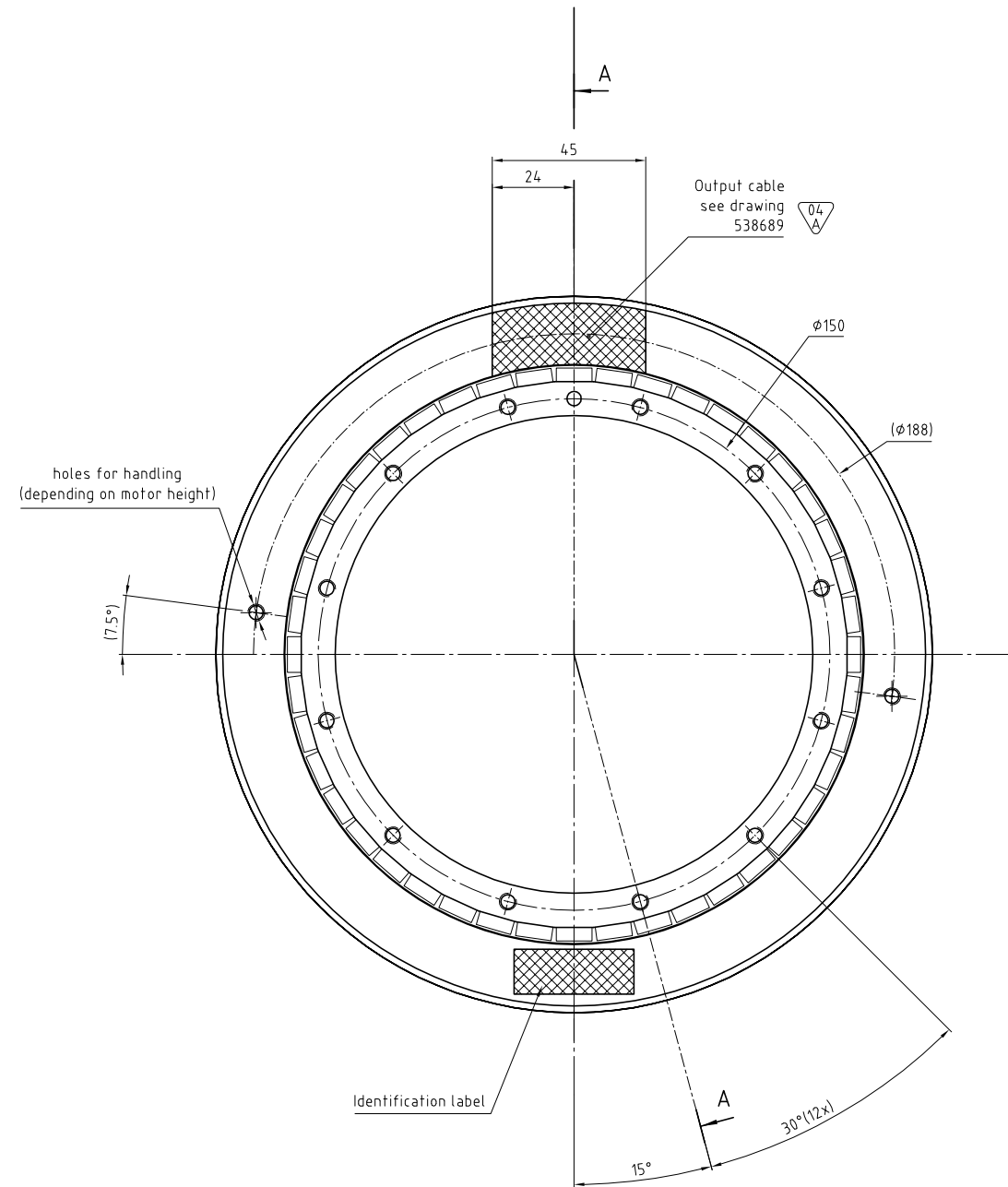
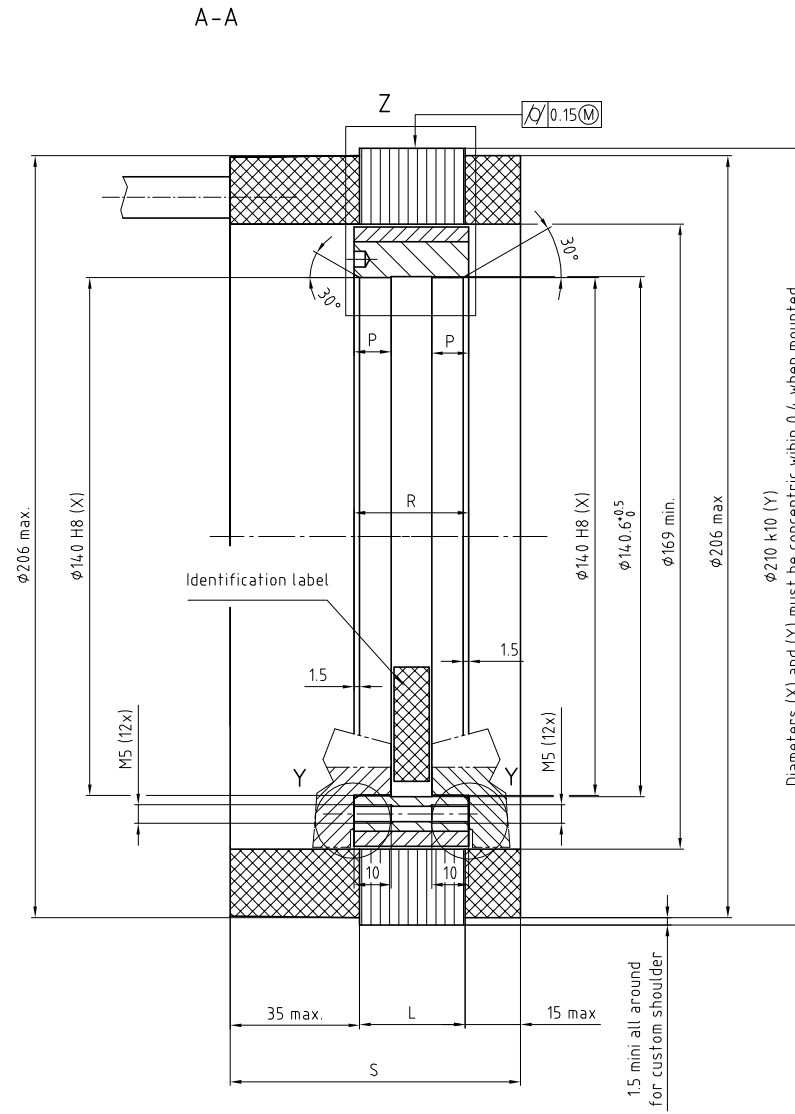
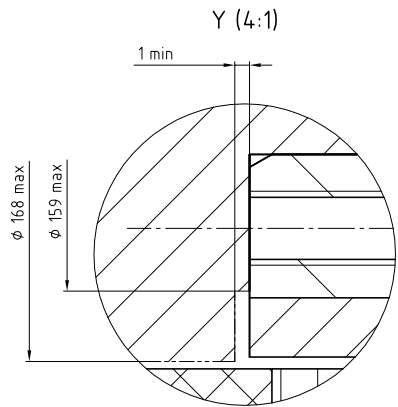


