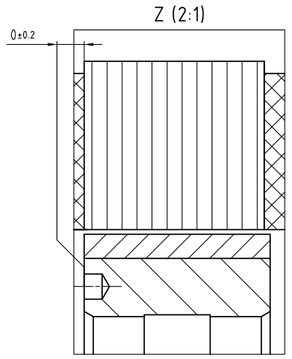
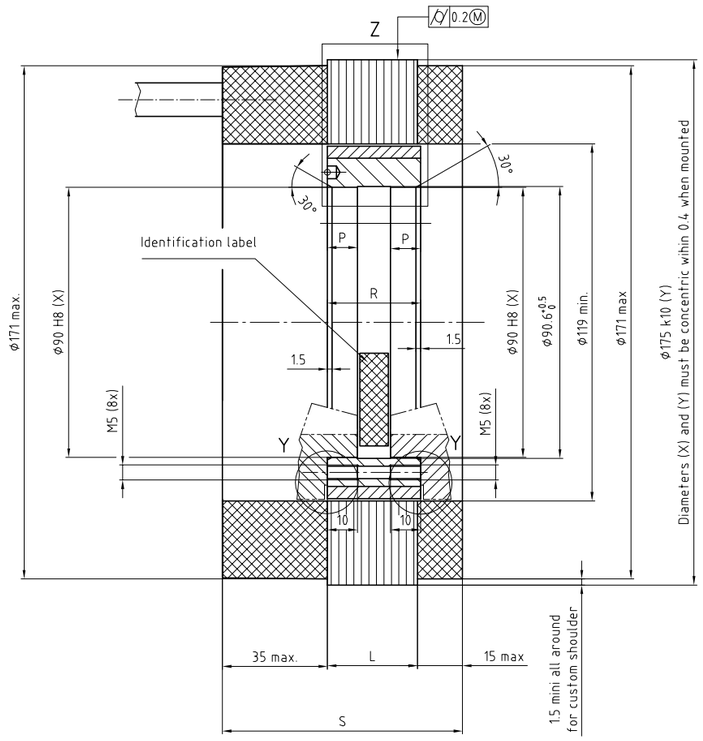
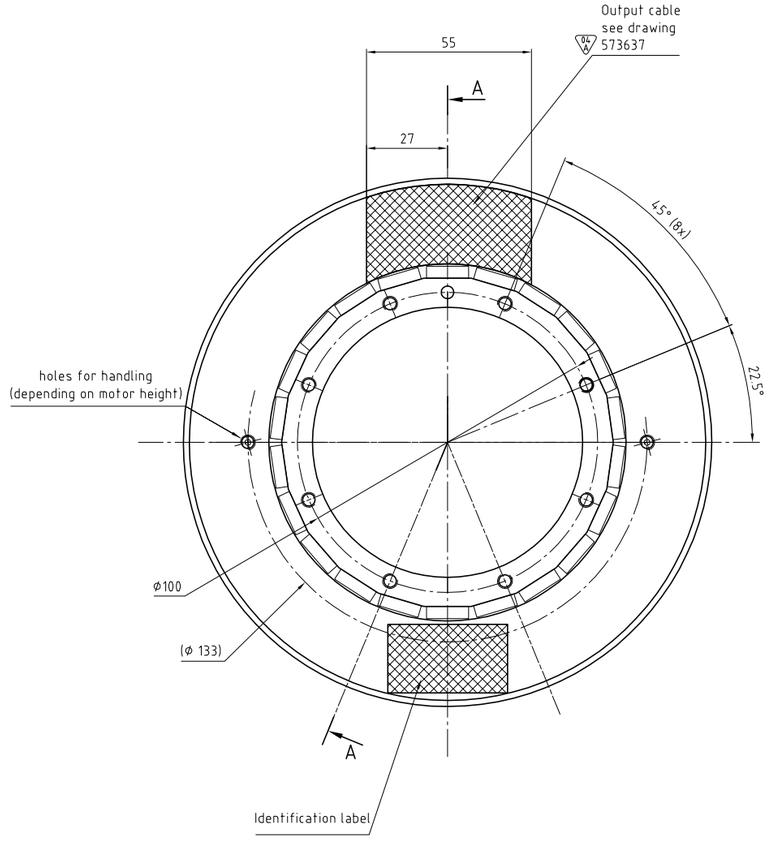
Mounting condition

