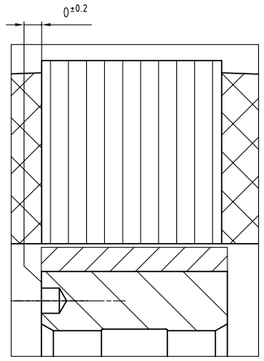
## Mounting condition

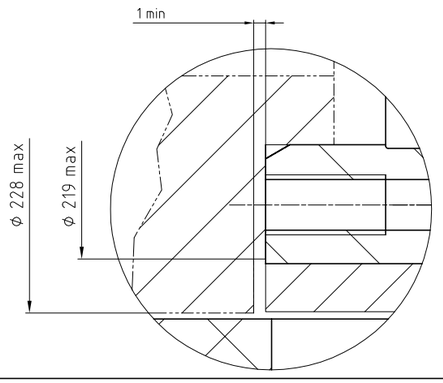
Z (2:1)



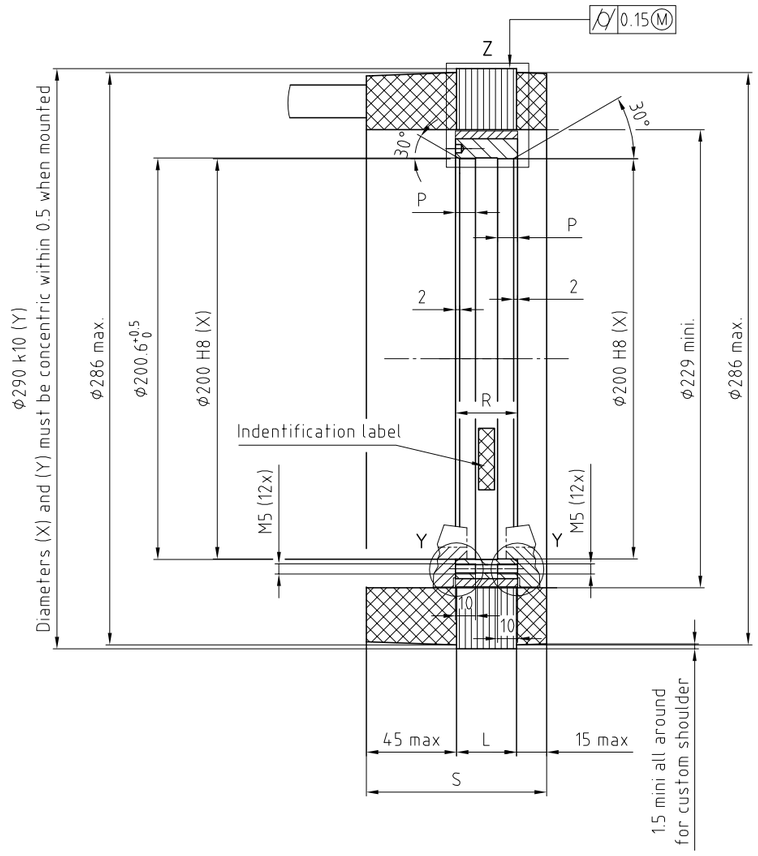

## Detail:Y

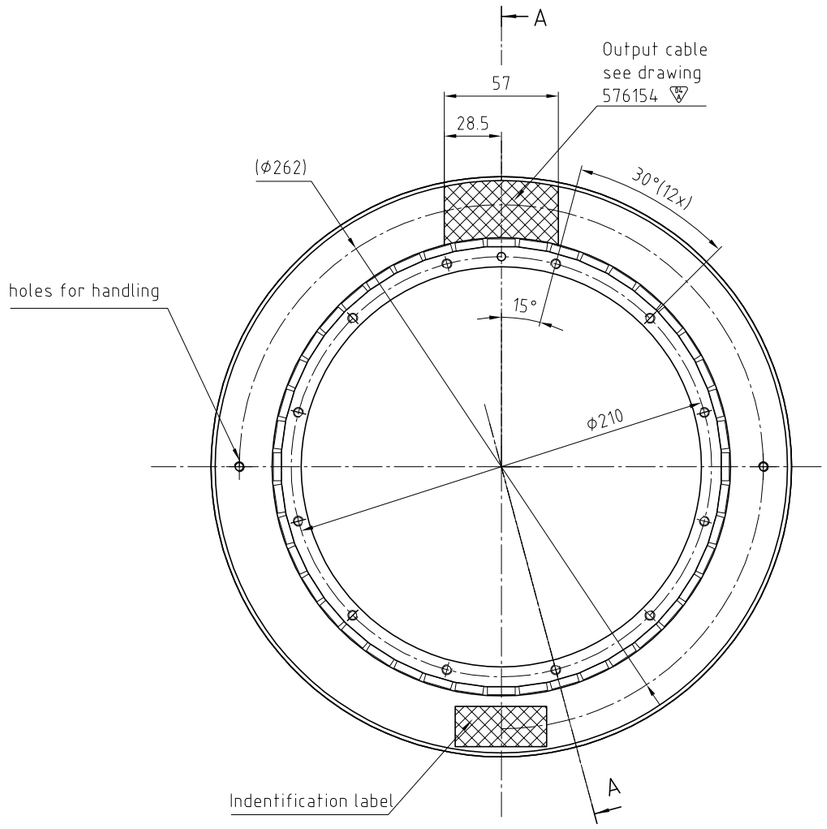
## Magnets safety clearance

Y (4:1)

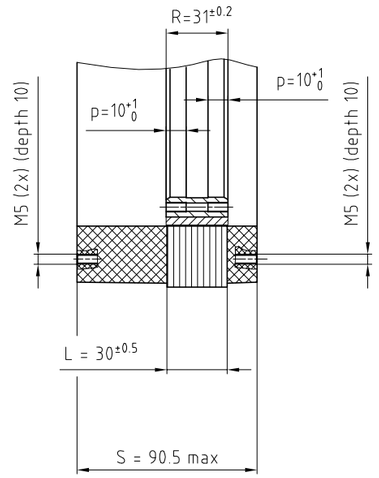



A-A

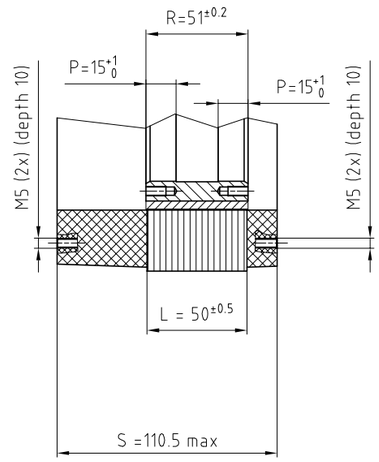


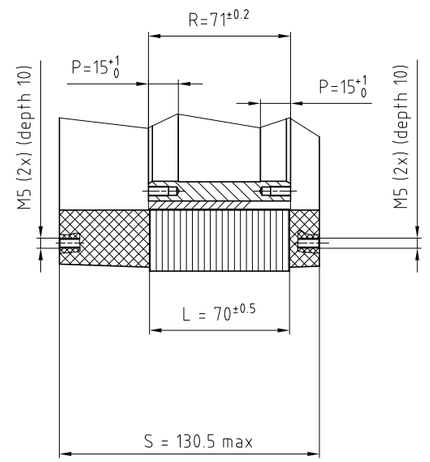

## Tmm0291-030




## Tmm0291-050




## Tmm0291-070




## Power cable connection

Phase 1 = Wire 1
Phase 2 = Wire 2
Phase 3 = Wire 3
Ground = Wire yellow-Green
Neutral = Wire 5 or Br1 or White
Not connected = Wire 6 or Br2 or Black

## For temperature sensor configuration, see Handbook

| ECO N° | Nom | Date | Description : |
|---|---|---|---|
| C29035 | MBO | 23.10.2012 | - |

Matière : -