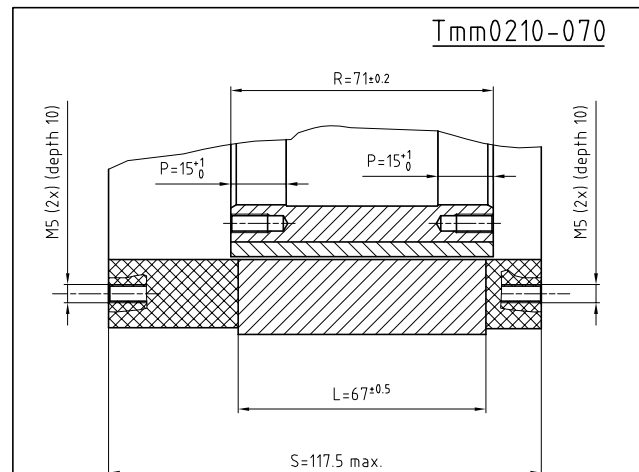
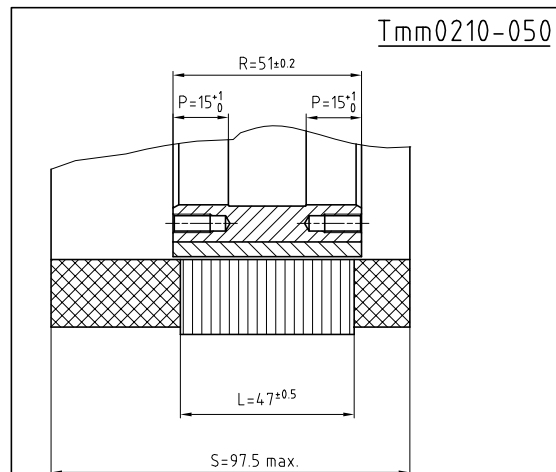
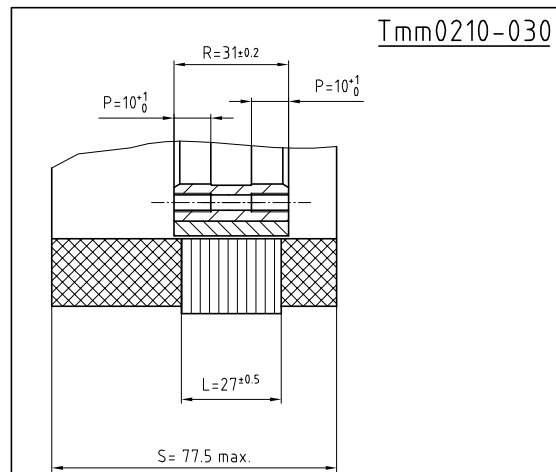
Detail: Y
Magnets safety clearance