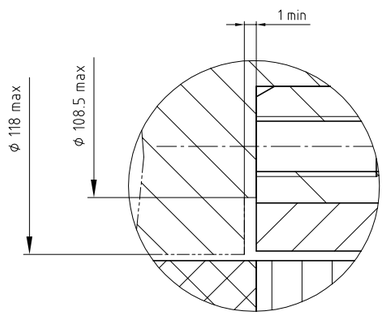




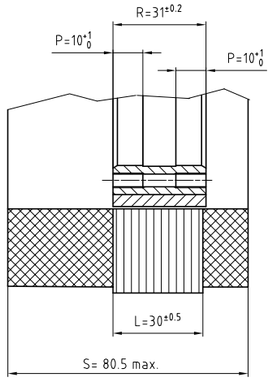


Detail:Y

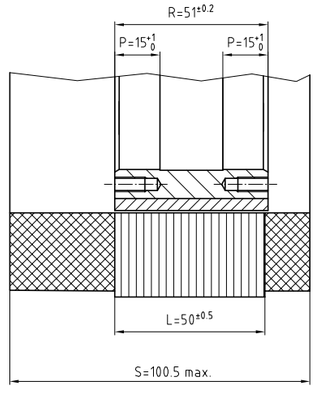
Magnets safety clearance



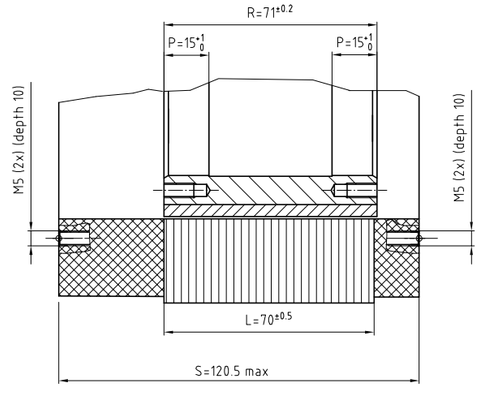
Tmm0175-030



Tmm0175-050



Tmm0175-070



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 Tmm0175-030 / 050 / 070

Auteur	Vérificateur	Libérateur
C. Blaser		-
22.12.2005		-

ϕ175	k10	+0.36 0 / 175.36 175
ϕ90	H8	+0.054 0 / 90.054 90
Cote	Ajustement	

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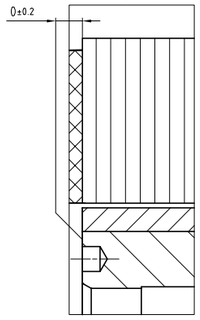
CH-2112 Môtiers
SWITZERLAND

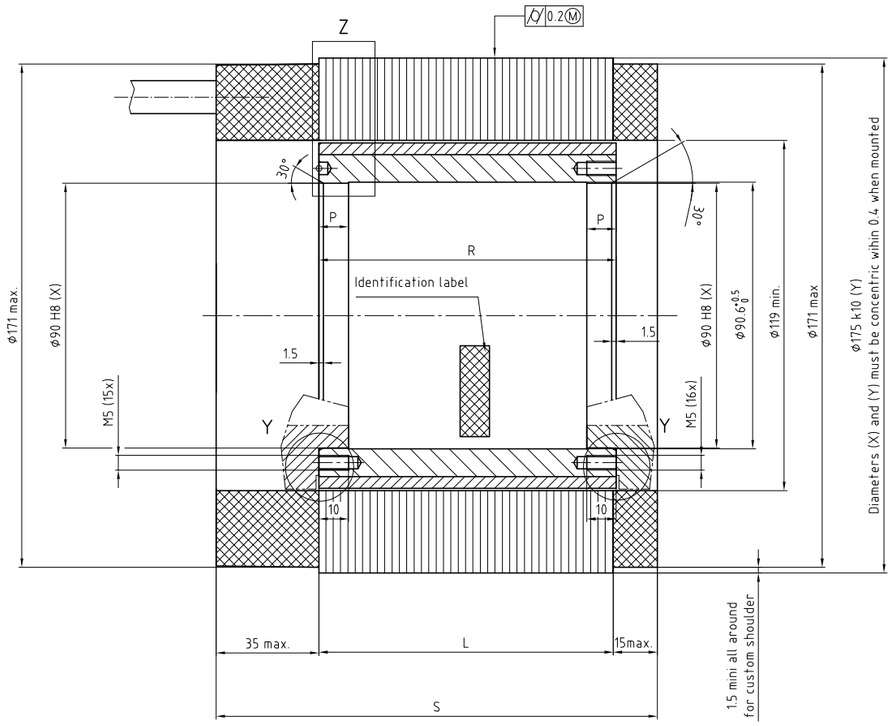
Projection	Format	Echelle	Ancien n° : 0506m-i40-06d	Version	Revision	Feuille	Page
	A1	1:1	582052 -04- A-01			1/1	

