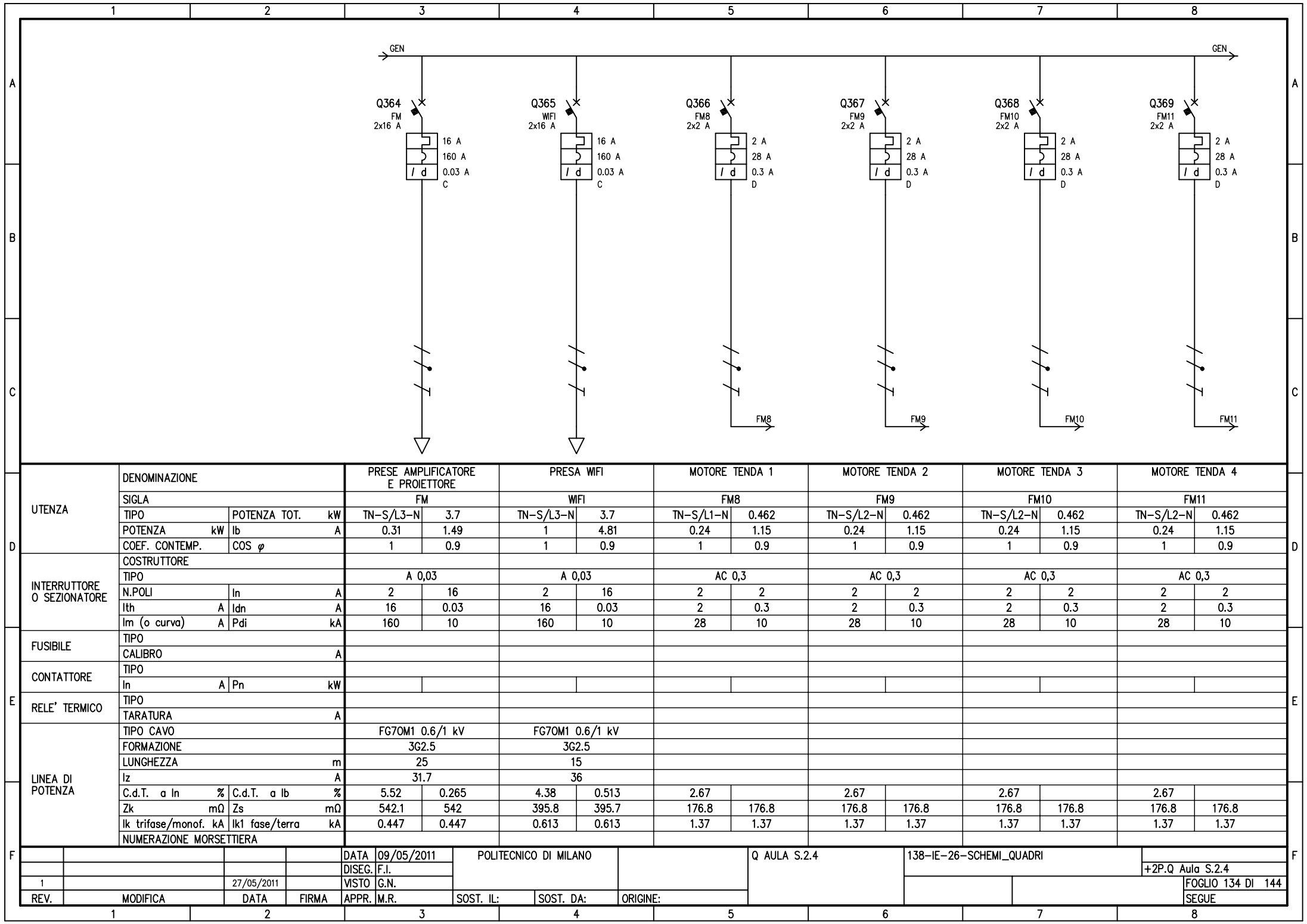


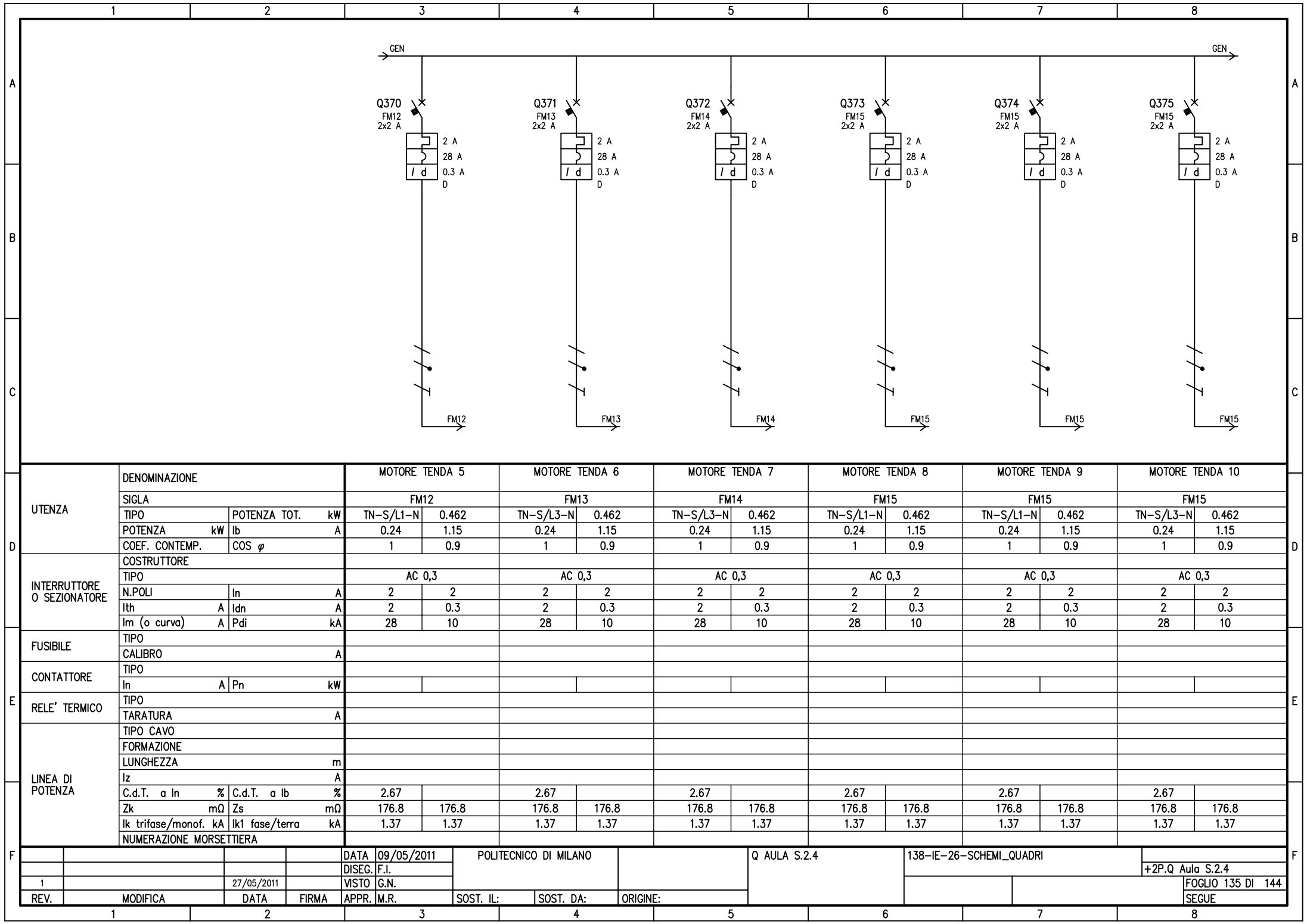


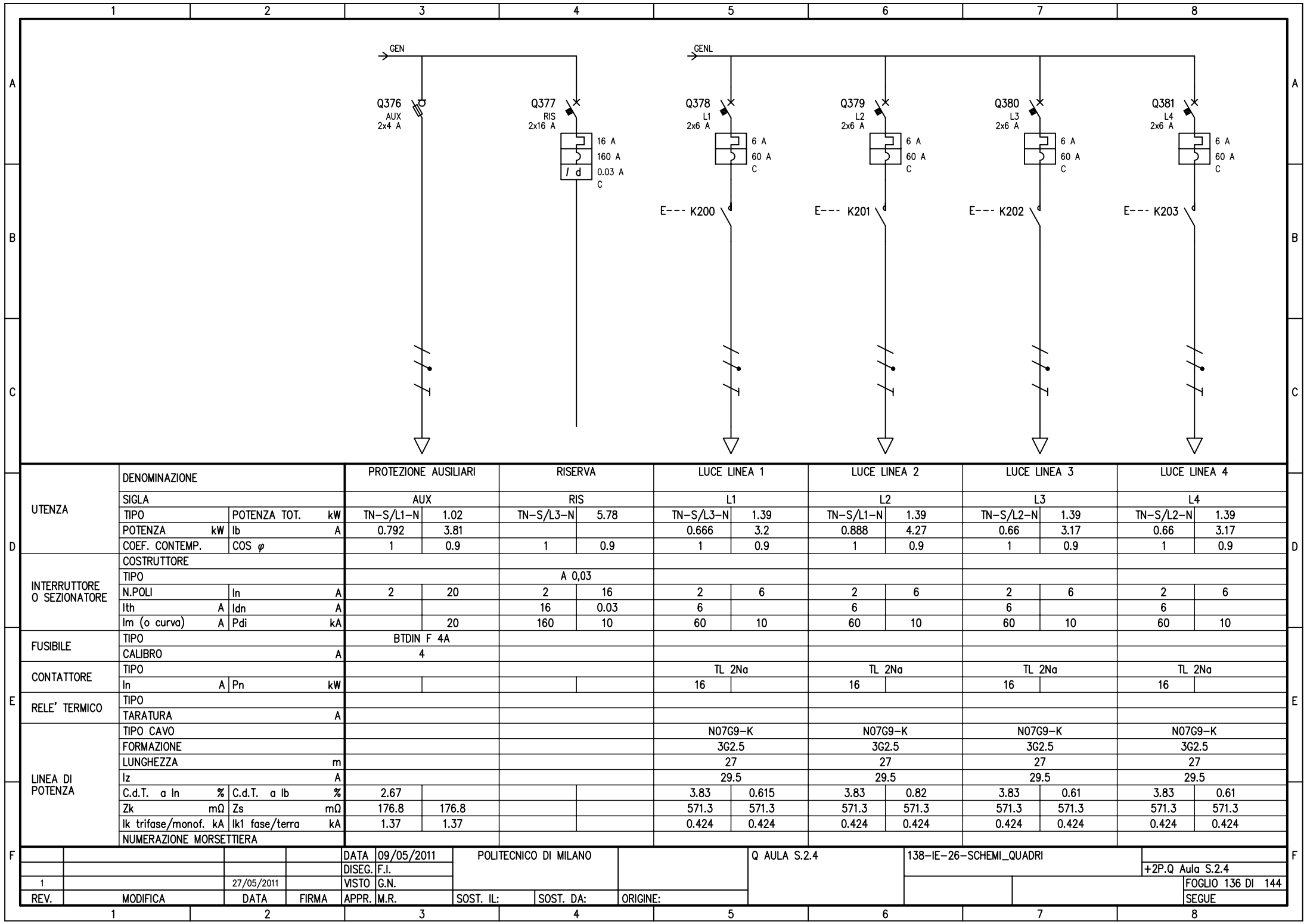


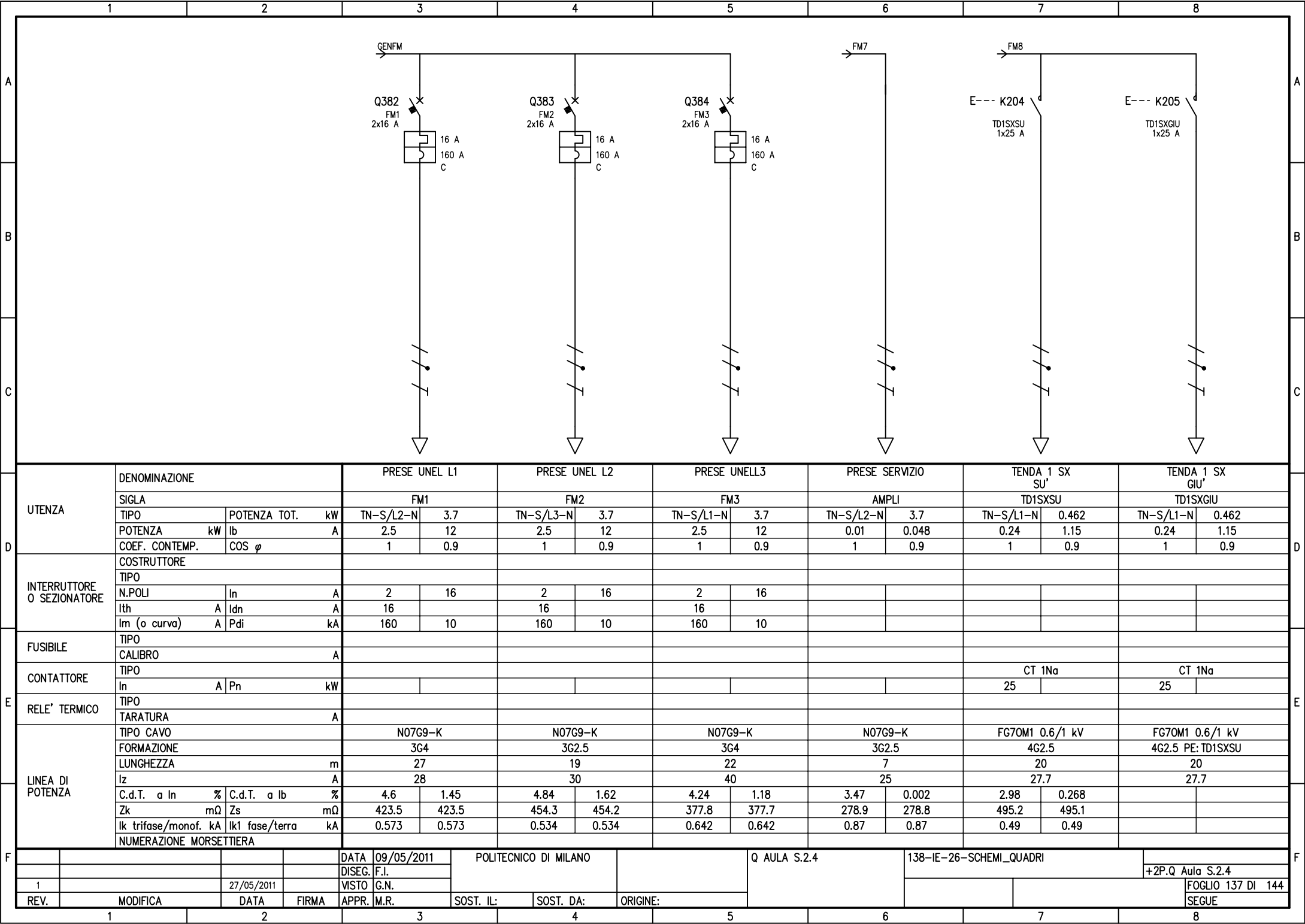
| | | | | | | | | | | | | |
|---|------------------------------|----------|--------------|--------|------------|-----------------------|-----------|-----------|--------------|-------------------------|--|-------------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| A | | | | | | | | | A | | | |
| B | Potenza | | 15.3 kW | | | | | | | | | |
| | Caduta di tensione (Tot. Ib) | | 2.13 % | | | | | | | | | |
| | Corrente di guasto (Ikmax) | | 2.73 kA | | | | | | | | | |
| | Zona | | 2P | | | | | | | | | |