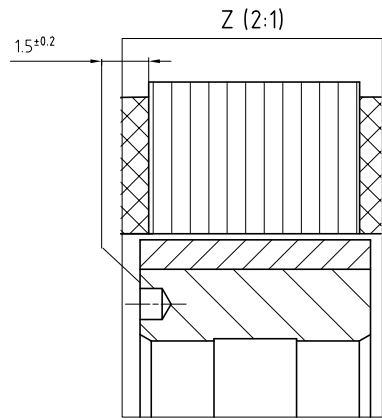
Power cable connection

- 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

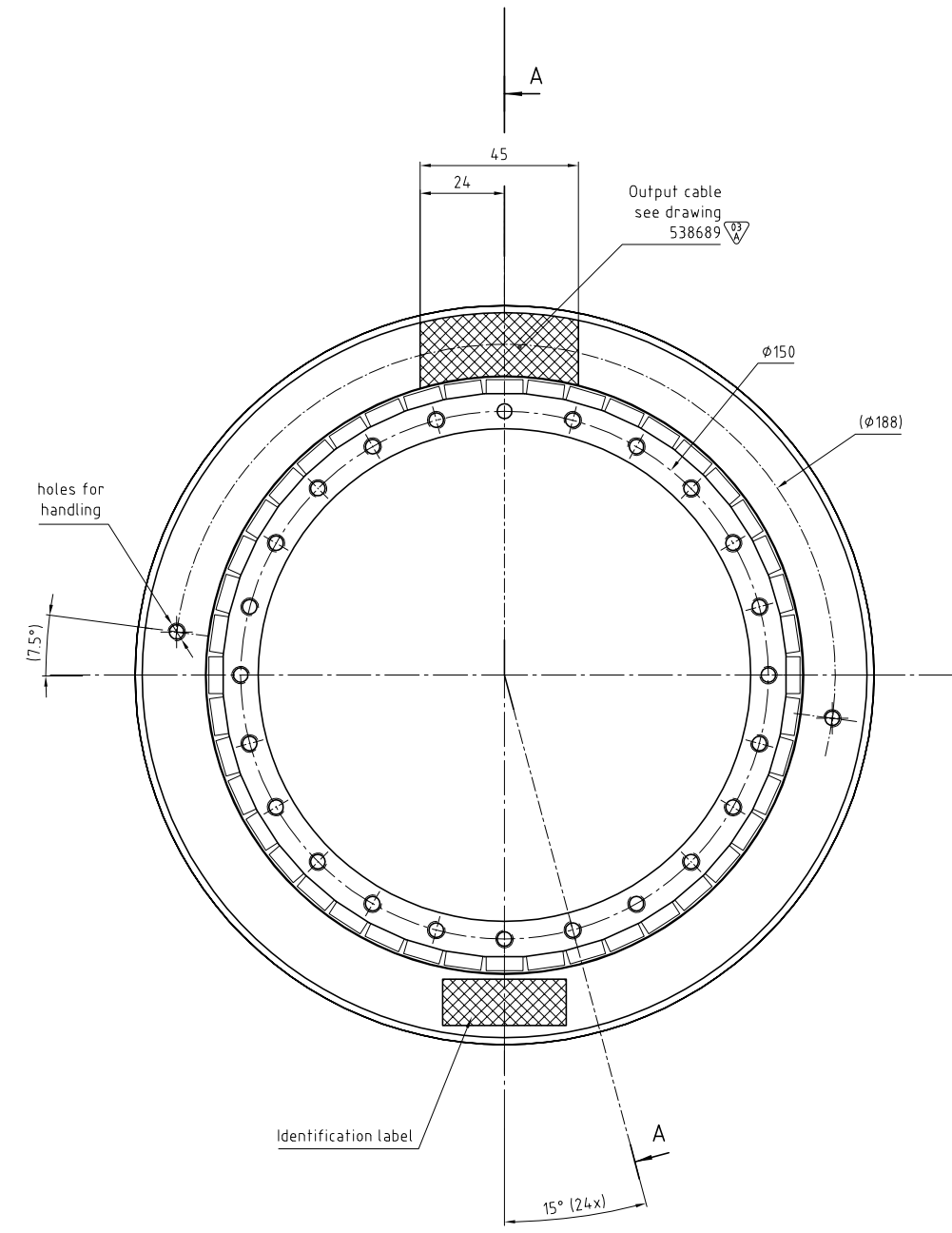
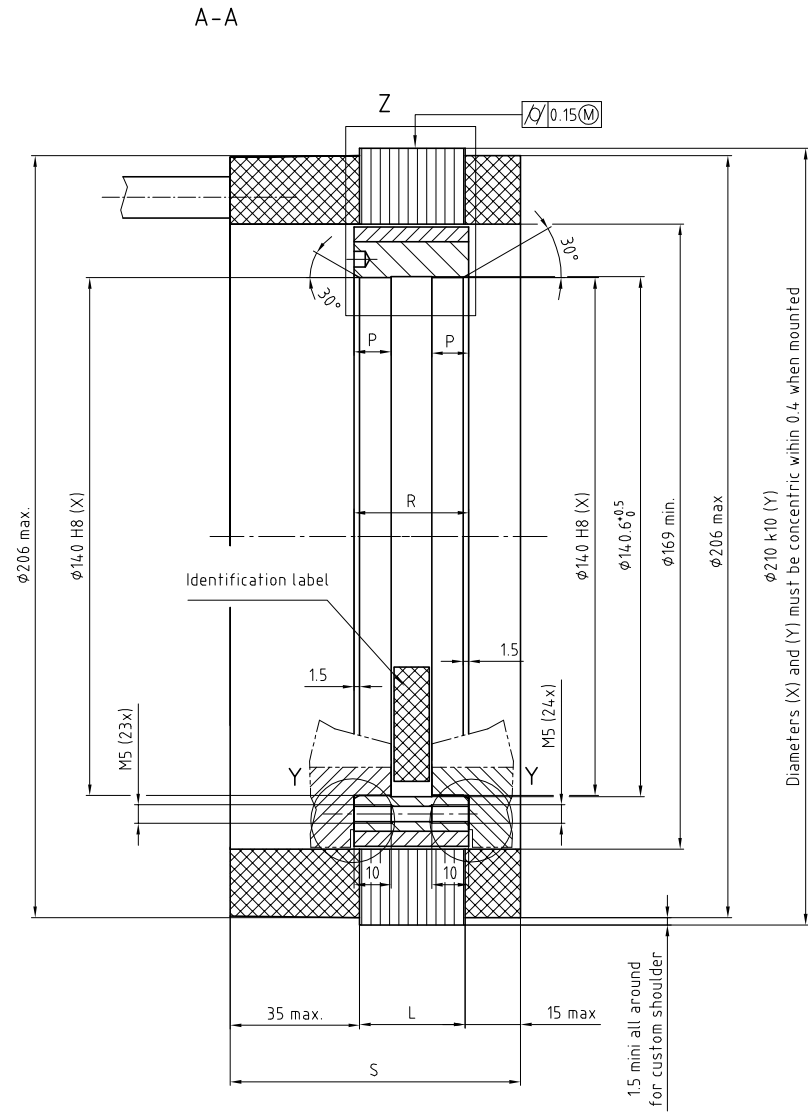
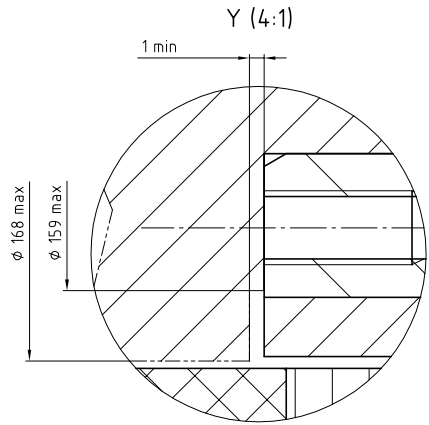
For temperature sensor configuration, see Handbook