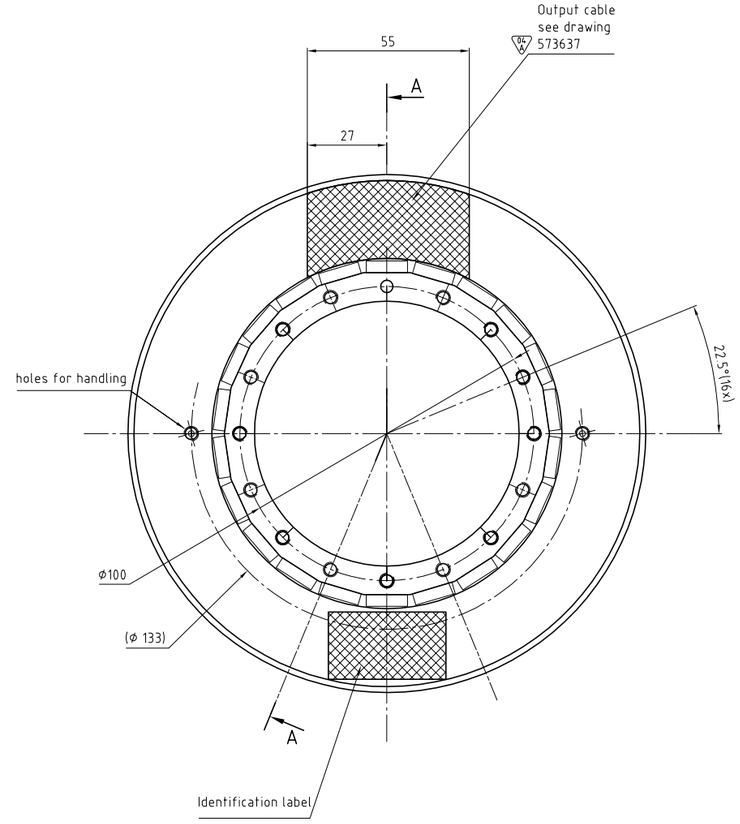
Numéro de document

Mounting condition

Z (2:1)



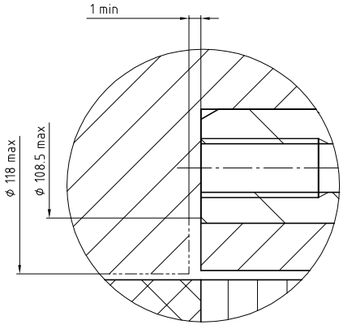




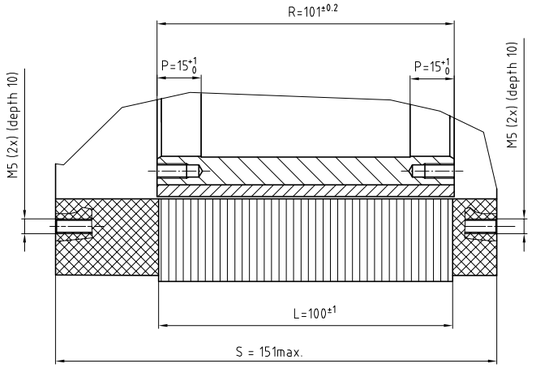
04 Detail:Y

Magnets safety clearance

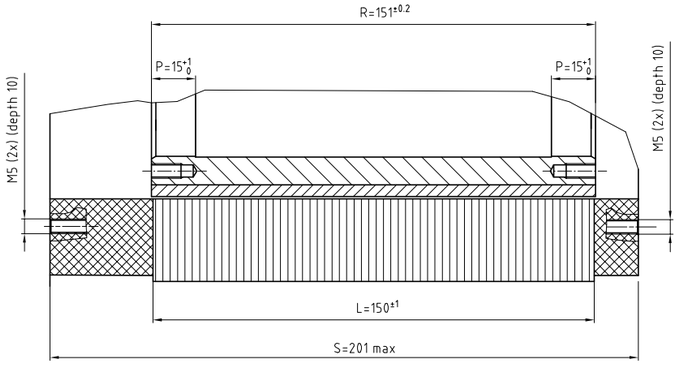
Y (4:1)