| | Quadro | | Q Aula S.2.4 | | | | | | | | | |
| C | | | | | | | | | C | | | |
| D | | | | | | | | | D | | | |
| E | | | | | | | | | E | | | |
| F | | | | DATA | 09/05/2011 | POLITECNICO DI MILANO | | | Q AULA S.2.4 | 138-IE-26-SCHEMI_QUADRI | | |
| | | | | DISEG. | F.I. | | | | | | | +2P.Q Aula S.2.4 |
| | 1 | | 27/05/2011 | VISTO | G.N. | | | | | | | FOGLIO 132 DI 144 |
| | REV. | MODIFICA | DATA | FIRMA | APPR. | M.R. | SOST. IL: | SOST. DA: | ORIGINE: | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |

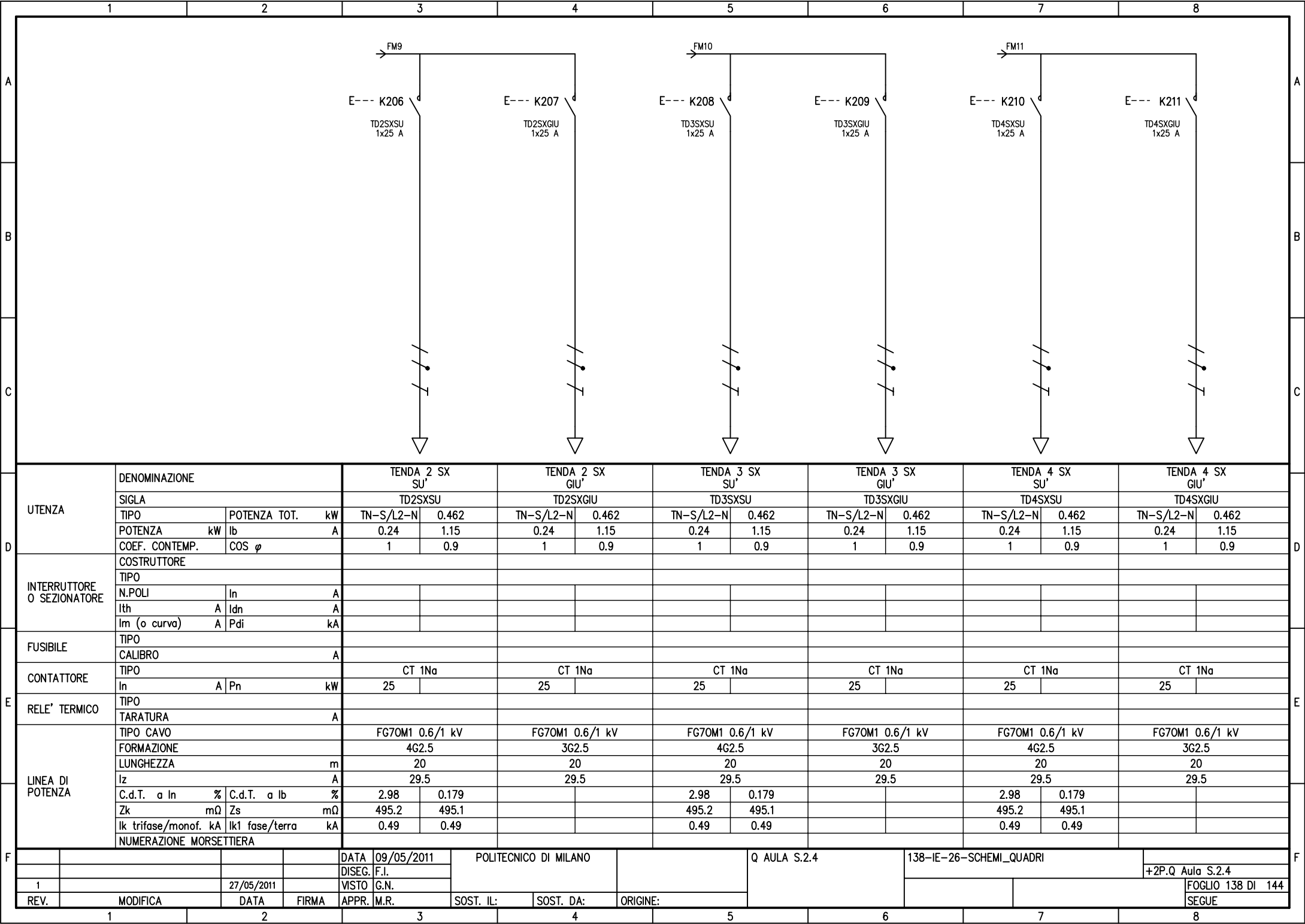


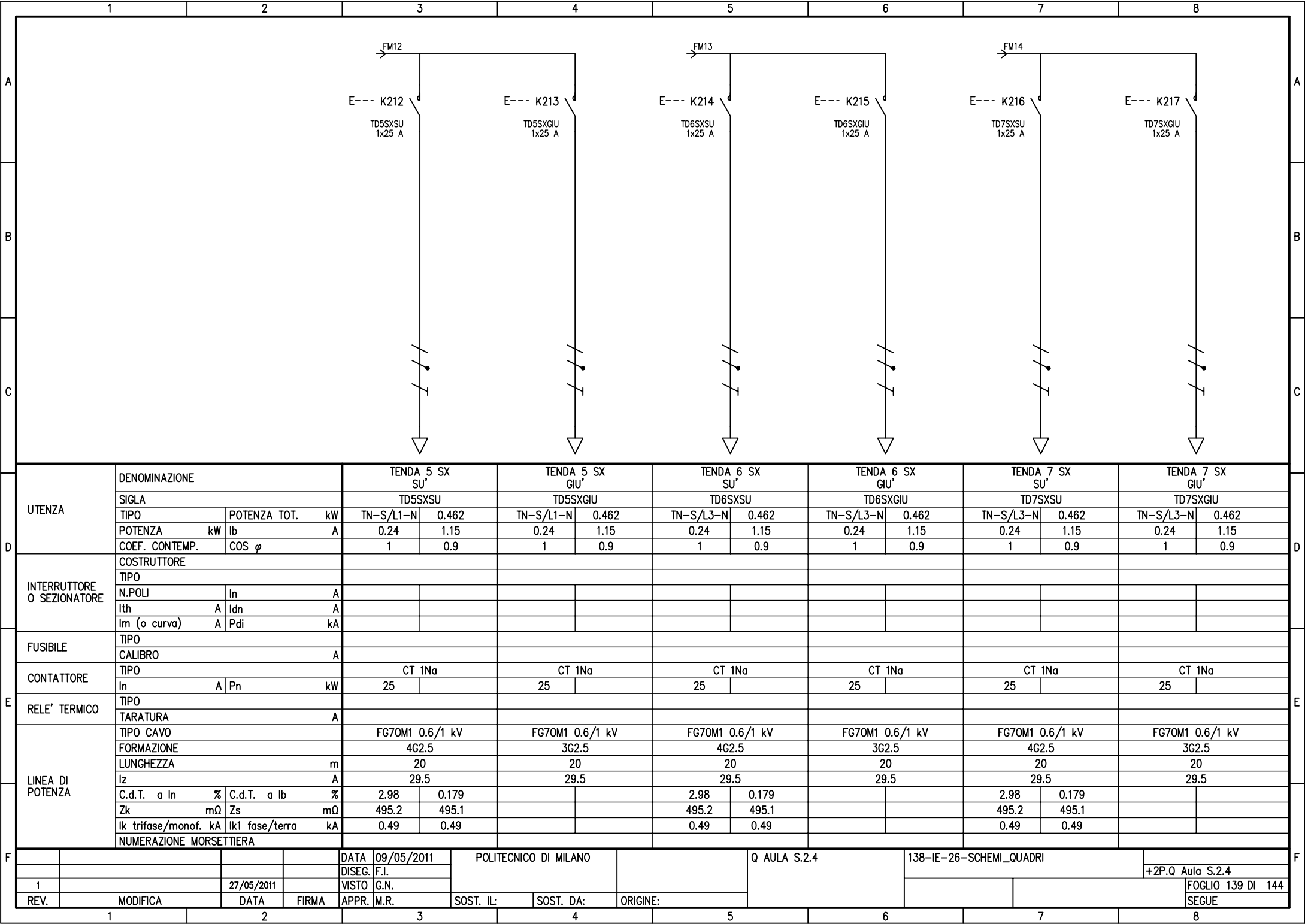


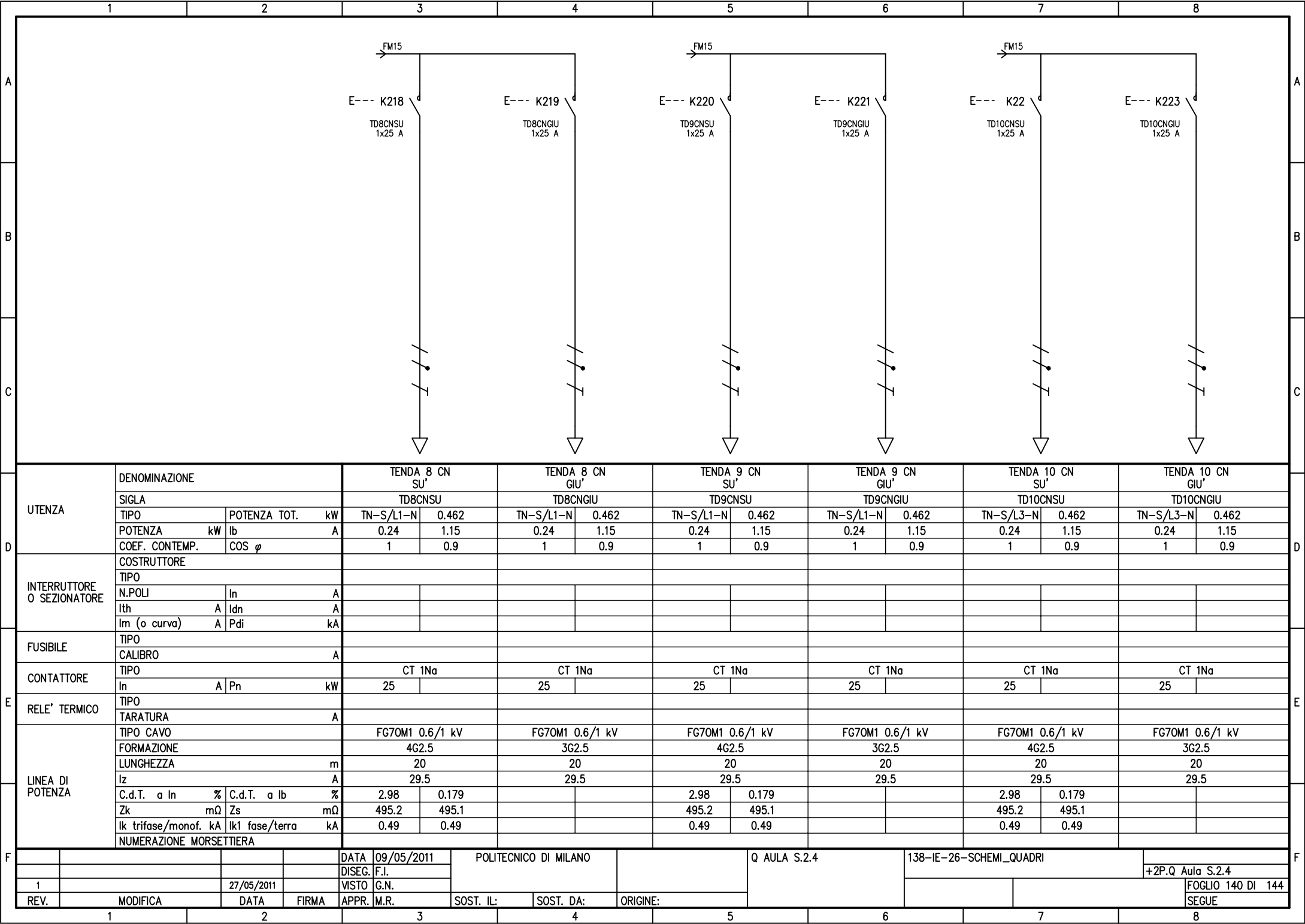