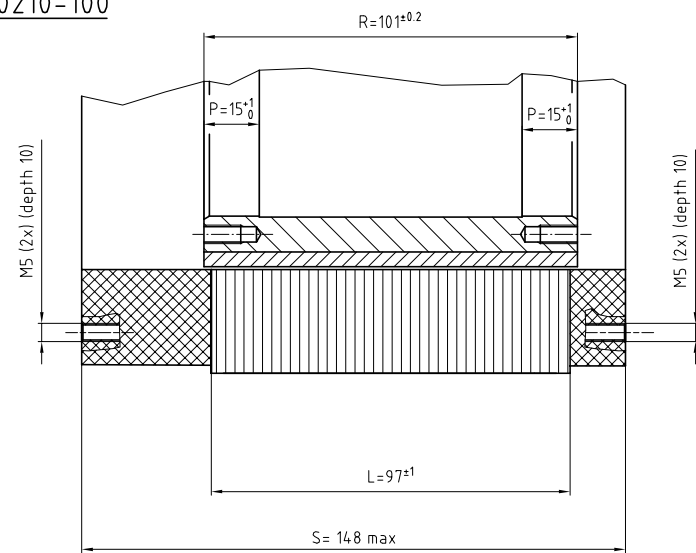
ECO N°	29635	Nom	MB0	Date	22.10.2012	Description																																																									
<table border="1"> <thead> <tr> <th>Dimension nominale</th> <th>Linéaire</th> <th>Rayon</th> <th>Chanfrein</th> <th>Dimension nominale</th> <th>Ra µm</th> <th>Classe</th> </tr> </thead> <tbody> <tr> <td>0,5 - 3</td> <td>±0,1</td> <td>±0,2</td> <td></td> <td>10 - 10</td> <td>0,05</td> <td>0,4</td> </tr> <tr> <td>3 - 6</td> <td>±0,1</td> <td>±0,5</td> <td></td> <td>10 - 30</td> <td>0,1</td> <td>0,4</td> </tr> <tr> <td>6 - 30</td> <td>±0,2</td> <td>±1</td> <td></td> <td>30 - 100</td> <td>0,2</td> <td>0,4</td> </tr> <tr> <td>30 - 120</td> <td>±0,3</td> <td>±2</td> <td></td> <td>100 - 300</td> <td>0,4</td> <td>0,6</td> </tr> <tr> <td>120 - 400</td> <td>±0,5</td> <td>±4</td> <td></td> <td>300 - 1000</td> <td>0,6</td> <td>0,8</td> </tr> <tr> <td>400 - 1000</td> <td>±0,8</td> <td>±8</td> <td></td> <td>1000 - 3000</td> <td>0,8</td> <td>1</td> </tr> <tr> <td>1000 - 2000</td> <td>±1,2</td> <td>±12</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								Dimension nominale	Linéaire	Rayon	Chanfrein	Dimension nominale	Ra µm	Classe	0,5 - 3	±0,1	±0,2		10 - 10	0,05	0,4	3 - 6	±0,1	±0,5		10 - 30	0,1	0,4	6 - 30	±0,2	±1		30 - 100	0,2	0,4	30 - 120	±0,3	±2		100 - 300	0,4	0,6	120 - 400	±0,5	±4		300 - 1000	0,6	0,8	400 - 1000	±0,8	±8		1000 - 3000	0,8	1	1000 - 2000	±1,2	±12				
Dimension nominale	Linéaire	Rayon	Chanfrein	Dimension nominale	Ra µm	Classe																																																									
0,5 - 3	±0,1	±0,2		10 - 10	0,05	0,4																																																									
3 - 6	±0,1	±0,5		10 - 30	0,1	0,4																																																									
6 - 30	±0,2	±1		30 - 100	0,2	0,4																																																									
30 - 120	±0,3	±2		100 - 300	0,4	0,6																																																									
120 - 400	±0,5	±4		300 - 1000	0,6	0,8																																																									
400 - 1000	±0,8	±8		1000 - 3000	0,8	1																																																									
1000 - 2000	±1,2	±12																																																													
<table border="1"> <thead> <tr> <th>Arêtes de formes ISO 13715</th> <th>Torque motor</th> <th>Auteur</th> <th>Vérificateur</th> <th>Libérateur</th> </tr> </thead> <tbody> <tr> <td>±0,3</td> <td>±0,3</td> <td>S. Perrot</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>18.07.05</td> <td></td> <td></td> </tr> </tbody> </table>								Arêtes de formes ISO 13715	Torque motor	Auteur	Vérificateur	Libérateur	±0,3	±0,3	S. Perrot					18.07.05																																											
Arêtes de formes ISO 13715	Torque motor	Auteur	Vérificateur	Libérateur																																																											
±0,3	±0,3	S. Perrot																																																													
		18.07.05																																																													
Φ210	k10	Φ140	H8	Φ10	h9	Φ15	h9																																																								
Cote	Ajustement	ETEL S.A. - 01-2102, Meters SWITZERLAND		Projection	Format	Echelle	Anticn n°: 0511m-i4.0-04.d																																																								
<table border="1"> <thead> <tr> <th>Version</th> <th>Revision</th> <th>Feuille</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td>560641 - 04 - A-01</td> <td>1</td> <td>1</td> <td>1</td> </tr> </tbody> </table>								Version	Revision	Feuille	Page	560641 - 04 - A-01	1	1	1																																																
Version	Revision	Feuille	Page																																																												
560641 - 04 - A-01	1	1	1																																																												



