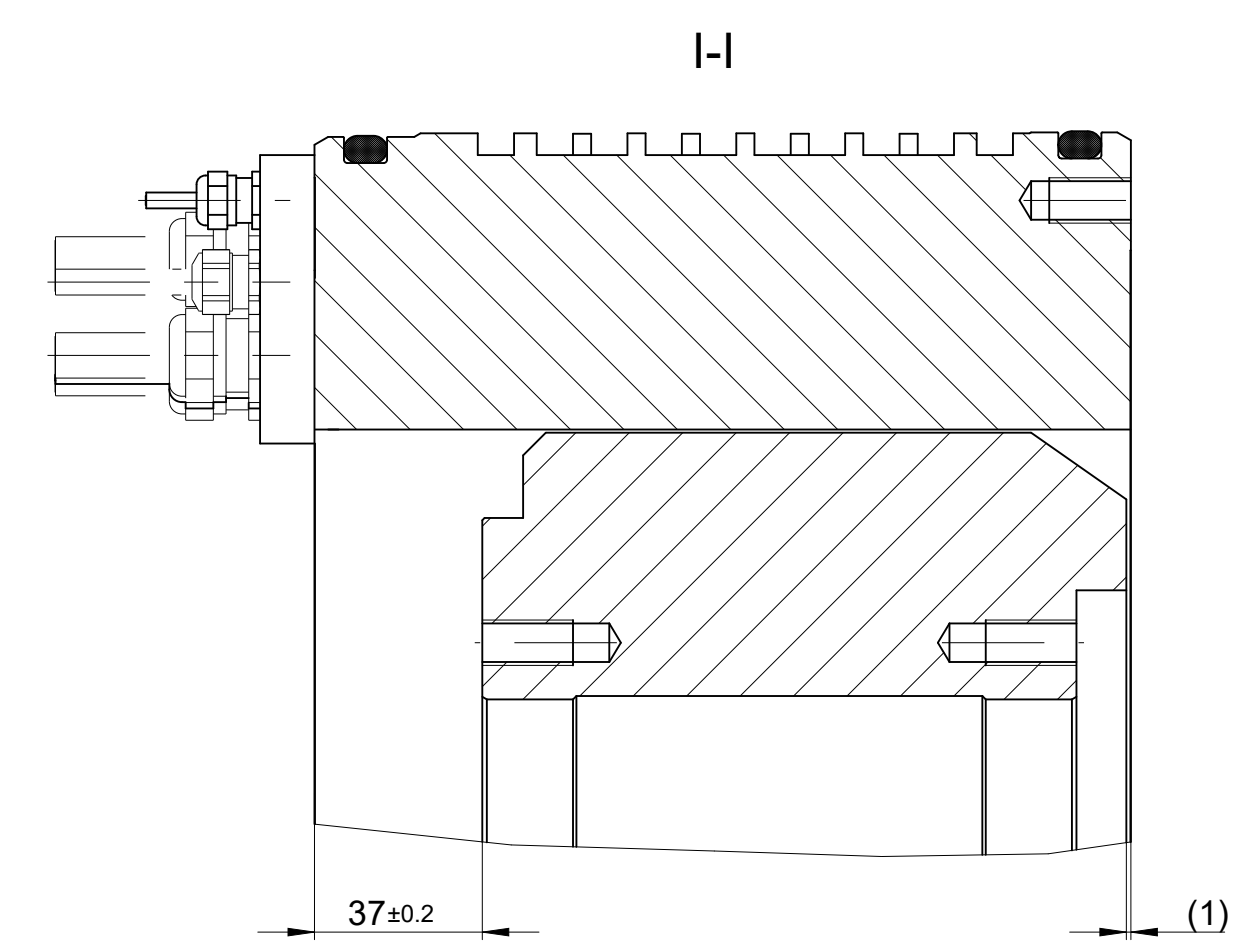
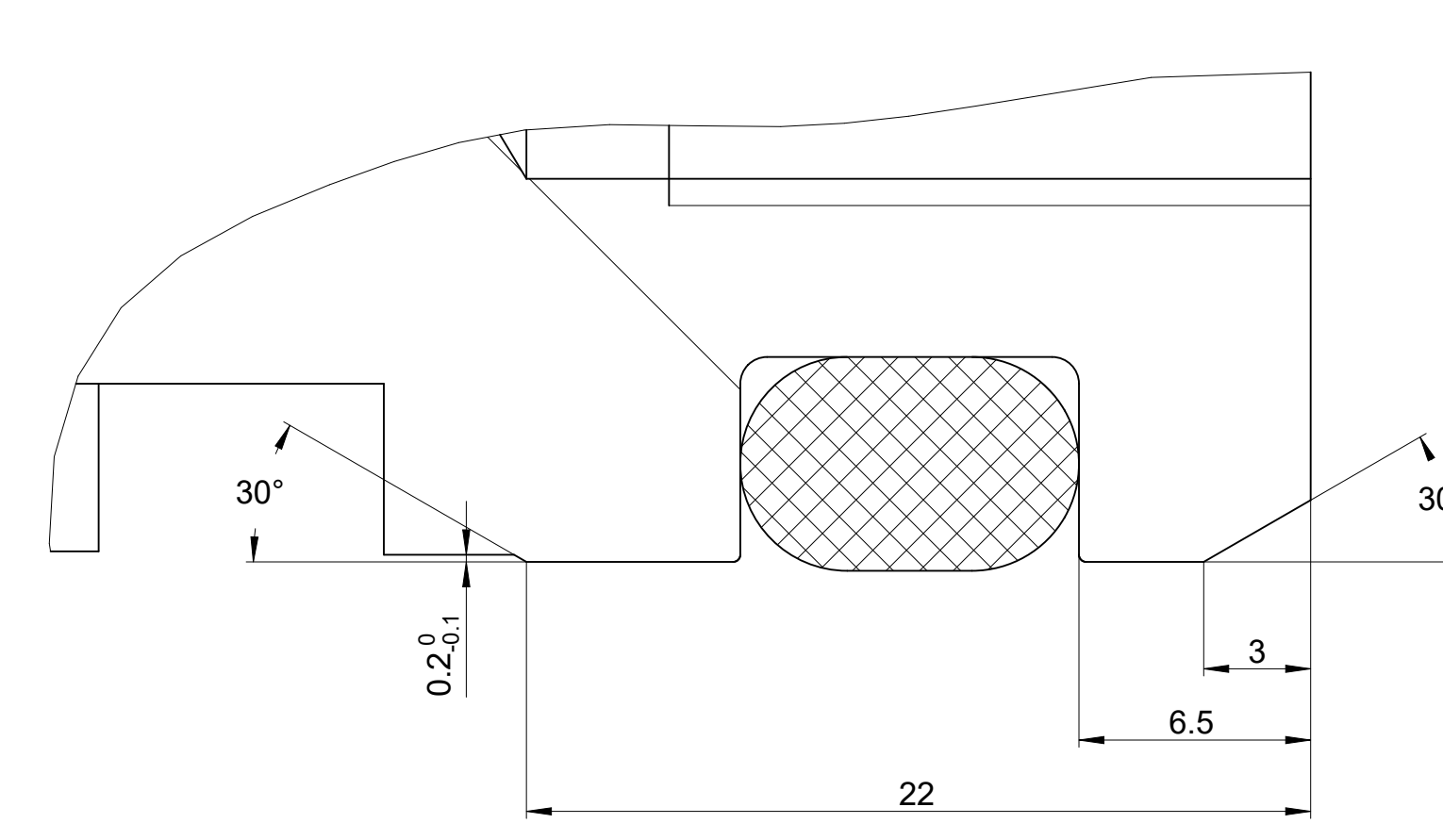