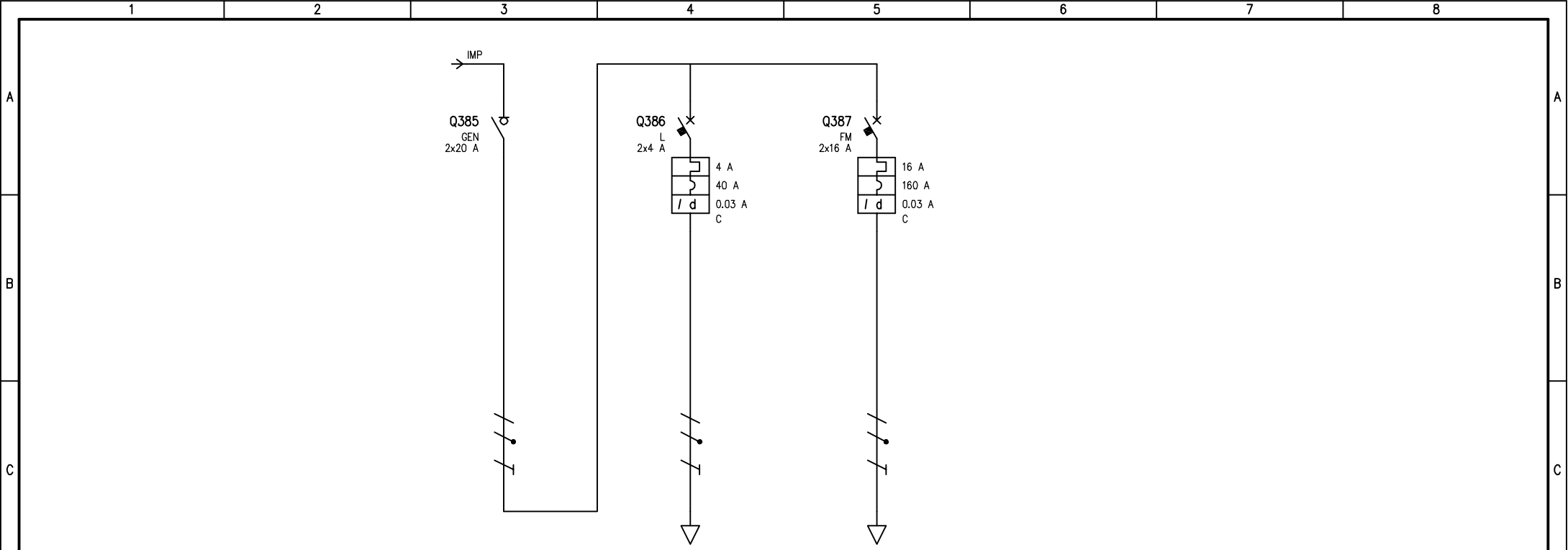




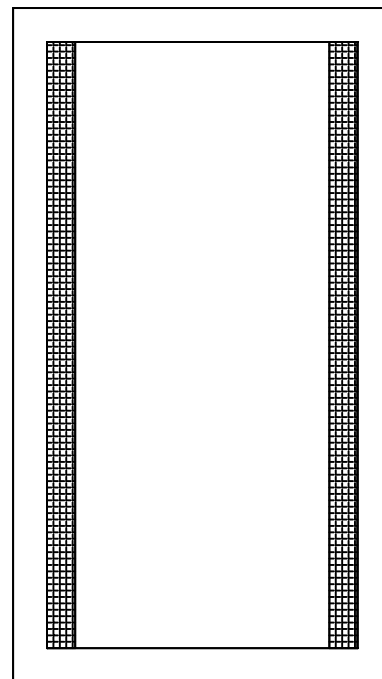




| | | | | | | | | | | | | |
|---|------------------------------|----------|-----------------|--------|------------|-----------------------|-----------|-----------|-------------------|-------------------------|--|---------------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| A | | | | | | | | | A | | | |
| B | Potenza | | 2.36 kW | | | | | | | | | |
| | Caduta di tensione (Tot. Ib) | | 2.64 % | | | | | | | | | |
| | Corrente di guasto (Ikmax) | | 2.01 kA | | | | | | | | | |
| | Zona | | PI | | | | | | | | | |
| | Quadro | | LOCALE IMPIANTI | | | | | | | | | |
| C | | | | | | | | | C | | | |