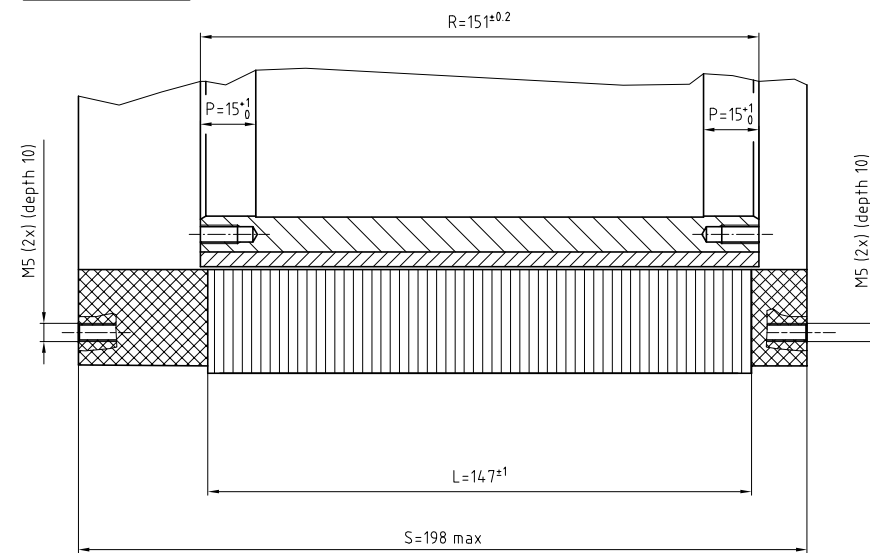
Detail: Y
Magnets safety clearance



Tmm0210-100



Tmm0210-150



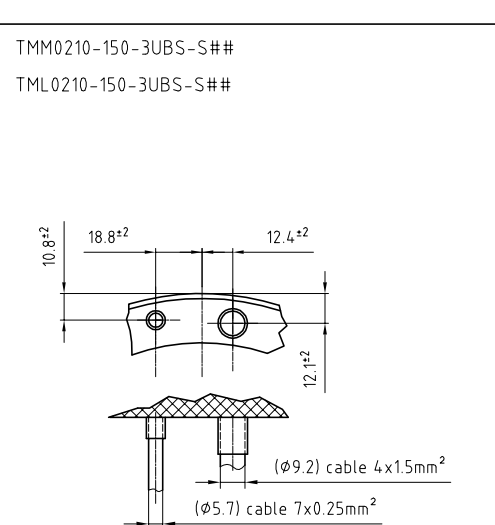
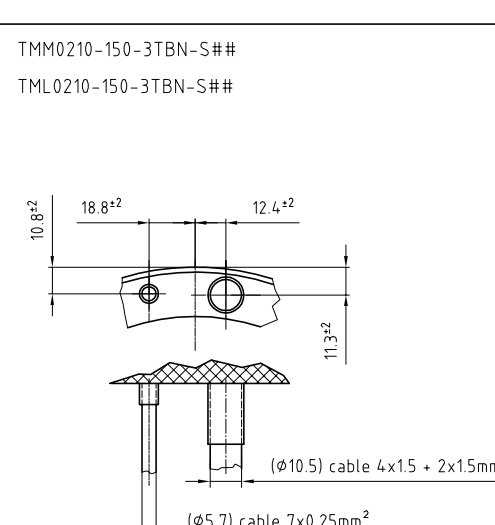
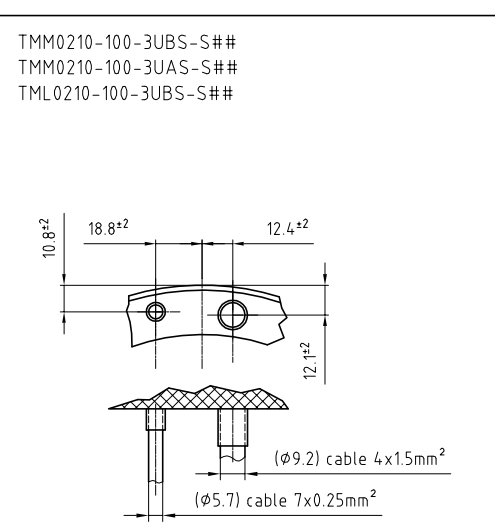
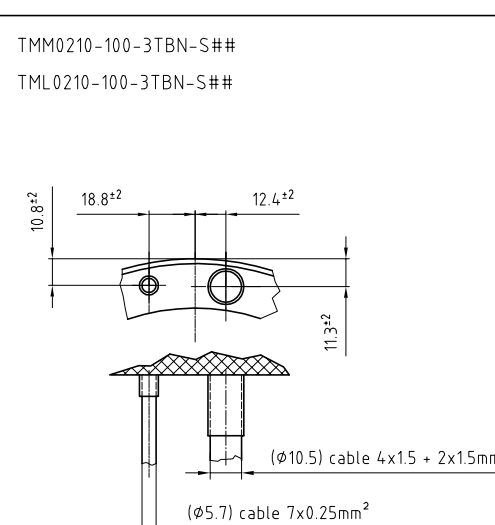
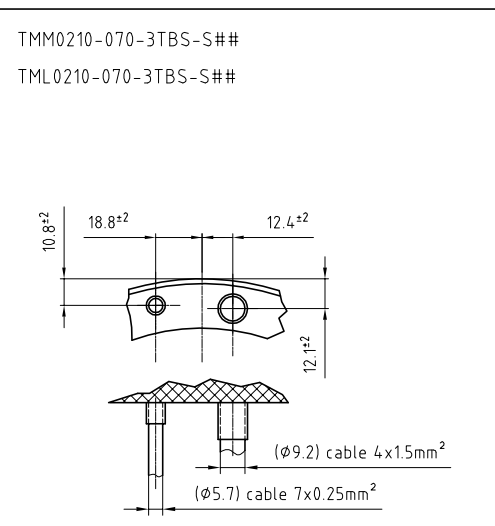
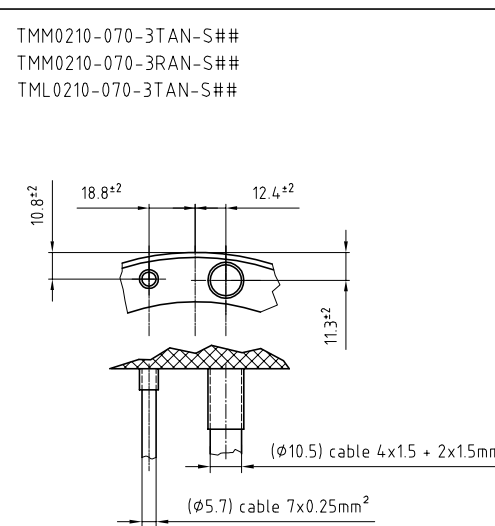
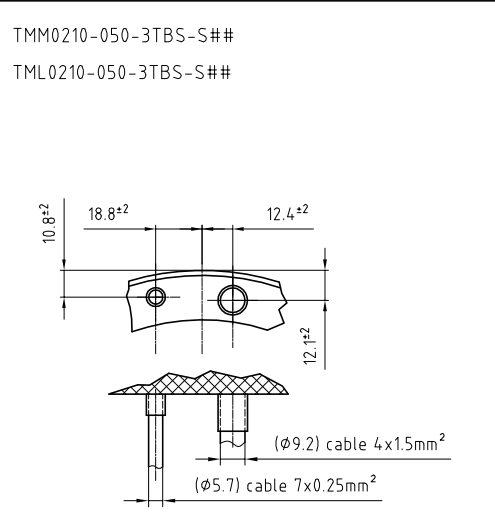
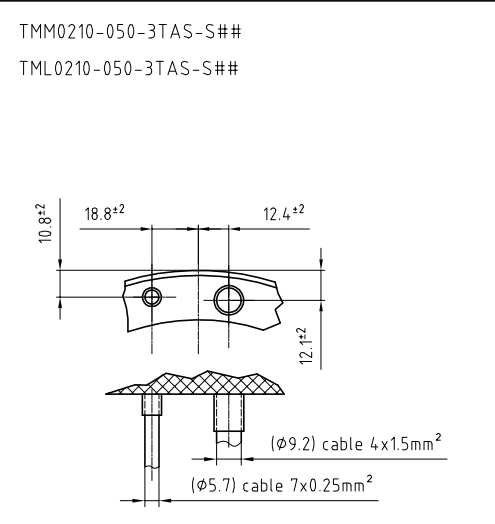
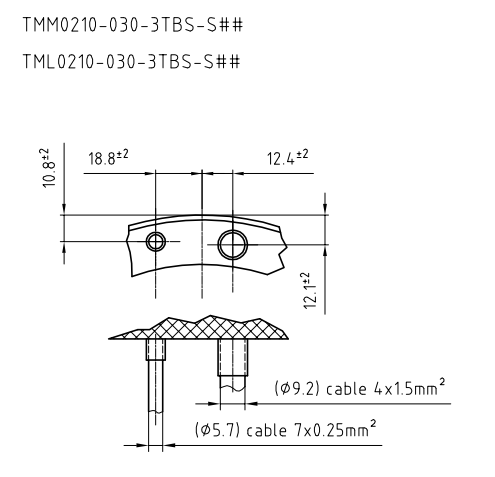
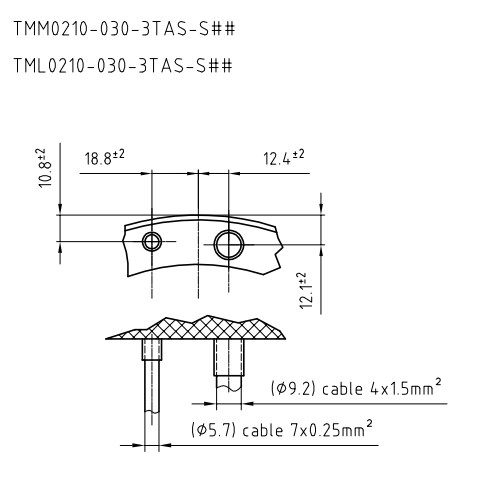
Power cable connection

