

REMATIC, DMS3,
24 V DC (2P)
(3P)
PROFIBUS DP V0/V1 MODBUS RTU.
: LED (RS-232).
a a
« - ».



DMS3

- 220 V AC
- T
- a
- 60 % 100 %
- 2 R1, R2 (18)
- READY
- - 0/4 - 20 mA, 4 - 12 mA, 12 - 20 mA 0/2 - 10 V
- 24 V DC - , ,
- 24 V DC - , ,
- ESD ()
- - 4 - 20 mA a ()
- 24 V DC, 40
- LED
- (, , .)
- RS 232
- ISO 5211
- IP 67
- RE3, RE4, RE5
- RE1, RE2, RE3, RE4, RE5, READY
- PROFIBUS DP V0/V1,
- MODBUS RTU,

SPR 1PA

231. x - x x x x x / x x

| 10) | | | 12) | | | | | |
|-------|-----|-----------|------------------------|-------|-------|-------|----------------------|---|
| | | | o | e | | | | |
| 15150 | () | 60721-2-1 | (R)+WDr, MWDr, EWDr | C3 | -25°C | +55°C | IP 67 | 1 |
| | | | | C4 | -25°C | +55°C | IP 67 | 2 |
| | | | | C3 | -25°C | +55°C | IP 68 ¹¹⁾ | 5 |
| | () | (M) | C3 | -50°C | +40°C | IP 67 | 3 | |
| | () | | C3 | -25°C | +55°C | IP 67 | 6 | |
| | () | | (WW) | C4 | -50°C | +40°C | IP 67 | 7 |
| | () | | | | | | | |

| | | 23) | | | |
|-------|------------|----------------------------------|---------------------------------|---|--|
| | 50 Hz | 230 V AC | Z514, Z523, Z515 Z574, Z574c | 0 | |
| | | 220 V AC | | L | |
| | | 24 V AC | | 3 | |
| | 60 Hz | 240 V AC | Z514, Z523, Z515 Z574, Z574c | V | |
| | | 120 V AC | | T | |
| | | 24 V AC | | J | |
| 50 Hz | 3x400 V AC | Z532, Z536, Z537 Z574e, Z574b | 2 | | |
| | 3x380 V AC | | N | | |

| | | 32) | | 33) | | |
|-------|-------|-------|-------|-------------------------|----------|---|
| | | « - » | | 50 Hz | 60 Hz | |
| 46 Nm | 40 Nm | - | - | 10 s/90° | 8 s/90° | 0 |
| 90 Nm | 80 Nm | 63 Nm | 63 Nm | 20 s/90° | 17 s/90° | 1 |
| 90 Nm | 80 Nm | 63 Nm | 63 Nm | 40 s/90° | 34 s/90° | 2 |
| 72 Nm | 63 Nm | 50 Nm | 50 Nm | 80 s/90° ³⁴⁾ | 67 s/90° | 3 |

| | 42) | 60° | A |
|--|-----|-------------|---|
| | | 90° | B |
| | | 120° | C |
| | | 160° | D |
| | | 50° - 120° | M |
| | | 90° - 160° | N |
| | | 160° - 360° | P |

| DMS3 | 2P | 24 V DC | | - | Z515, Z537 | F |
|---------|-------|---------------------|---------|-----------|--------------|---|
| | 3P/2P | 0/4 - 20 mA | 24 V DC | 4 - 20 mA | Z514, Z532 | G |
| | | 0/2 - 10 V | | | Z523, Z536 | H |
| DMS3 M1 | / 2P | MODBUS RTU | 24 V DC | - | Z574c, Z574e | M |
| DMS3 M2 | | | | | Z574, Z574b | N |
| DMS3 P1 | | PROFIBUS DP V0 / V1 | | | Z574c, Z574e | P |
| DMS3 P2 | | | | | Z574, Z574b | R |

SPR 1PA

231. x - x x x x x / x x

| | | | | | |
|------------|--------------------|------|--------------------|---|--|
| ISO 5211 | | ISO | | P-1147 P-2032 ⁶⁶⁾ | A B C D E F G H Q N P R S T U V W Z |
| | | D-14 | 14x14 | | |
| F05/F07 | | L-14 | 14x22 | P-1162 P-0210, P-2032 ⁶⁶⁾ | J |
| | | H-14 | 14x22 | | K |
| | | V-20 | Ø20 ⁶²⁾ | | L |
| | | D-17 | 17x17 | | |
| | | L-17 | 17x17 | | |
| | | H-11 | 11x18 | | |
| | | D-11 | 11x11 | | |
| | | L-11 | 11x11 | | |
| | | H-8 | 8x13 | | |
| | | V-17 | Ø17 ⁶²⁾ | | |
| | | D-16 | 16x16 | | |
| | | L-16 | 16x16 | | |
| | | H-10 | 10x16 | | |
| | | V-18 | Ø18 ⁶²⁾ | | |
| V-30 | Ø30 ⁶³⁾ | | | | |
| - | Ø 8 ⁶⁴⁾ | | | | |
| H-17 | 17x25 | | | | |
| , | | - | E01 | Ø22 | |
| + | | - | - | - | |
| + + TV 360 | | - | - | - | |

| | | | | |
|--|---|-------|---|---|
| 90°. | | - | | |
| A | | - | 0 | 1 |
| B | | - | 0 | 3 |
| D | RE3, RE4, RE5 (DMS3 RE3) ⁷¹⁾ | Z500a | 0 | 5 |
| E | RE1, RE2, RE3, RE4, RE5, READY (DMS3 RE6) ⁷¹⁾ | Z500 | 0 | 6 |
| F | LCD (P-2032. ⁶⁶⁾ -25°C) | Z473a | 0 | 7 |
| : A+B=20, A+D=22, A+E=23, A+F=24, B+D=29, B+E=30, B+F=31, D+F=40 ,E+F=44, A+B+D=52, A+B+E=53, A+B+F=54, A+D+F=63, A+E+F=67, B+D+F=80, B+E+F=84, A+B+E+F=113, A+B+D+F=114 | | | | |

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|------------|-----------|
| DB-9F/RJ45 | 224A80100 |
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10) « » .2.
 23) S2-10 min a S4-25% 90 / .
 32) S4-25% ,90 - 1200 / .
 33) 3x380/3x400 VAC.
 34) ().
 42) .
 62) Ø8.
 63) .
 64) .
 65) c DMS3 P-2032.
 66) 230/220 VAC 3x400/3x380 VAC.
 71) PROFIBUS MODBUS RTU.