Remarque : -

Annexe : -

Principe de tolérancement de base ISO 8015 et tolérance générale selon ISO 2768-mK

| Dimension nominale | Linéaire | Rayon Chanfrein |
|---|---|---|
| 0,5 ... 3 | ±0,1 | ± 0,2 |
| > 3 ... 6 | ±0,1 | ± 0,5 |
| > 6 ... 30 | ±0,2 | ± 1 |
| > 30 ... 120 | ±0,3 | ± 2 |
| > 120 ... 400 | ±0,5 | ± 4 |
| > 400 ... 1000 | ±0,8 | |
| > 1000 ... 2000 | ±1,2 | |

| Lk≤s | α |
|---|---|
| ... 10 | ± 1° |
| > 10 ... 50 | ± 30' |
| > 50 ... 120 | ± 20' |
| > 120 ... 400 | ± 10' |

| Dimension nominale | | | | | |
|---|---|---|---|---|---|
| ... 10 | 0,05 | 0,4 | 0,6 | 0,2 | |
| > 10 ... 30 | 0,1 | 0,4 | 0,6 | | |
| > 30 ... 100 | 0,2 | 0,4 | 0,6 | | |
| > 100 ... 300 | 0,4 | 0,6 | 0,6 | | |
| > 300 ... 1000 | 0,6 | 0,8 | 0,8 | | |
| > 1000 ... 3000 | 0,8 | 1 | 1 | | |