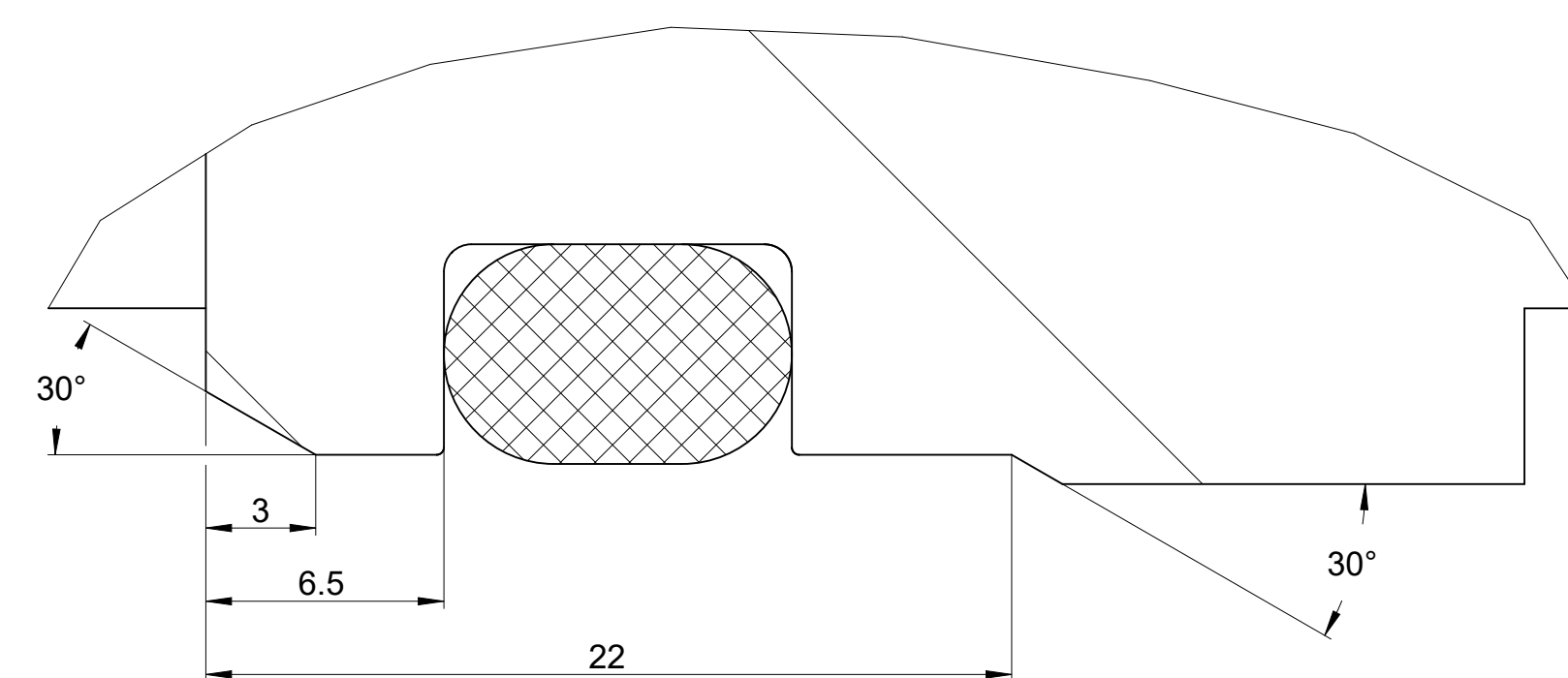
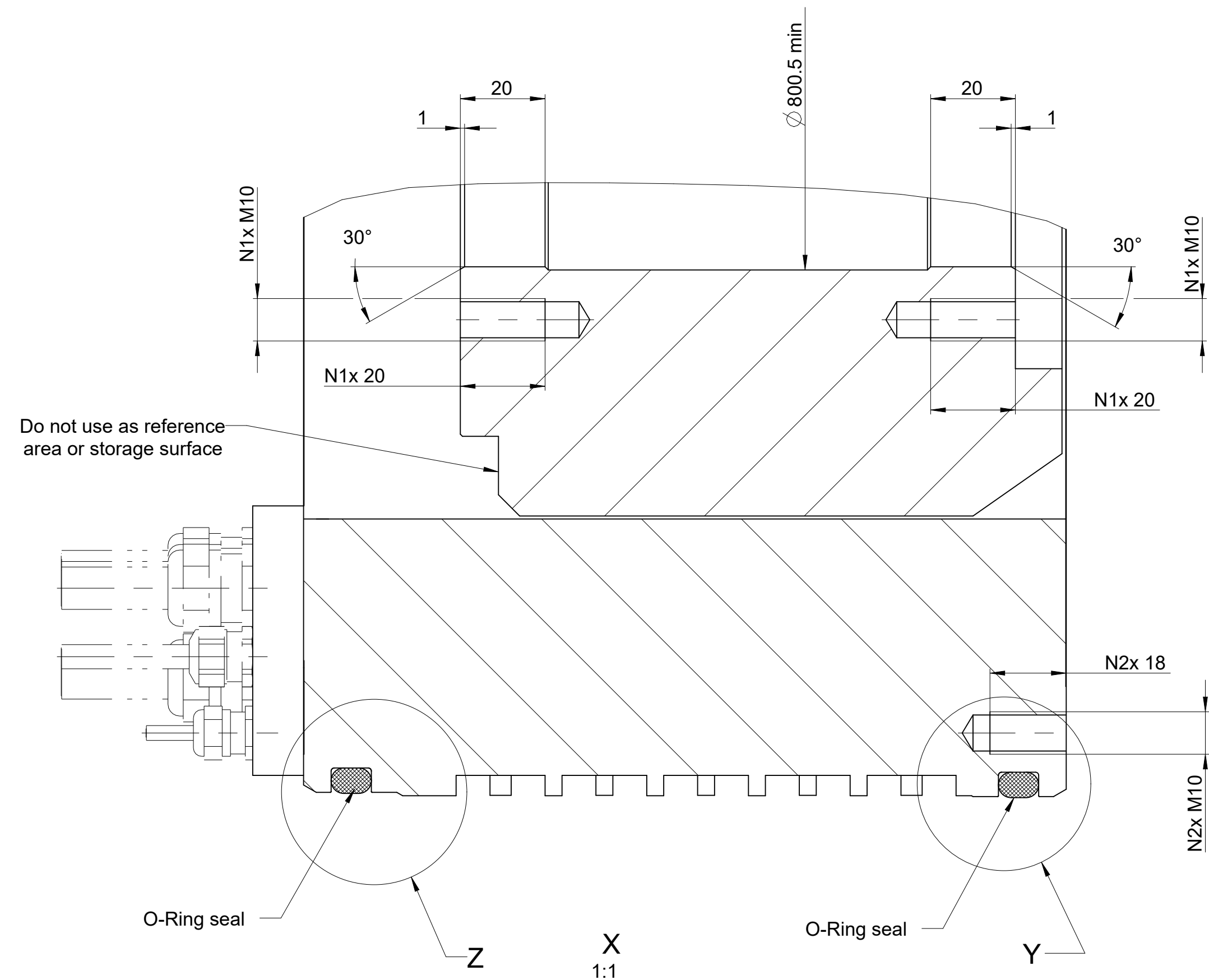