SPR 2PA

| | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|
| 232. | x | - | x | x | x | x | x | / | x | x |
|------|---|---|---|---|---|---|---|---|---|---|

| 10) | | | 12) | | | o e | | |
|-------|-----|-----------|------------------------|-------------|-------------|----------------------|---|--|
| 15150 | () | 60721-2-1 | (R)+WDr, MWDr, EWDr | C3 | -25°C +55°C | IP 67 | 1 | |
| | | | | C4 | -25°C +55°C | IP 67 | 2 | |
| | | | | C3 | -25°C +55°C | IP 68 ¹¹⁾ | 5 | |
| | () | (M) | C3 | -50°C +40°C | IP 67 | 3 | | |
| | () | | C3 | -25°C +55°C | IP 67 | 6 | | |
| | () | (WW) | C4 | -50°C +40°C | IP 67 | 7 | | |

| | | 23) | | | |
|------------|-------|------------|-------------------------------------|---------------------|---|
| | 50 Hz | 230 V AC | Z514, Z515, Z523, Z574, Z574c | 0 | |
| | | 220 V AC | | L | |
| | 60 Hz | 120 V AC | Z532b, Z536b, Z537b Z574a, Z574d | T | |
| | | 3x400 V AC | | 2 | |
| | c | 50 Hz | 3x380 V AC | Z532f, Z536f, Z537f | N |
| | | | 3x400 V AC | | E |
| 3x380 V AC | | | F | | |

| | | 32) | | 33) | | |
|--------|--------|--------|---|-------------------------|----------|---|
| | | « - » | | 50 Hz | 60 Hz | |
| 72 Nm | 63 Nm | - | - | 5 s/90° | 4 s/90° | 0 |
| 145 Nm | 125 Nm | 100 Nm | | 10 s/90° | 8 s/90° | 1 |
| | | | | 20 s/90° | 17 s/90° | 2 |
| | | | | 40 s/90° | 34 s/90° | 3 |
| | | | | 80 s/90° ³⁴⁾ | 67 s/90° | 4 |

| | 42) | 60° | A |
|--|-----|-------------|---|
| | | 90° | B |
| | | 120° | C |
| | | 160° | D |
| | | 50° - 120° | M |
| | | 90° - 160° | N |
| | | 160° - 360° | P |

| DMS3 | 2P | 24 V DC | | - | Z515, Z537b, Z537f | F |
|---------|-------|------------------------|---------|-----------|-----------------------|---|
| | 3P/2P | 0/4 - 20 mA | 24 V DC | 4 - 20 mA | Z514, Z532b, Z532f | G |
| | | 0/2 - 10 V | | | Z523, Z536b, Z536f | H |
| DMS3 M1 | / 2P | MODBUS RTU | 24 V DC | - | Z574c, Z574d | M |
| DMS3 M2 | | | | | Z574, Z574a | N |
| DMS3 P1 | | PROFIBUS DP V0 / V1 | | | Z574c, Z574d | P |
| DMS3 P2 | | | | | Z574, Z574a | R |

SPR 2PA

232. x - x x x x x / x x

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|------------|---------|------|--------------------|---|
| | | ISO | | |
| ISO 5211 | F05/F07 | D-17 | 17x17 | A |
| | | L-17 | | B |
| | | H-17 | | C |
| | | V-28 | Ø28 ⁶²⁾ | D |
| | | H-11 | 11x18 | N |
| | | D-16 | 16x16 | R |
| | | L-16 | | S |
| | | D-14 | 14x14 | E |
| | | L-14 | | F |
| | | H-14 | 14x22 | G |
| | | V-22 | Ø22 ⁶²⁾ | H |
| | | V-30 | Ø30 ⁶³⁾ | V |
| | | - | Ø8 ⁶⁴⁾ | W |
| | | H-13 | 13x19 | Z |
| - | E05 | Ø25 | J | |
| - | - | - | K | |
| + + TV 360 | - | - | - | L |

| | | | | |
|---|---|-------|---|---|
| | | | | |
| | 90°. | - | | |
| A | | - | 0 | 1 |
| B | | - | 0 | 3 |
| D | RE3, RE4, RE5 (DMS3 RE3) ⁷¹⁾ | Z500a | 0 | 5 |
| E | RE1, RE2, RE3, RE4, RE5, READY (DMS3 RE6) ⁷¹⁾ | Z500 | 0 | 6 |
| F | LCD (P-2032. 66) -25°C) | Z473a | 0 | 7 |

: A+B=20, A+D=22, A+E=23, A+F=24, B+D=29, B+E=30, B+F=31, D+F=40, E+F=44, A+B+D=52, A+B+E=53, A+B+F=54, A+D+F=63, A+E+F=67, B+D+F=80, B+E+F=84, A+B+E+F=113, A+B+D+F=114

| | |
|------------|-----------|
| DB-9F/RJ45 | 224A80100 |
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10) « » .2.
 23) « » .
 32) S2-10 min a S4-25% 90 / / .
 33) S4-25% , 90 - 1200 / / .
 34) 3x380/3x400 V AC.
 42) « » .
 62) () .
 63) « » .
 64) Ø8.
 65) « » .
 66) c DMS3 P-2032.
 71) PROFIBUS MODBUS RTU. 230/220 V AC 3x400/3x380 V AC.

SPR 2.3PA

233. x - x x x x x / x x

| 10) | | | 12) | | o e | | |
|-------|-----|-----------|------------------------|-------------|-------------|----------------------|---|
| 15150 | () | 60721-2-1 | (R)+WDr, MWDr, EWDr | C3 | -25°C +55°C | IP 67 | 1 |
| | | | | C4 | -25°C +55°C | IP 67 | 2 |
| | | | | C3 | -25°C +55°C | IP 68 ¹¹⁾ | 5 |
| | () | (M) | C3 | -50°C +40°C | IP 67 | 3 | |
| | () | | C3 | -25°C +55°C | IP 67 | 6 | |
| | () | (WW) | C4 | -50°C +40°C | IP 67 | 7 | |

| | | 23) | | |
|---|------------|---------------------|-------------------------------------|---|
| | 50 Hz | 230 V AC | Z514, Z515, Z523, Z574, Z574c | 0 |
| | | 220 V AC | | L |
| | | 120 V AC | | T |
| | 60 Hz | 3x400 V AC | Z532b, Z536b, Z537b Z574a, Z574d | 2 |
| | | 3x380 V AC | | N |
| | | 3x400 V AC | | E |
| c | 3x380 V AC | Z532f, Z536f, Z537f | F | |

| | | 32) | | 33) | | |
|--------|--------|--------|--------------------------|-----------|---|--|
| « - » | | 50 Hz | 60 Hz | | | |
| 290 Nm | 250 Nm | 200 Nm | 20 s/90° | 16 s/90° | 0 | |
| | | | 40 s/90° | 34 s/90° | 1 | |
| | | | 80 s/90° | 67 s/90° | 2 | |
| | | | 160 s/90° ³⁴⁾ | 135 s/90° | 3 | |

| | 42) | 60° | A |
|--|-----|-------------|---|
| | | 90° | B |
| | | 120° | C |
| | | 160° | D |
| | | 50° - 120° | M |
| | | 90° - 160° | N |
| | | 160° - 360° | P |

| | | 24 V DC | | | | |
|---------|-------|---------------------|---------|-----------|-----------------------|-----------------------|
| DMS3 | 2P | | | - | Z515, Z537b, Z537f | F |
| | 3P/2P | 0/4 - 20 mA | 24 V DC | 4 - 20 mA | Z514, Z532b, Z532f | G |
| | | 0/2 - 10 V | | | | Z523, Z536b, Z536f |
| DMS3 M1 | / 2P | MODBUS RTU | 24 V DC | - | Z574c, Z574d | M |
| DMS3 M2 | | | | | Z574, Z574a | N |
| DMS3 P1 | | | | | Z574c, Z574d | P |
| DMS3 P2 | | | | | Z574, Z574a | R |
| | | PROFIBUS DP V0 / V1 | | | | |