Equivalence rugosité

| Ra µm | Classe |
|---|---|
| 50 | N12 |
| 25 | N11 |
| 12.5 | N10 |
| 6.3 | N9 |
| 3.2 | N8 |
| 1.6 | N7 |
| 0.8 | N6 |
| 0.4 | N5 |
| 0.2 | N4 |
| 0.1 | N3 |
| 0.05 | N2 |
| 0.025 | N1 |

Arêtes de formes ISO 13715 — I-0,3 — I+0,3

Torque motor

Interface drawing Tmm0291-030 / 050 / 070

| | Auteur | Vérificateur | Libérateur |
|---|---|---|---|
| | S. Perrot | | - |
| | 10.01.06 | | - |

| | | |
|---|---|---|
| ϕ290 | k10 +0.21 0 | 290.21 290 |
| ϕ200 | H8 +0.072 0 | 200.072 200 |
| Cote | Ajustement | |

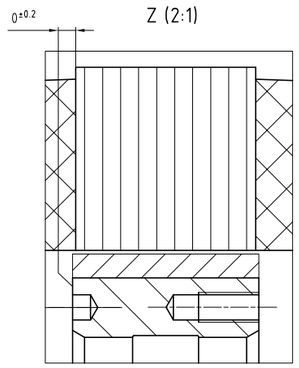
ETEL S.A. CH-2112 Môtiers SWITZERLAND



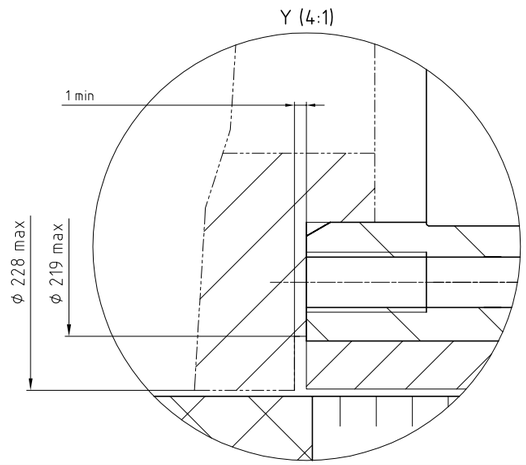
| Projection | Format | Echelle | Ancien n° : 0516m-i40-04.d | Version | Revision | Feuille | Page |
|---|---|---|---|---|---|---|---|
| | A1 | 1:1.5 | 582053 - 04- A-01 | | | 1/1 | |