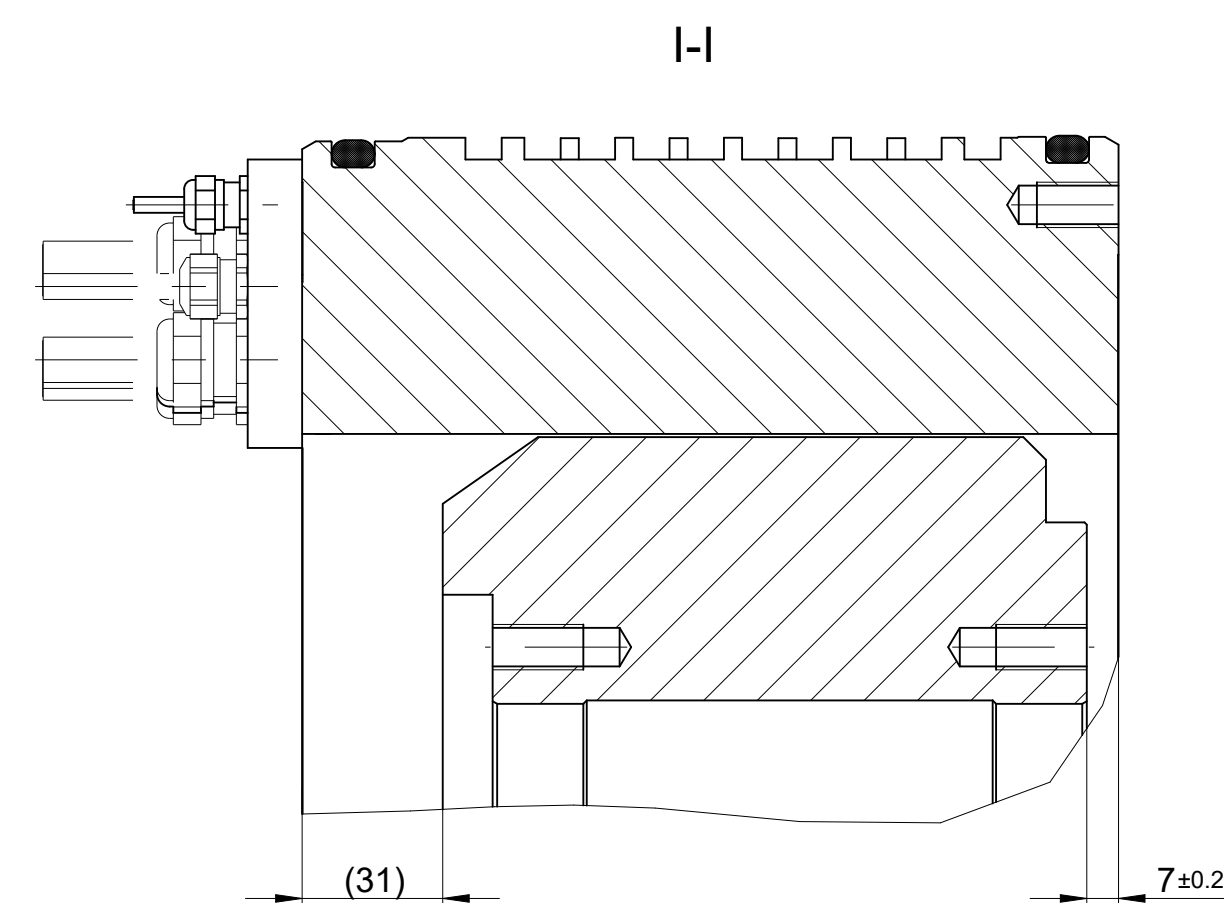


Rotor shoulder position on cable side