SPR 2.4PA

234. x - x x x x x / x x

| 10) | | | 12) | | o e | | |
|-------|-----|-----------|------------------------|-------------|-------------|----------------------|---|
| 15150 | () | 60721-2-1 | (R)+WDr, MWDr, EWDr | C3 | -25°C +55°C | IP 67 | 1 |
| | | | | C4 | -25°C +55°C | IP 67 | 2 |
| | | | | C3 | -25°C +55°C | IP 68 ¹¹⁾ | 5 |
| | () | (M) | C3 | -50°C +40°C | IP 67 | 3 | |
| | () | | C3 | -25°C +55°C | IP 67 | 6 | |
| | () | | (WW) | C4 | -50°C +40°C | IP 67 | 7 |

| | | 23) | | | |
|------------|-------|----------|----------------------------------|-------------------------------------|---|
| | 50 Hz | 230 V AC | Z514, Z515, Z523, Z574, Z574c | 0 | |
| | | 220 V AC | | L | |
| | | 120 V AC | | T | |
| | c | 50 Hz | 3x400 V AC | Z532b, Z536b, Z537b Z574a, Z574d | 2 |
| | | | 3x380 V AC | | N |
| | | 50 Hz | 3x400 V AC | Z532f, Z536f, Z537f | E |
| 3x380 V AC | | | F | | |

| | | 32) | 33) | | |
|--------|--------|--------|-----|--------------------------|-----------|
| « - » | | | | 50 Hz | 60 Hz |
| 575 Nm | 500 Nm | 400 Nm | | 40 s/90° | 34 s/90° |
| | | | | 80 s/90° | 68 s/90° |
| | | | | 160 s/90° ³⁴⁾ | 135 s/90° |

| | 42) | 60° |
|--|-------------|------------|
| | | 90° |
| | | 120° |
| | | 160° |
| | - | 50° - 120° |
| | | 90° - 160° |
| | 160° - 360° | |

| DMS3 | 2P | 24 V DC | | - | Z515, Z537b, Z537f | F |
|------------|-------|---------------------|---------|-----------------------|-----------------------|-----------------------|
| | 3P/2P | 0/4 - 20 mA | 24 V DC | | 4 - 20 mA | Z514, Z532b, Z532f |
| 0/2 - 10 V | | | | Z523, Z536b, Z536f | | H |
| DMS3 M1 | / 2P | MODBUS RTU | | 24 V DC | Z574c, Z574d | M |
| DMS3 M2 | | | | | Z574, Z574a | N |
| DMS3 P1 | | PROFIBUS DP V0 / V1 | | | Z574c, Z574d | P |
| DMS3 P2 | | | | | Z574, Z574a | R |