Numéro de document

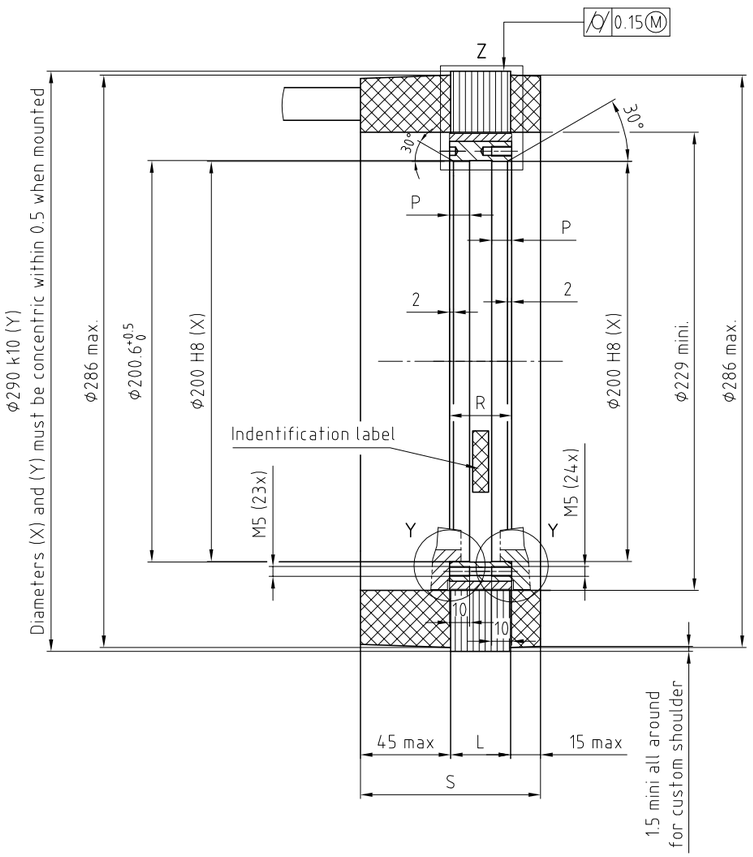
## Mounting condition

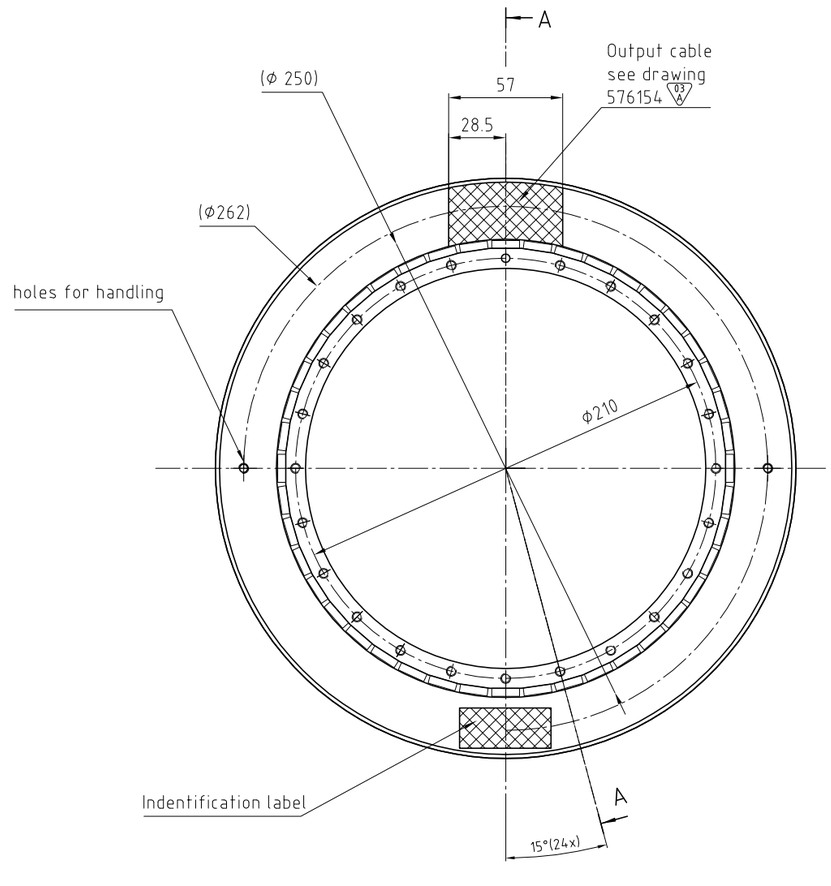



## 03/A Detail:Y
## Magnets safety clearance

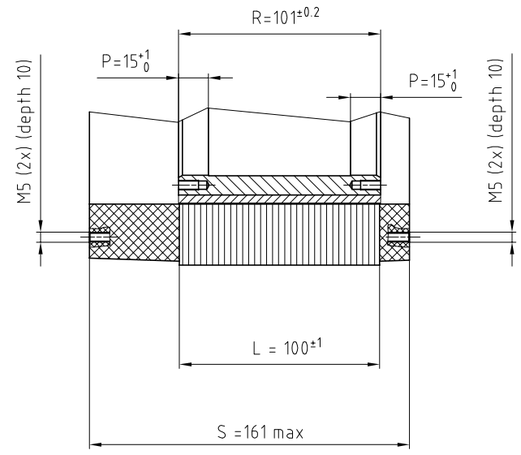



A-A

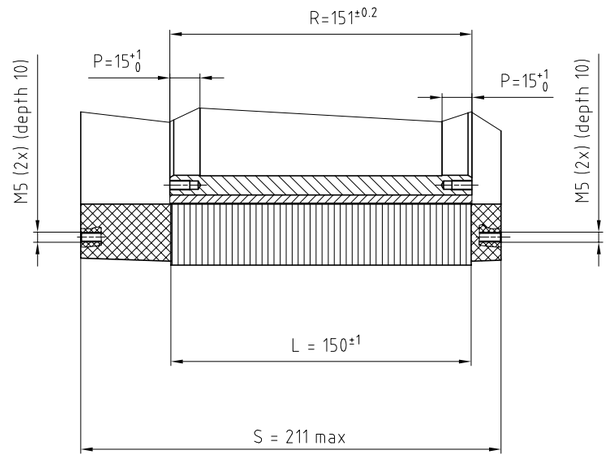



### Tmm0291-100




### Tmm0291-150




## Power cable connection

Phase 1 = Wire 1
Phase 2 = Wire 2
Phase 3 = Wire 3
Ground = Wire yellow-Green
03/A Neutral = Wire 5 or Br1 or White
Not connected = Wire 6 or Br2 or Black