| D | | | | | | | | | D | | | |
| E | | | | | | | | | E | | | |
| F | | | | DATA | 09/05/2011 | POLITECNICO DI MILANO | | | Q LOCALE IMPIANTI | 138-IE-26-SCHEMI_QUADRI | | |
| | | | | DISEG. | F.I. | | | | | | | +PI.LOCALE IMPIANTI |
| | 1 | | 27/05/2011 | VISTO | G.N. | | | | | | | FOGLIO 142 DI 144 |
| | REV. | MODIFICA | DATA | FIRMA | APPR. | M.R. | SOST. IL: | SOST. DA: | ORIGINE: | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |



| | | | | | | | | | | | | | | | | |
|-------------|-------------------------------|----------------|---------------|-------------------|-------------|------------|-----------------------|-------|-----------------|-------------------|----------|-------------------------|-------------------|---------------------|---|--|
| D | UTENZA | DENOMINAZIONE | | | GENERALE | | LUCE | | PRESE | | | | | | | |
| | | SIGLA | | | GEN | | L | | FM | | | | | | | |
| | | TIPO | POTENZA TOT. | kW | TN-S/L1-N | 3.7 | TN-S/L1-N | 0.924 | TN-S/L1-N | 3.7 | | | | | | |
| | | POTENZA | kW | lb | A | 2.36 | 11.4 | 0.36 | 1.73 | 2 | 9.62 | | | | | |
| | | COEF. CONTEMP. | COS φ | | 1 | 0.9 | 1 | 0.9 | 1 | 0.9 | | | | | | |
| | INTERRUTTORE O SEZIONATORE | COSTRUTTORE | | | | | | | | | | | | | | |
| | | TIPO | | | | | AC 0,03 | | AC 0,03 | | | | | | | |
| | | N.POLI | In | A | 2 | 20 | 2 | 4 | 2 | 16 | | | | | | |