Tmm0175-100



Tmm0175-150



Power cable connection

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

For temperature sensor configuration, see Handbook

04 A	ECO N°	Nom	Date	Description :
	C29935	MBO	18.10.2012	-

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≤	Lk≤
... 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 Tmm0175-100/150

Auteur	Vérificateur	Libérateur
S. Perrot		-
01.09.05		-

ϕ175	k10 +0.96 175.56 175
ϕ90	H8 +0.054 90.054 90
Cote	Ajustement

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Projection	Format	Echelle
	A1	1:1

Ancien n° : 0506m-i40-08c | Version | Revision | Feuille | Page

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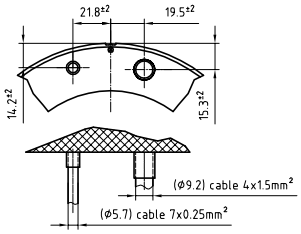
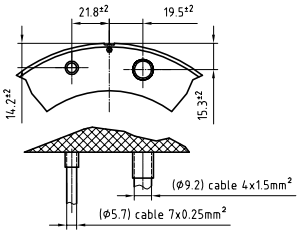
Numéro de document

06
A

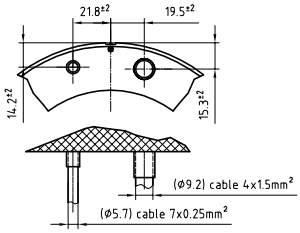
TMM0175-030-3TAS-S##



TMM0175-030-3UBS-S##



TMM0175-050-3TAS-S##



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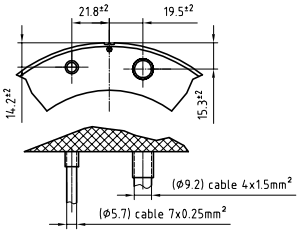
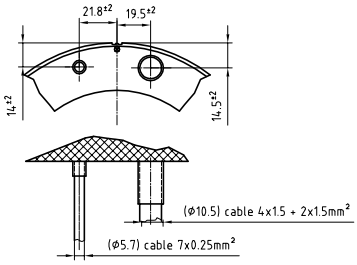


TMM0175-070-3TAN-S##



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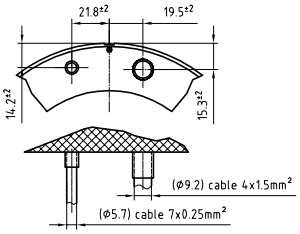
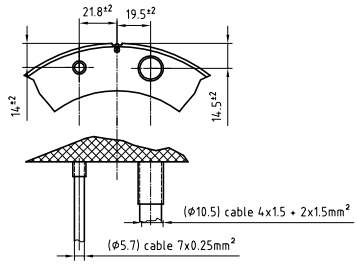
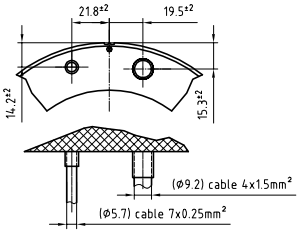


TMM0175-100-3TAN-S##



TMM0175-100-3UBS-S##



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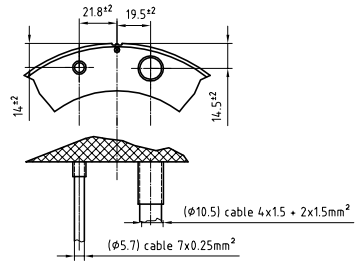
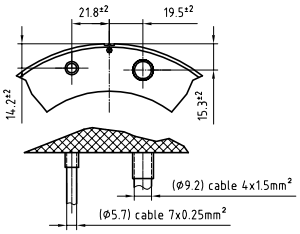


TMM0175-150-3UBS-S##



FSM N°	Nom	Date	Description : Elbowed output cable removed
C064986-5	JGU	04.10.2017	