## For temperature sensor configuration, see Handbook

| 03/A | ECO N° | Nom | Date | Description : |
|---|---|---|---|---|
| | C29035 | MBO | 25.10.2012 | |

Matière : -
Remarque : -
Annexe : -

Principe de tolérancement de base ISO 8015 et tolérance générale selon ISO 2768-mK

| Dimension nominale | Linéaire | Rayon Chanfrein |
|---|---|---|
| 0,5 ... 3 | ±0,1 | ± 0,2 |
| > 3 ... 6 | ±0,1 | ± 0,5 |
| > 6 ... 30 | ±0,2 | ± 1 |
| > 30 ... 120 | ±0,3 | ± 2 |
| > 120 ... 400 | ±0,5 | ± 4 |
| > 400 ... 1000 | ±0,8 | |
| > 1000 ... 2000 | ±1,2 | |

| Lxs | α |
|---|---|
| ... 10 | ± 1° |
| > 10 ... 50 | ± 30' |
| > 50 ... 120 | ± 20' |
| > 120 ... 400 | ± 10' |

| Dimension nominale | ⏥ | ⊥ | ⫽ | ↗ |
|---|---|---|---|---|
| ... 10 | 0,05 | 0,4 | 0,6 | 0,2 |
| > 10 ... 30 | 0,1 | 0,4 | 0,6 | |
| > 30 ... 100 | 0,2 | 0,4 | 0,6 | |
| > 100 ... 300 | 0,4 | 0,6 | 0,6 | |
| > 300 ... 1000 | 0,6 | 0,8 | 0,8 | |
| > 1000 ... 3000 | 0,8 | 1 | 1 | |

| Equivalence rugosité Ra µm | Classe |
|---|---|
| 50 | N12 |
| 25 | N11 |
| 12.5 | N10 |
| 6.3 | N9 |
| 3.2 | N8 |
| 1.6 | N7 |
| 0.8 | N6 |
| 0.4 | N5 |
| 0.2 | N4 |
| 0.1 | N3 |
| 0.05 | N2 |
| 0.025 | N1 |

Arêtes de formes ISO 13715 t-0,3 t+0,3

Torque motor
Interface drawing Tmm0291-100 / 150

| Auteur | Vérificateur | Libérateur |
|---|---|---|
| S. Perrot | | - |
| 12.04.06 | | - |

| | | |
|---|---|---|
| ϕ290 | k10 | 0 +0.21 290.21 290 |
| ϕ200 | H8 | 0 +0.072 200.072 200 |
| Cote | Ajustement | |

ETEL S.A. CH-2112 Môtiers SWITZERLAND

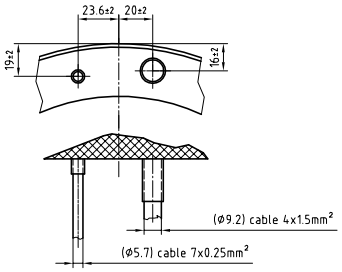


| Projection | Format | Echelle | Ancien n° : 0516m-i40-05c | Version | Revision | Feuille | Page |
|---|---|---|---|---|---|---|---|
| | A1 | 1:1.5 | 588613 - 03- A-01 | | | 1/1 | |

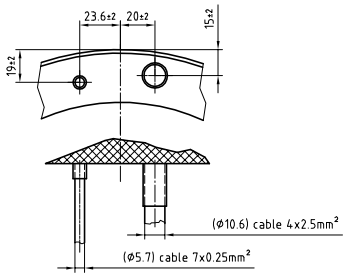
Numéro de document

06
A

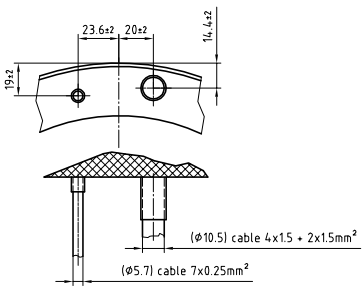
TMM0291-030-3TBS-S##
TML0291-030-3TBS-S##