SPR 2.4PA

234. x - x x x x x / x x

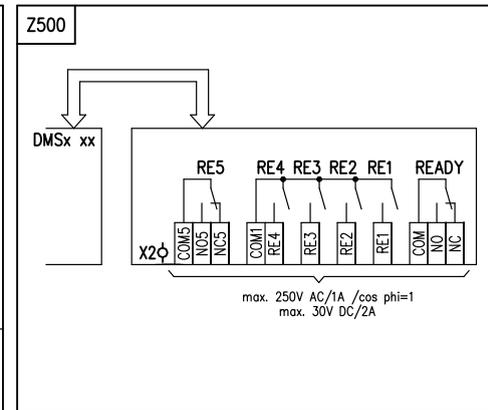
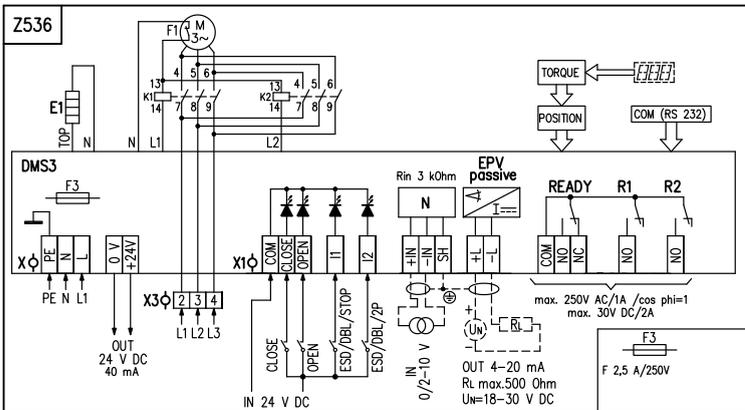
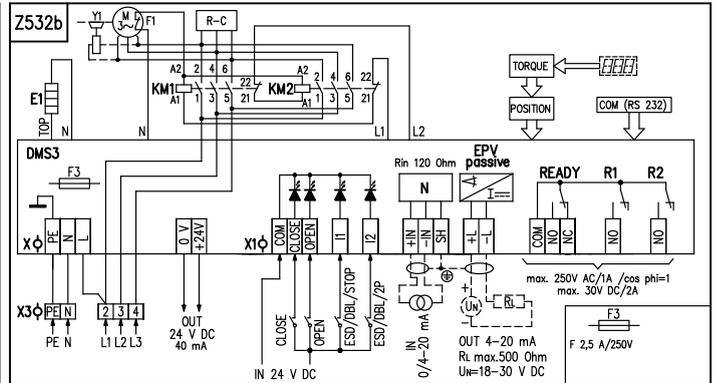
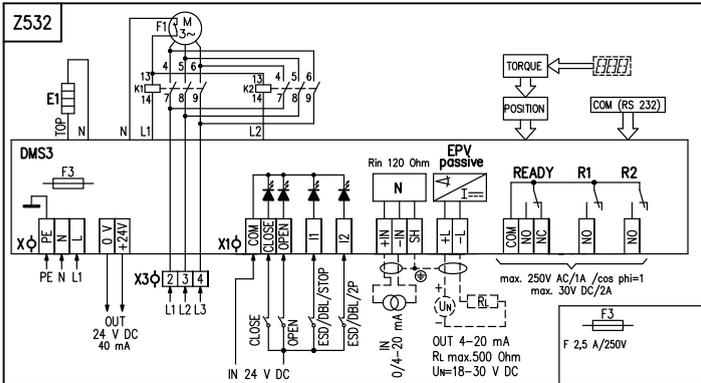
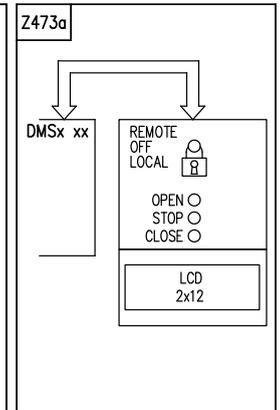
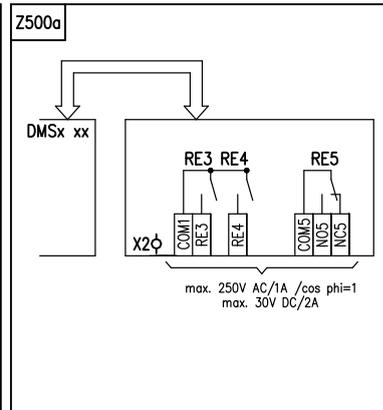
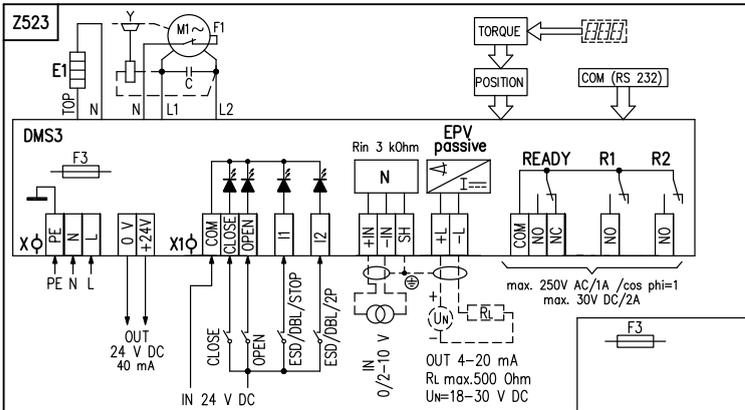
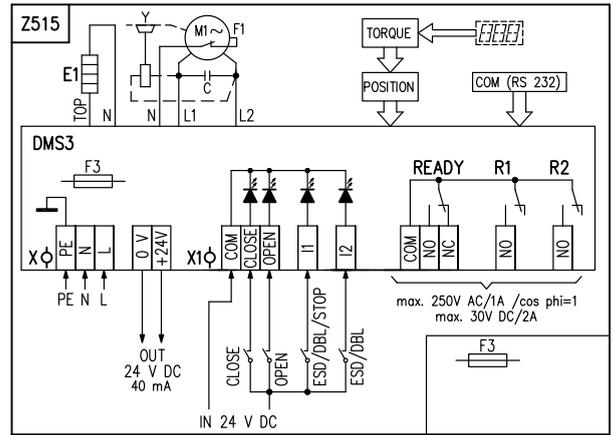
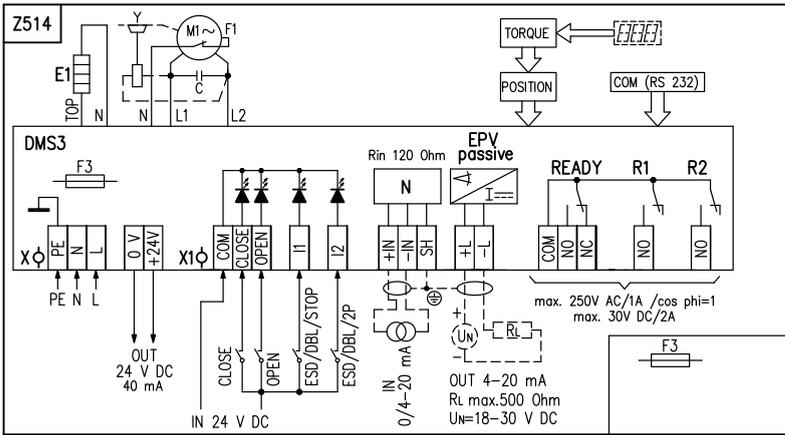
| | | | | | |
|----------------|---------|--------|----------------------|---|---|
| | | ISO | | | |
| ISO 5211 | F10/F12 | D-27 | 27x27 | P-1147 P-2032 ⁶⁶⁾ | A |
| | | L-27 | | | B |
| | | H-27 | 27x48 ⁶²⁾ | | C |
| | | V-50 | Ø50 ⁶²⁾ | | D |
| | | D-22 | 22x22 | | E |
| | | L-22 | | | F |
| | | H-22 | 22x32 | | G |
| | | V-42 | Ø42 | | H |
| | | - | - ⁶⁵⁾ | | M |
| | | H-16 | 16x22 | | N |
| | | H-19 | 19x28 | | P |
| | | V-45.4 | Ø45.4 ⁶³⁾ | | V |
| - | - | E04 | Ø50 | P-1395 P-1413/B, P-2032 ⁶⁶⁾ | J |
| - | - | - | - | | K |
| + + TV 40-1/20 | - | - | - | | L |

| | | | | |
|--|---|-------|---|---|
| | 90° | - | | |
| A | | - | 0 | 1 |
| B | | - | 0 | 3 |
| D | RE3, RE4, RE5 (DMS3 RE3) ⁷¹⁾ | Z500a | 0 | 5 |
| E | RE1, RE2, RE3, RE4, RE5, READY (DMS3 RE6) ⁷¹⁾ | Z500 | 0 | 6 |
| F | LCD (P-2032. ⁶⁶⁾ -25°C) | Z473a | 0 | 7 |
| : A+B=20, A+D=22, A+E=23, A+F=24, B+D=29, B+E=30, B+F=31, D+F=40, E+F=44, A+B+D=52, A+B+E=53, A+B+F=54, A+D+F=63, A+E+F=67, B+D+F=80, B+E+F=84, A+B+E+F=113, A+B+D+F=114 | | | | |