- 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

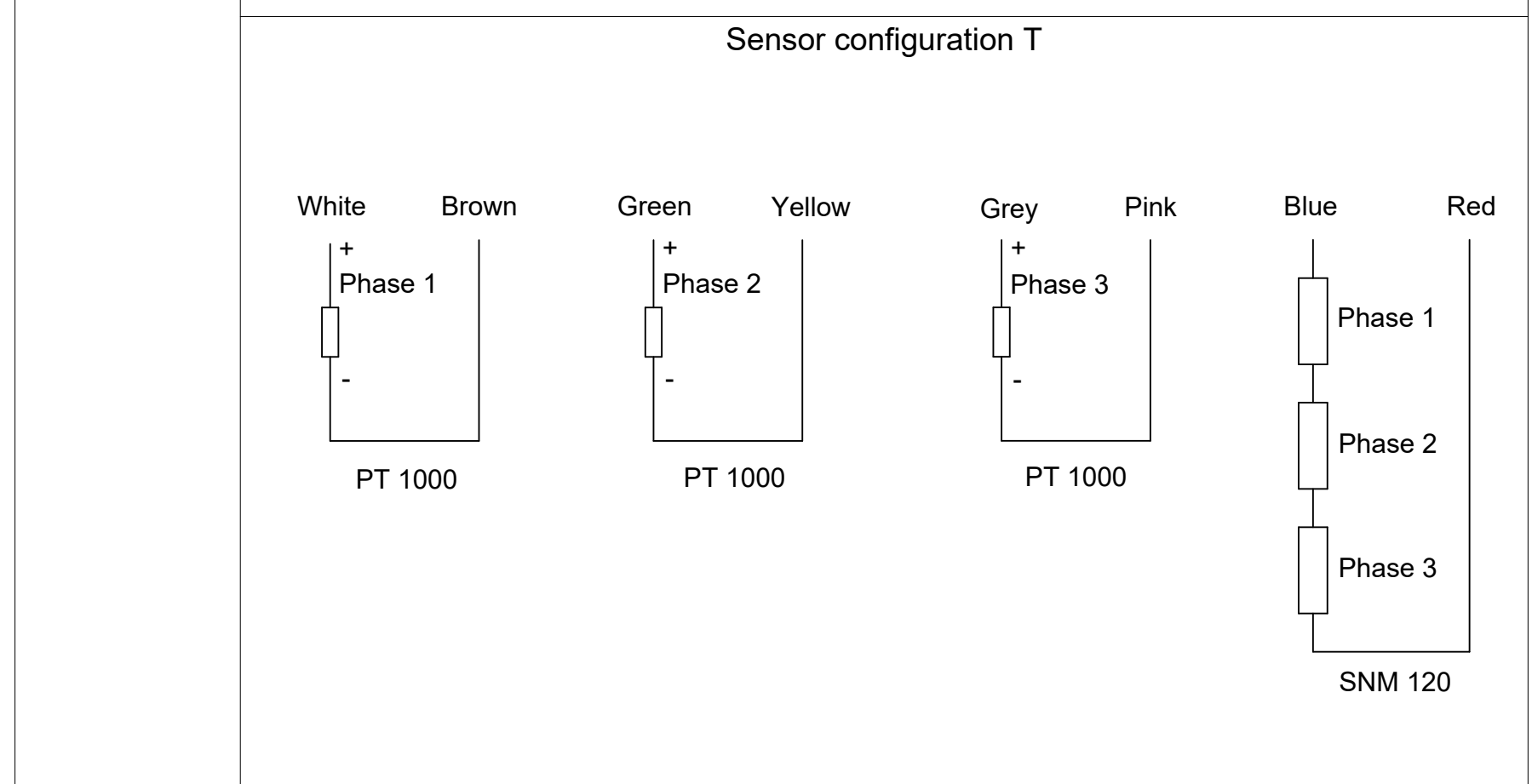