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 TMM0175 cables outputs

Moteur couple for TMM0175 sorties de câbles

Auteur	Vérificateur	Libérateur
S. Perrot	-	-
05.09.05	-	-

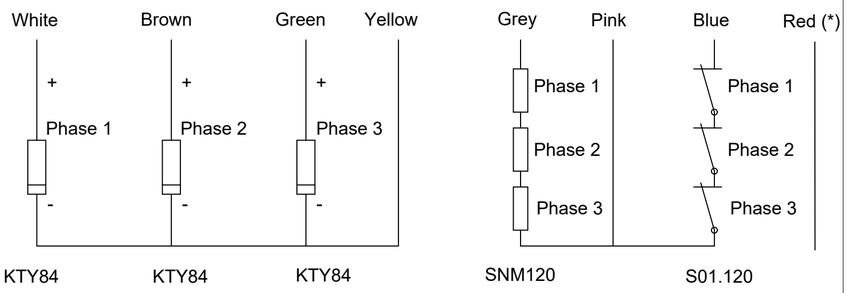
ETEL S.A. CH-2112 Môtiers SWITZERLAND

Projection	Format	Echelle	Ancien n° : 0506m-140-04	Version	Revision	Feuille	Page
	A1		573637 -06- A-1			1	1

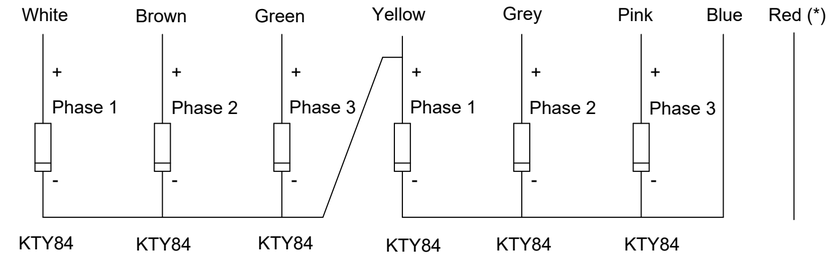
Numéro de document

Sensor cable connection

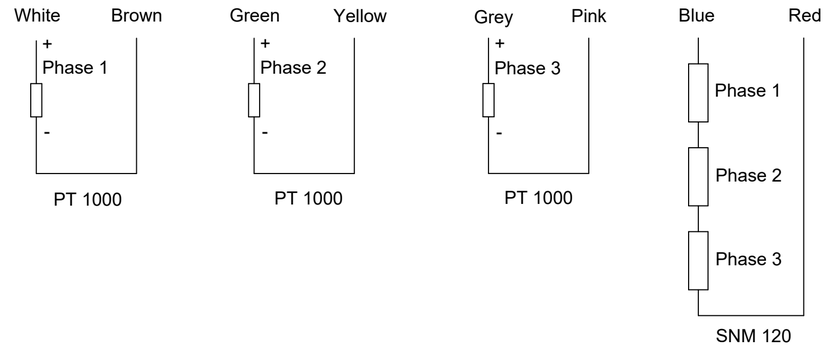
Sensor configuration 8



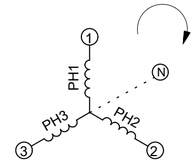
Sensor configuration H



Sensor configuration T



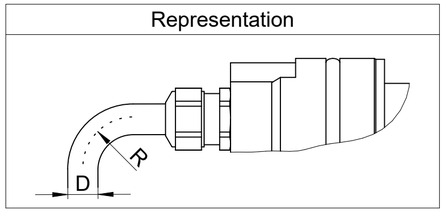
(*): Red wire (if present) is not connected on the motor side and cutted flush on cable extremity.

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

Representation



Text:			ID number:
			Change No. C145178-05
			Released: 20-Sep-22
Original drawing	Scale 1:1	Format A2	TMM / TML sensor config. and cables prop. (interface) TMM / TML config. capteur et prop. câbles (interface) Mating Dimensions / Cotes d'encombrement
			Tolerances as per ISO 8015 : 2011 Tolérances selon ISO 8015 : 2011
Dimensions in mm			Dimensions without tolerance Dimensions sans tolérances ± 0,2

ETEL S.A.
2112 Môtiers
SWITZERLAND

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Document number: 1389869-00 - A-01

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