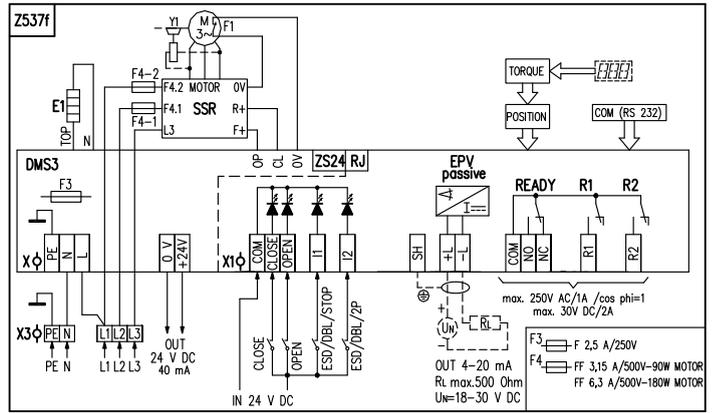
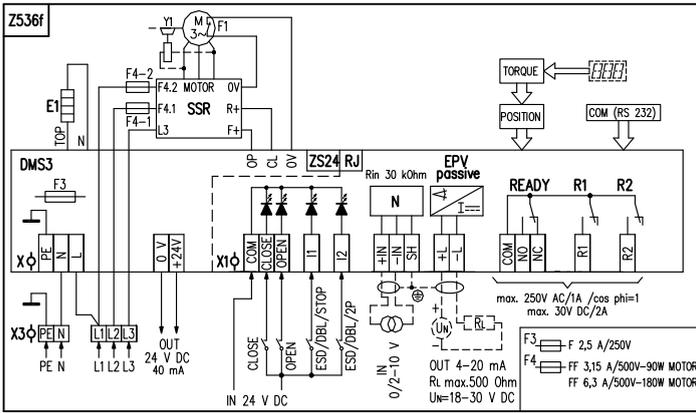
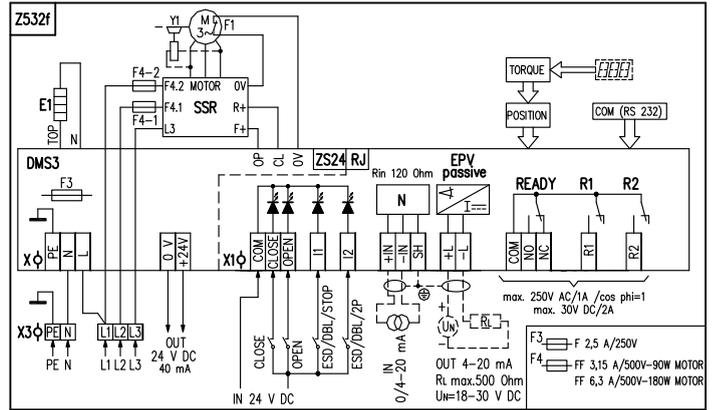
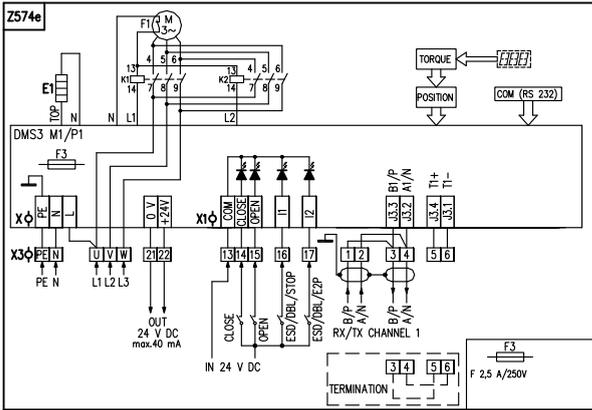
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| DB-9F/RJ45 | 224A80100 |
|------------|-----------|

10) « » .2.
 23)
 32) S2-10 min a S4-25% 90 / .
 33) S4-25%, 90 - 1200 / .
 34) 3x380/3x400 VAC.
 42)
 62) () .
 63)
 64) Ø8.
 65)
 66) c DMS3 P-2032.
 71) PROFIBUS MODBUS RTU. 230/220 VAC 3x400/3x380 VAC.

SPR 1PA - SPR 2.4PA



SPR 1PA - SPR 2.4PA



: - 2 9 13

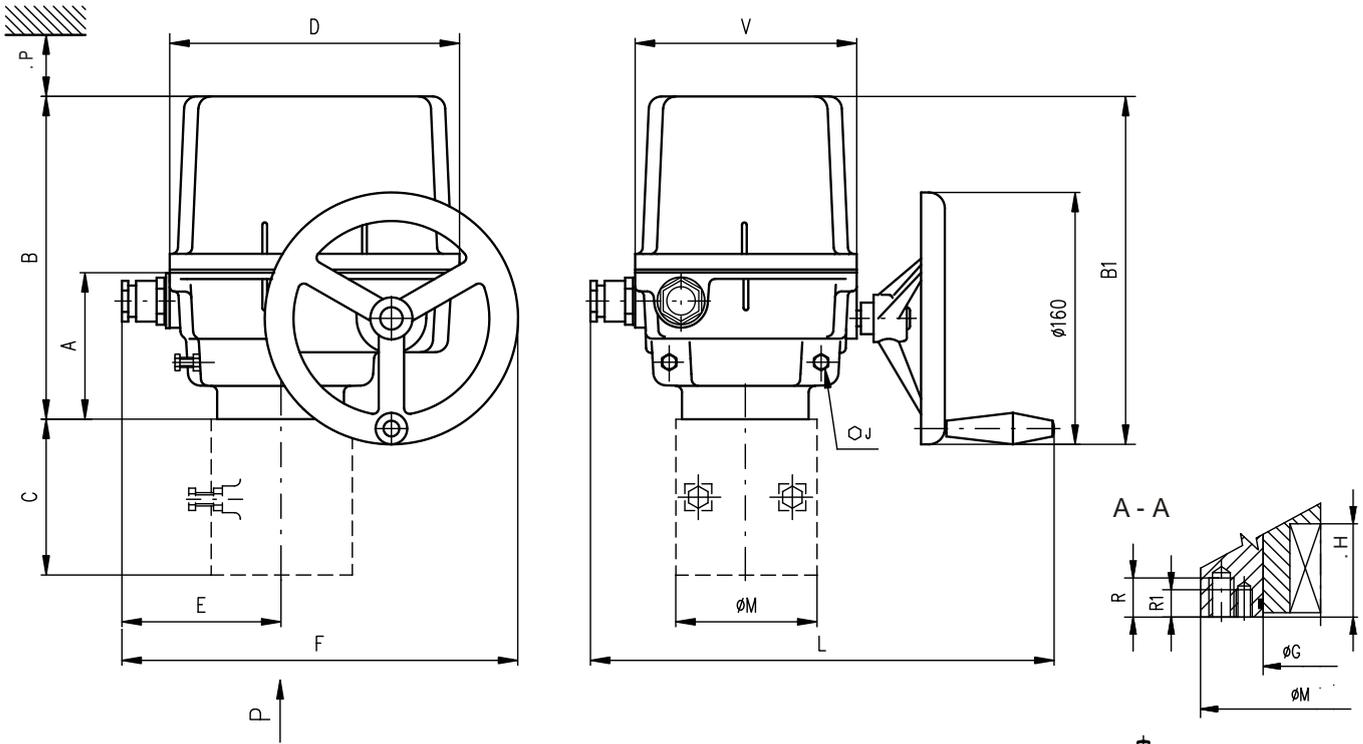
- 3 : - 1x 3 6 , 1x 6 10,5 1x 9 13 - SPR 1PA
 - 3 - 2x 6 10,5 1x 13 - SPR 2PA, SPR 2.3PA SPR 2.4PA