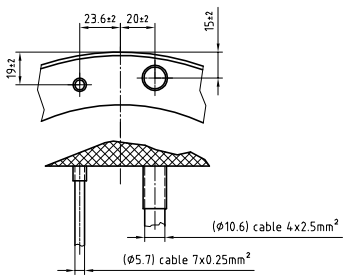

TMM0291-030-3TDS-S##
TML0291-030-3TDS-S##



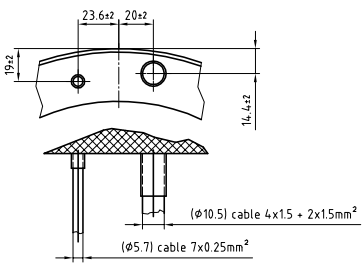

TMM0291-050-3TBN-S##
TML0291-050-3TBN-S##



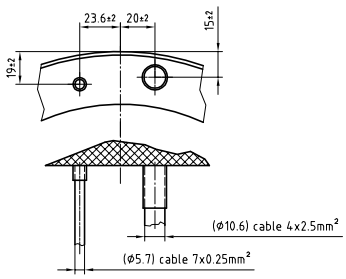

TMM0291-050-3TDS-S##
TML0291-050-3TDS-S##



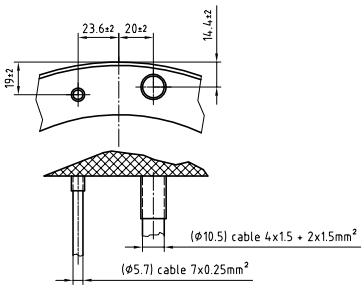

TMM0291-070-3UBN-S##
TML0291-070-3UBN-S##
TML0291-070-3TBN-S##



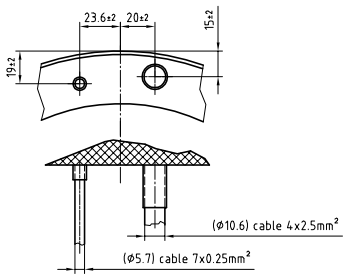

TMM0291-070-3TDS-S##
TML0291-070-3TDS-S##



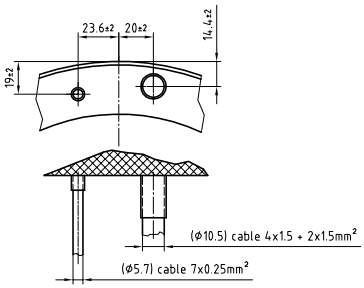

TMM0291-100-3TBN-S##
TML0291-100-3TBN-S##




TMM0291-100-3TDS-S##
TML0291-100-3TDS-S##




TMM0291-150-3TBN-S##
TML0291-150-3TBN-S##

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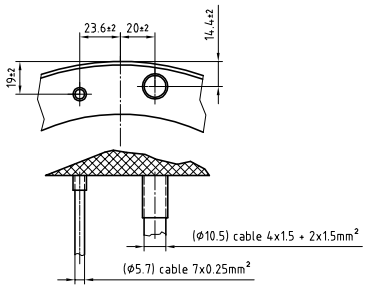
TML0291-150-3TDN-S##




| FSM N° | Nom | Date | Description : Elbowed output cable removed |
|---|---|---|---|
| C064.986-5 | JGU | 04.10.17 | |

Matière :
Remarque :
Annexe :

Equivalence rugosité

| Ra µm | Classe |
|---|---|
| 50 | N12 |
| 25 | N11 |
| 12.5 | N10 |
| 6.3 | N9 |
| 3.2 | N8 |
| 1.6 | N7 |
| 0.8 | N6 |
| 0.4 | N5 |
| 0.2 | N4 |
| 0.1 | N3 |
| 0.05 | N2 |
| 0.025 | N1 |

Arêtes de formes ISO 13715 +0.3 −0.3

Torque motor TMM & TML0291 cables outputs
Moteur couple for TMM & TML0291 series de câbles

| Auteur | Vérificateur | Libérateur |
|---|---|---|
| S. Iervolino | | - |
| 22.09.2005 | | - |

ETEL S.A. CH-2112 Môtiers SWITZERLAND



| Projection | Format | Echelle | Ancien n° : 0516m-140-01 | Version | Revision | Feuille | Page |
|---|---|---|---|---|---|---|---|
| | A1 | | 576154 -06- A -01 | | | 1 | 1 |

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