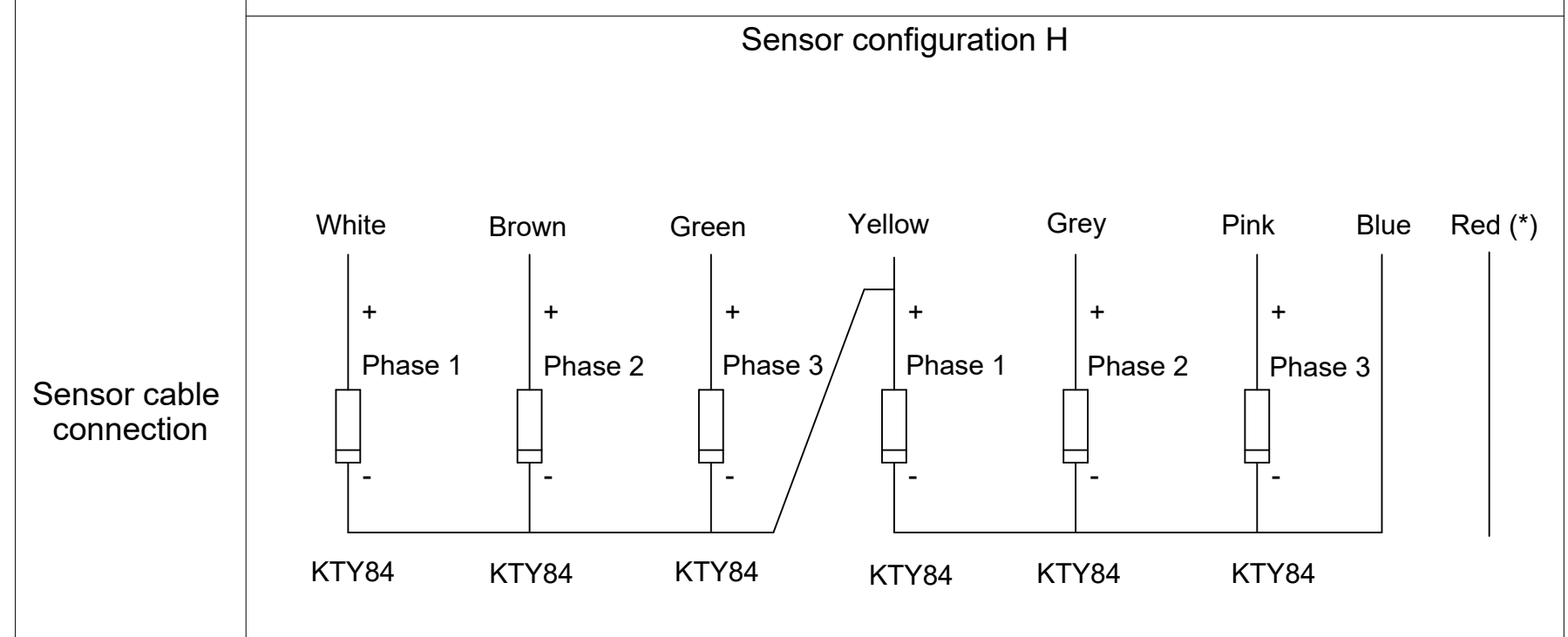
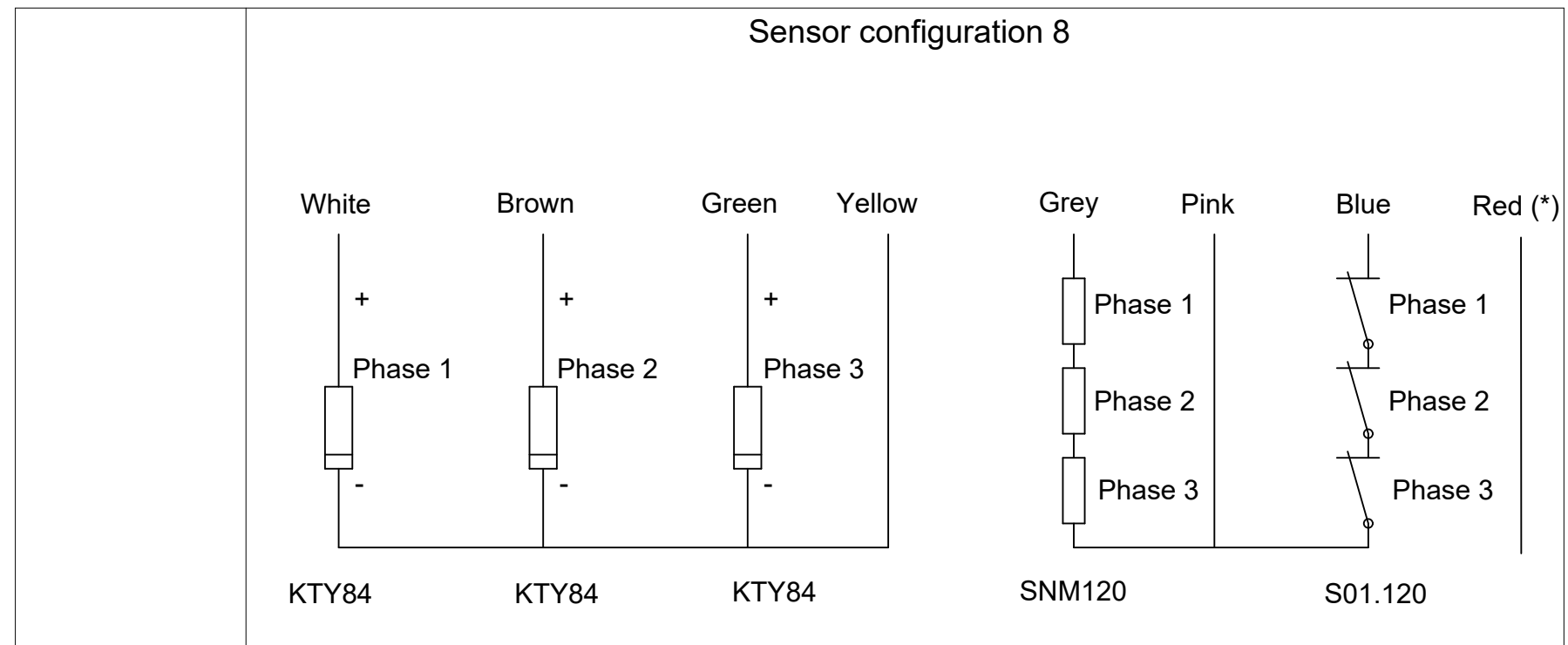
For temperature sensor configuration, see Handbook