- 2 : - 1x 6 10,5 1x 9 13 - SPR 1PA
 - 2 - 1x 6 10,5 1x 9 13 - SPR 2PA, SPR 2.3PA SPR 2.4PA

| | | | | | | |
|--------------------------------|-------------------------------|--------------------|-----------------------------|--|-------------------|--|
| X - | | | | | | |
| PE, N, L | (0,05 - 1,5 mm ²) | | 220/230/240 V AC, 120 V AC, | | 24 V AC, 50/60 Hz | |
| 0 V, +24 V | (1,5 mm ²) | | 24 V DC (40 mA) | | | |
| X1 - | | | | | | |
| COM, CLOSE OPEN, I1, I2... | (0,05 - 1 mm ²) | | 24 V DC | | | |
| +IN, -IN, SH | (0,05 - 1 mm ²) | | 0/4-20 mA (0/2-10V) | | | |
| +L, -L, SH | (0,05 - 1 mm ²) | | () 4-20 mA | | | |
| COM, NO, NC | (0,05 - 1,5 mm ²) | READY | | | | |
| COM, NO, NC | (0,05 - 1,5 mm ²) | R1, R2 | | | | |
| X2 - | | | | | | |
| COM1, RE1, RE2, RE3, RE4 | (0,05 - 1,5 mm ²) | RE1, RE2, RE3, RE4 | | | | |
| COM5, NO5, NC5 | (0,05 - 1,5 mm ²) | RE5 | | | | |
| COM, NO, NC | (0,05 - 1,5 mm ²) | READY | | | | |

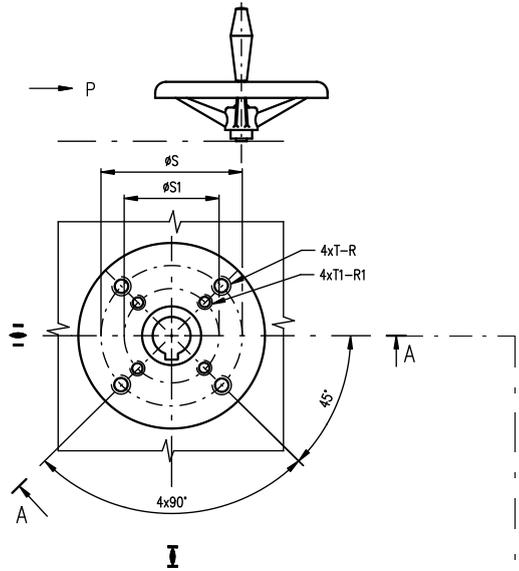
| | | | | | |
|-------------------|-------|--|--|----|--|
| C | | | | | |
| COM(RS232) | | | | PC | |
| EPV passive | (EPV) | | | | |
| E1 | | | | | |
| F1 | | | | | |
| F2 | | | | | |
| F3 | | | | | |
| M1- / M3- | | | | | |
| N | | | | | |
| R | | | | | |
| POSITION | | | | | |
| Rin | | | | | |
| R | | | | | |
| UN | EPV | | | | |
| R1, R2 | | | | | |
| READY | () | | | | |
| RE1 o RE5 | | | | | |
| TORQUE | | | | | |
| DMS3 | | | | | |

SPR 1PA - SPR 2.4PA



| | A | B | B1 | C | D | E | F | J | L | M | P | V |
|-----------|-----|-----|-----|----|-----|-----|-----|-----|-----|----|-----|-----|
| SPR 1PA | 102 | 223 | 239 | - | 183 | 93 | 243 | 13 | 280 | 90 | 160 | 140 |
| SPR 2PA | 117 | 284 | 291 | - | 232 | 119 | 294 | 17 | 330 | 90 | 210 | 190 |
| SPR 2.3PA | | | | 19 | | | | 125 | | | | |
| SPR 2.4PA | | | | 22 | | | | 150 | | | | |

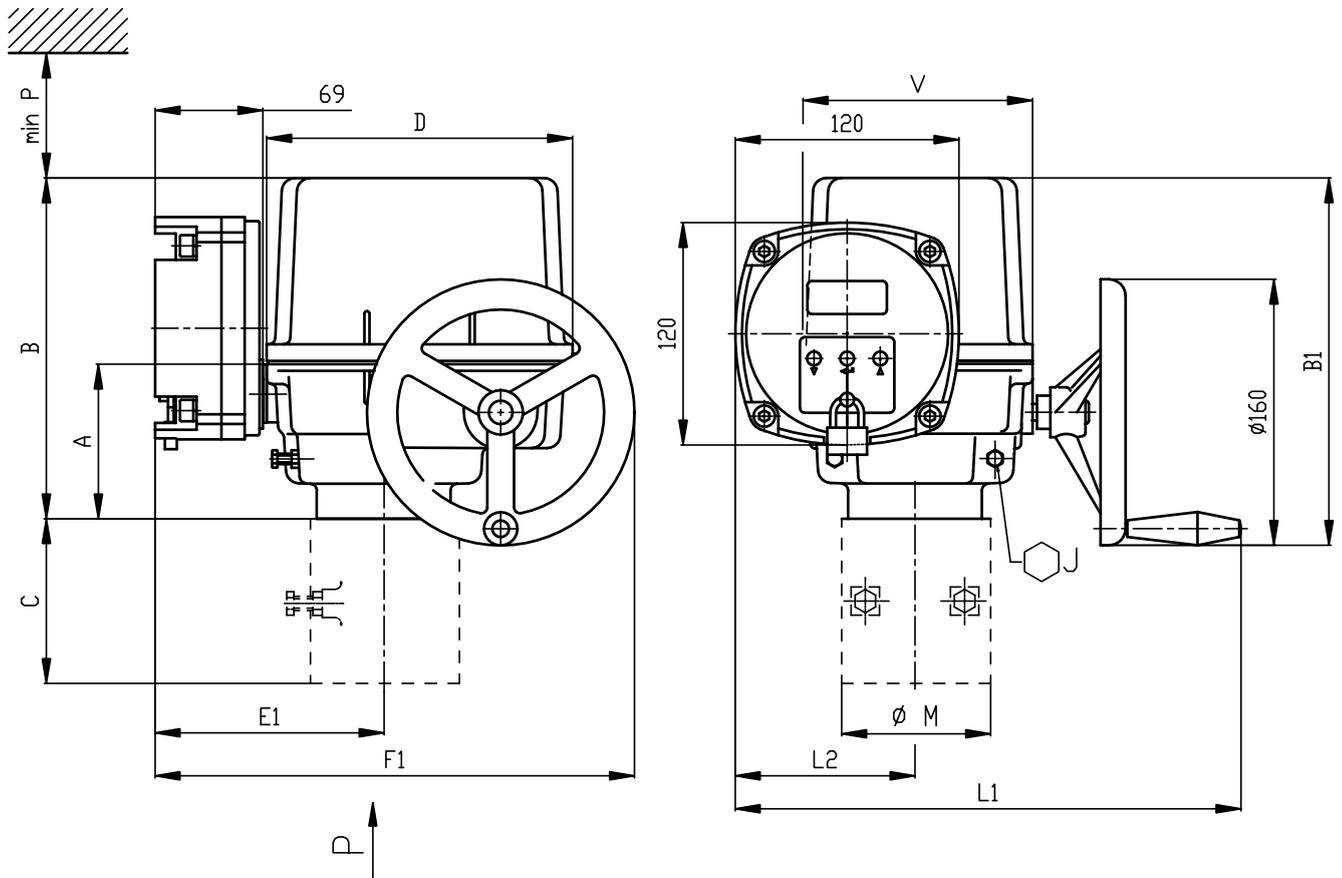
| | G | H | R | R1 | S | S1 | T | T1 | |
|-----------|----|----|----|----|-----|-----|-----|-----|---------|
| SPR 1PA | 40 | 37 | 16 | 12 | 70 | 50 | M8 | M6 | F07/F05 |
| SPR 2PA | 40 | 49 | 16 | 12 | 70 | 50 | M8 | M6 | F07/F05 |
| SPR 2.3PA | 55 | 56 | 20 | 16 | 102 | 70 | M10 | M8 | F10/F07 |
| SPR 2.4PA | 65 | 71 | 24 | 20 | 125 | 102 | M12 | M10 | F12/F10 |