| | | lth | A | Idn | A | | | 4 | 0.03 | 16 | 0.03 | | | | | |
| | | Im (o curva) | A | Pdi | kA | | 0.4 | 40 | 16 | 160 | 16 | | | | | |
| E | FUSIBILE | TIPO | | | | | | | | | | | | | | |
| | | CALIBRO | | | A | | | | | | | | | | | |
| | CONTATTORE | TIPO | | | | | | | | | | | | | | |
| | | In | A | Pn | kW | | | | | | | | | | | |
| | RELE' TERMICO | TIPO | | | | | | | | | | | | | | |
| | | TARATURA | | | A | | | | | | | | | | | |
| | LINEA DI POTENZA | TIPO CAVO | | | | | FG70M1 0.6/1 kV | | FG70M1 0.6/1 kV | | | | | | | |
| | | FORMAZIONE | | | | | 3G1.5 | | 3G4 | | | | | | | |
| | | LUNGHEZZA | | | m | | 10 | | 10 | | | | | | | |
| | | Iz | | | A | | 22 | | 40 | | | | | | | |
| C.d.T. a In | | % | C.d.T. a lb | % | 3.16 | | 3.63 | 0.204 | 3.87 | 0.429 | | | | | | |
| Zk | | mΩ | Zs | mΩ | 120.6 | 120.6 | 363.1 | 363.1 | 211.6 | 211.6 | | | | | | |
| | Ik trifase/monof. kA | | | Ik1 fase/terra kA | | 2.01 | 2.01 | 0.668 | 0.668 | 1.15 | 1.15 | | | | | |
| | NUMERAZIONE MORSETTIERA | | | | | | | | | | | | | | | |
| F | | | | | DATA | 09/05/2011 | POLITECNICO DI MILANO | | | Q LOCALE IMPIANTI | | 138-IE-26-SCHEMI_QUADRI | | | | |
| | | | | | DISEG. F.I. | | | | | | | | | +PI.LOCALE IMPIANTI | | |
| | 1 | | | 27/05/2011 | | VISTO | G.N. | | | | | | FOGLIO 143 DI 144 | | | |
| | REV. | MODIFICA | | | DATA | FIRMA | APPR. | M.R. | SOST. IL: | SOST. DA: | ORIGINE: | | | SEGUE | | |
| 1 | | 2 | | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | |



| | | | | | | | | | | | | | |
|------|----------|------------|-------|--------|------------|-----------------------|-----------|----------|-------------------|-------------------------|--|---------------------|--|
| | | | | DATA | 09/05/2011 | POLITECNICO DI MILANO | | | Q LOCALE IMPIANTI | 138-IE-26-SCHEMI_QUADRI | | | |
| | | | | DISEG. | F.I. | | | | | | | +PI.LOCALE IMPIANTI | |
| 1 | | 27/05/2011 | | VISTO | G.N. | | | | | | | FOGLIO 144 DI 144 | |
| REV. | MODIFICA | DATA | FIRMA | APPR. | M.R. | SOST. IL: | SOST. DA: | ORIGINE: | | | | SEGUE | |