ECO N°	29635	Nom	MB0	Date	24.10.2012	Description	
<p>Procédé de tolérancement de base ISO 8015 et tolérance générale selon ISO 2768-mk</p>							
Matériau		Dimension nominale	Linéaire	Rayon	Chanfrein	Dimension nominale	Equivalence rugosité
Remarque		0,5 - 3	±0,1	±0,2		10 - 100	50 N12
Annexe		3 - 6	±0,1	±0,5		100 - 300	25 N11
		6 - 30	±0,2	±1		300 - 1000	12,5 N10
		30 - 120	±0,3	±2		1000 - 3000	6,3 N9
		120 - 400	±0,5	±4			3,2 N8
		400 - 1000	±0,8	±10			1,6 N7
		1000 - 2000	±1,2	±20			0,8 N6
							0,4 N5
							0,2 N4
							0,1 N3
							0,05 N2
							0,025 N1
<p>Arêtes de formes ISO 13715</p>							
<p>Torque motor</p>							
<p>Interface drawing Tmm0210-100 / 150</p>							
<p>Ces plans sont notre propriété. Ils ne doivent pas, sans notre autorisation écrite, être copiés, reproduits, communiqués à des tiers. Leur utilisation est strictement réservée à ETEL S.A.</p>							
Φ210	k10	±0,03	±0,04	±0,05	±0,06	±0,07	±0,08
Φ140	H8	±0,03	±0,04	±0,05	±0,06	±0,07	±0,08
Cote	Ajustement						
<p>Projetion</p>							
<p>Format</p>							
<p>Echelle</p>							
<p>Ancien n° : 0511m-i40-05c</p>							
<p>588602 - 03- A-01</p>							
<p>Feuille Page</p>							
<p>1/1</p>							

08
A



FSM N°	Nom	Date	Description: Elbowed output cable removed	
C064986-5	JGU	04.10.17		
Matière:				Equivalence rugosité
Remarque:				Ra µm Classe
Annexe:				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	Torque motor TMM & TML 210 cables outputs		Auteur	Vérificateur
↙ -0.3 ↘ +0.3	Moteur coupleur fer TMM & TML 0210 sorties de câbles		S. Perrot	-
ETEL S.A. CH-2102 Mülheim SWITZERLAND		Ces plans sont notre propriété. Ils ne doivent pas, sans notre autorisation écrite, être copiés, reproduits, communiqués à des tiers. Leur utilisation est strictement réservée à ETEL S.A.	18.07.2005	-
Projection	Format	Echelle	Ancien n°	Version
↙ ↘	A1		0511m-14.0-03	Revision
			538689	-08-A-1
			Feuille	
			1/1	



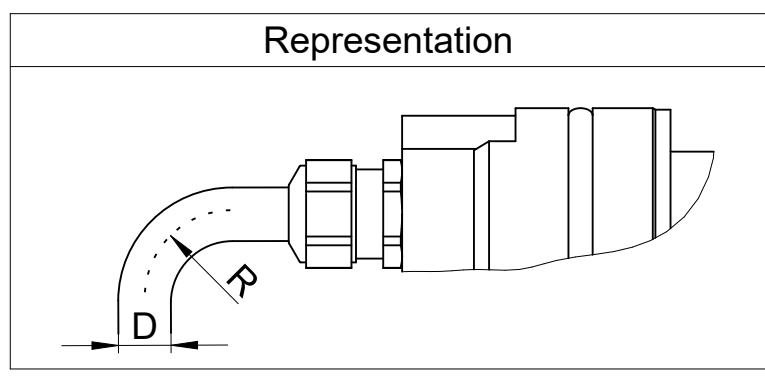
Power cable connection

Color and wire number	Function	Drawing
Black wire with number 1 or U	Phase 1 (PH1)	
Black wire with number 2 or V	Phase 2 (PH2)	
Black wire with number 3 or W	Phase 3 (PH3)	
Yellow and green wire	Ground (GND)	
Black wire with number Br1 or 5 or white cable	Neutral point wire (present only on some motor types)	
Black wire with number Br2 or 6 or black wire without label	None(**)	

(**): This wire is automatically present when the neutral point wire (which is an option) is added in the motor as it is a 2 x 1.5 mm² cable.

Wire section (mm²)

Characteristics	4 x 1.5	4 x 1.5 + 2 x 1.5	4 x 2.5	4 x 2.5 + 2 x 1.5	4 x 4	4 x 4 + 2 x 1.5	4 x 10	4 x 10 + 2 x 1.5	Sensor cable
Applicable motors: TMM / TML	0140 0175 0210 0291 0360 0450	0175 0210 0291 0360 0450 0530	0291 0360	0360 0530	0360 0450 0530	0360 0450 0530	0450 0530	0530	All TMM / TML
Minimum bend radius for fixed cable	R = 4 X D	R = 5 X D	R = 4 X D	R = 5 X D	R = 4 X D	R = 4 X D	R = 4 X D	R = 4 X D	R = 6 X D
Minimum bend radius for moving cable	R = 7.5 X D	R = 7.5 X D	R = 7.5 X D	R = 7.5 X D	R = 7.5 X D	R = 7.5 X D	R = 7.5 X D	R = 7.5 X D	R = 12 X D



(*): Red wire (if present) is not connected on the motor side and cutted flush on cable extremity.

Text:		ID number:	
Original drawing		Change No. C145178-05	
Scale		Released: 20-Sep-22	
Format		Tolerances as per ISO 8015 : 2011	
Dimensions in mm		Tolerances selon ISO 8015 : 2011	
1:1		Dimensions without tolerance ± 0,2	
A2		Dimensions sans tolérances	
Mating Dimensions / Cotes d'encombrement			
The reproduction, distribution and utilization of this document as well as the communication of its contents to others without express authorization is prohibited. Offenders will be held liable for the payment of damages. All rights reserved in the event of the grant of a patent, utility model or design. (ISO 16016)			
ETEL		ETEL S.A. 2112 Môtiers SWITZERLAND	
Version		Revision	
Sheet		Page	
1		1	
Document number		1389869-00 - A-01	