| D-xx (Axx) | | L-xx (Bxx) | | H-xx (Cxx) | | | V-xx (D01 - D09) | | V-30 (D10) | |
|------------|----|------------|----|------------|----|----|------------------|------|------------|------|
| | | | | | | | | | | |
| ISO | | ISO | | ISO | | | ISO | | | |
| D-xx | U | L-xx | U | H-xx | U | V | V-xx | W | Z | X |
| D-14 | 14 | L-14 | 14 | H-14 | 14 | 22 | V-20 | 20.0 | 22.5 | 6.0 |
| D-17 | 17 | L-17 | 17 | H-11 | 11 | 18 | V-22 | 22.0 | 24.5 | 6.0 |
| D-22 | 22 | L-22 | 22 | H-8 | 8 | 13 | V-32.2 | 32.2 | 35 | 6.5 |
| D-27 | 27 | L-27 | 27 | H-17 | 17 | 25 | V-17 | 17.0 | 19.5 | 6.0 |
| D-11 | 11 | L-11 | 11 | H-13 | 13 | 19 | V-28 | 28.0 | 30.9 | 8.0 |
| D-16 | 16 | L-16 | 16 | H-22 | 22 | 32 | V-42 | 42.0 | 45.1 | 12.0 |
| | | | | H-16 | 16 | 22 | V-45.4 | 45.4 | 48.8 | 10.0 |
| | | | | H-27 | 27 | 48 | V-50 | 50.0 | 53.5 | 14.0 |
| | | | | H-19 | 19 | 28 | V-18 | 18.0 | 20.5 | 6.0 |
| | | | | H-10 | 10 | 16 | V-30 | 30.0 | 32.5 | 8.0 |

c

DMS3

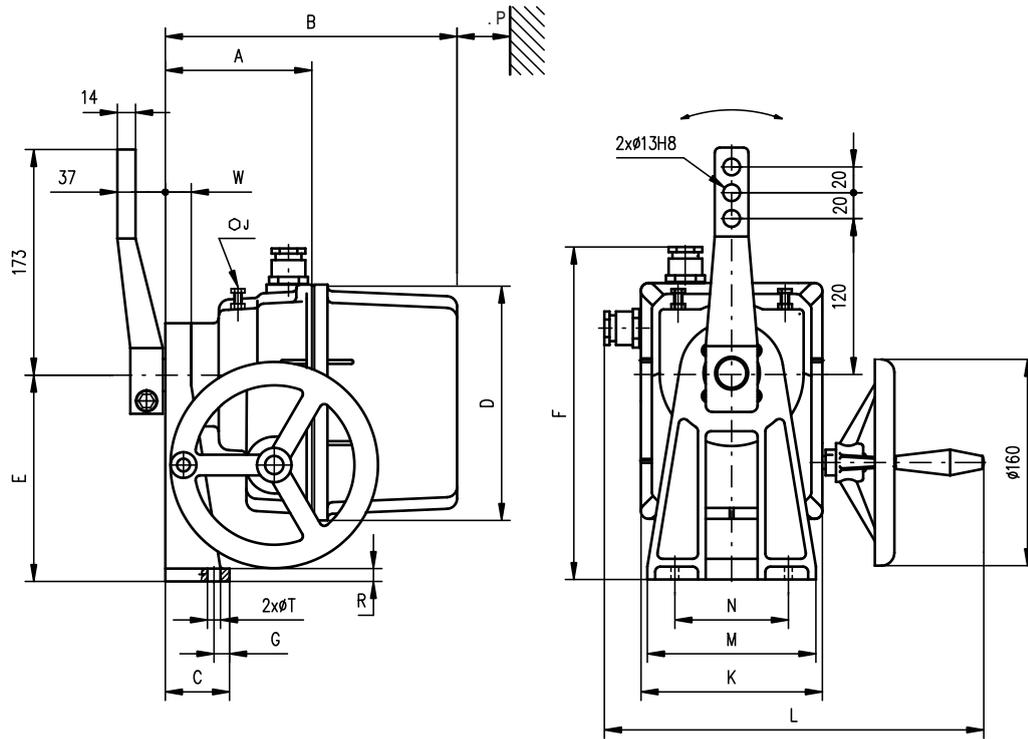


| | E1 | F1 | L1 | L2 |
|-------------------------------|-----|-----|-----|-----|
| SPR 1PA | 139 | 288 | 303 | 102 |
| SPR 2PA, SPR 2.3PA, SPR 2.4PA | 163 | 337 | 339 | 119 |

P-1162

P - 2032

SPR 1PA - SPR 2.4PA



| Exx | | H | S | U | V | Z | Y | Y1 | | |
|-----|--|---------|------|----|---|----|----|----|---|-----|
| | | SPR 1PA | 24.5 | 22 | 6 | 28 | 25 | 2 | 2 | E01 |
| | | SPR 2PA | 27.9 | 25 | 8 | 35 | 28 | 2 | 2 | E02 |

| | A | B | C | D | E | E1 | F | F1 | F2 | G | W | J | K | L | M | N | P | R | T |
|---------|-----|-----|----|-----|-----|-----|-----|-----|-----|----|----|----|-----|-----|-----|----|-----|----|------|
| SPR 1PA | 123 | 243 | 50 | 183 | 160 | 163 | 258 | 313 | 273 | 12 | 20 | 13 | 140 | 280 | 130 | 80 | 160 | 10 | 10.5 |
| SPR 2PA | 132 | 288 | 58 | 232 | 200 | 189 | 323 | 364 | - | 30 | 28 | 17 | 190 | 330 | 160 | 90 | 210 | 11 | 12.6 |

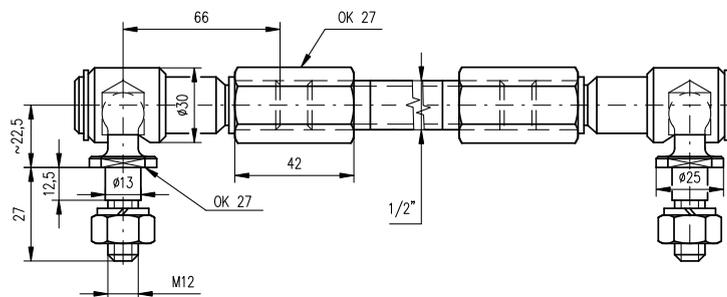
c

DMS3

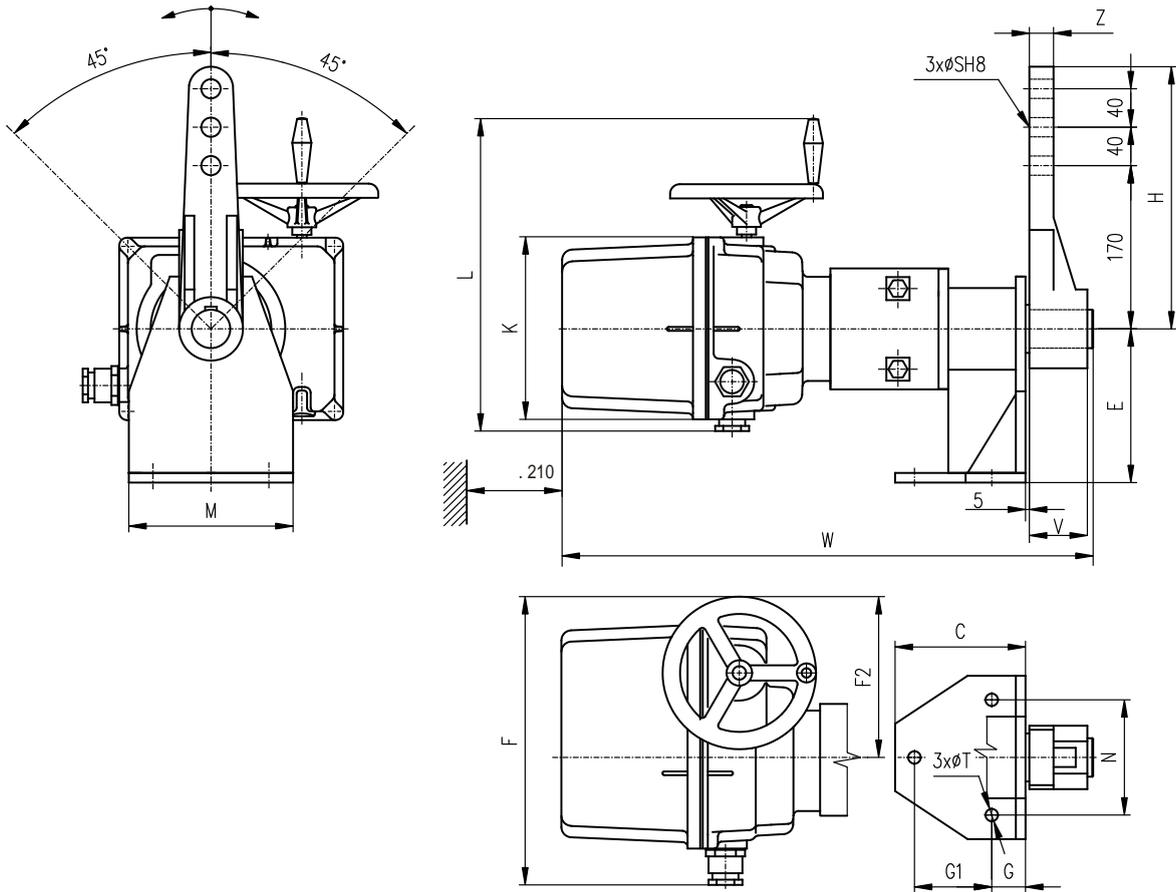
P-2032

P - 1162

TV 160



P - 0210



| | C | E | F | F2 | G | G1 | H | W | K | L | M | N | S | T | V | Z |
|-----------|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|
| SPR 2.3PA | 135 | 160 | 294 | 174 | 35 | 80 | 278 | 532 | 190 | 330 | 170 | 120 | 20 | 13 | 56 | 25 |
| SPR 2.4PA | 200 | 220 | 294 | 174 | 60 | 120 | 278 | 593 | 190 | 330 | 228 | 170 | 25 | 17 | 80 | 30 |

c

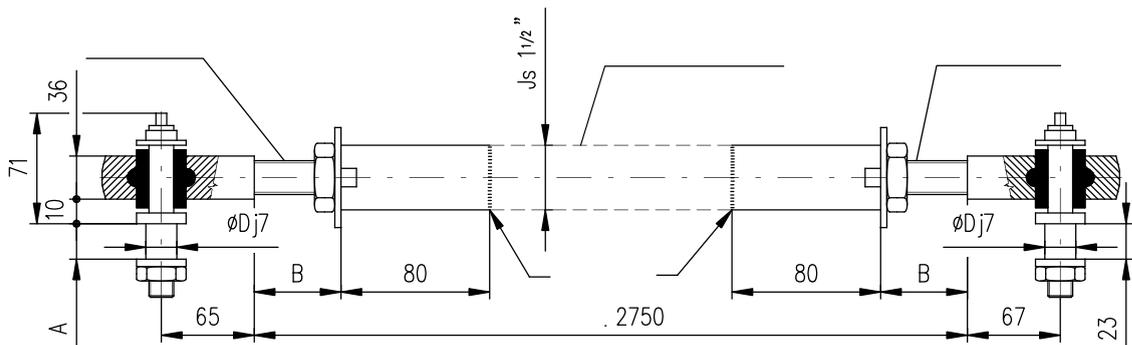
DMS3

P-2032

P - 1395

SP 2.3PA, SPR 2.3PA, SP 2.4PA, SPR 2.4PA

| Exx | Y1 | Z | V | Y | Uh9 | H | S | U | V | Z | Y | Y1 | | |
|-----|----|---|---|---|-----|------|----|----|----|----|---|----|-----------|-----------|
| | | | | | | | | | | | | | SPR 2.3PA | SPR 2.4PA |
| | | | | | | 43.1 | 40 | 12 | 66 | 56 | 4 | 7 | E03 | |
| | | | | | | 53.8 | 50 | 16 | 82 | 70 | 4 | 7 | E04 | |



| | | | | | |
|----------|-----------|------------|----|--------|----|
| P-1413/B | SPR 2.4PA | TV 50-1/25 | 28 | Min.30 | 25 |
| P-1413/A | SPR 2.3PA | TV 40-1/20 | 23 | Max.50 | 20 |
| | | | A | B | D |

P - 1413