Rotor shoulder position on opposite cable side

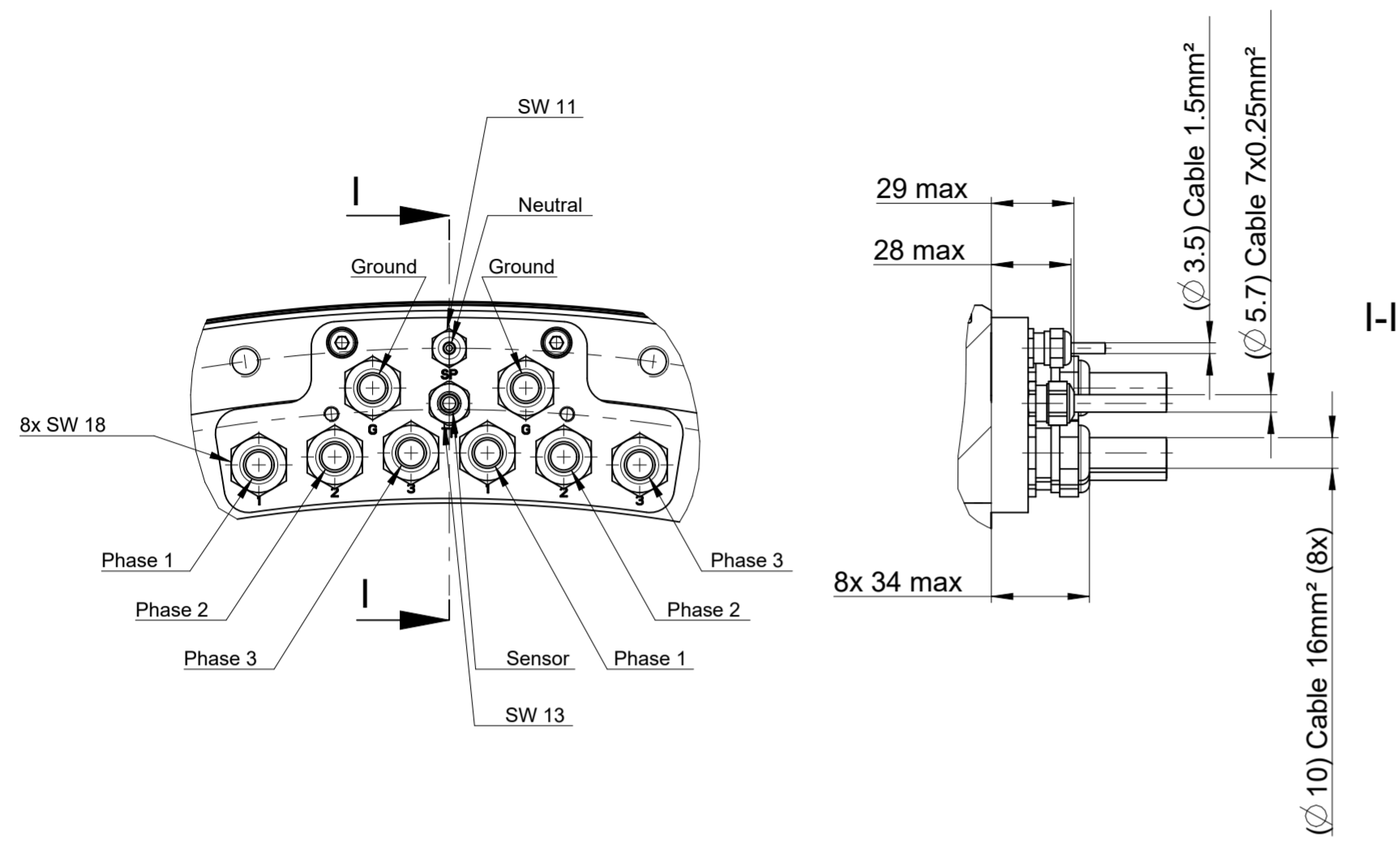


! Use M10 screws with 12.9 quality to assemble rotor and stator

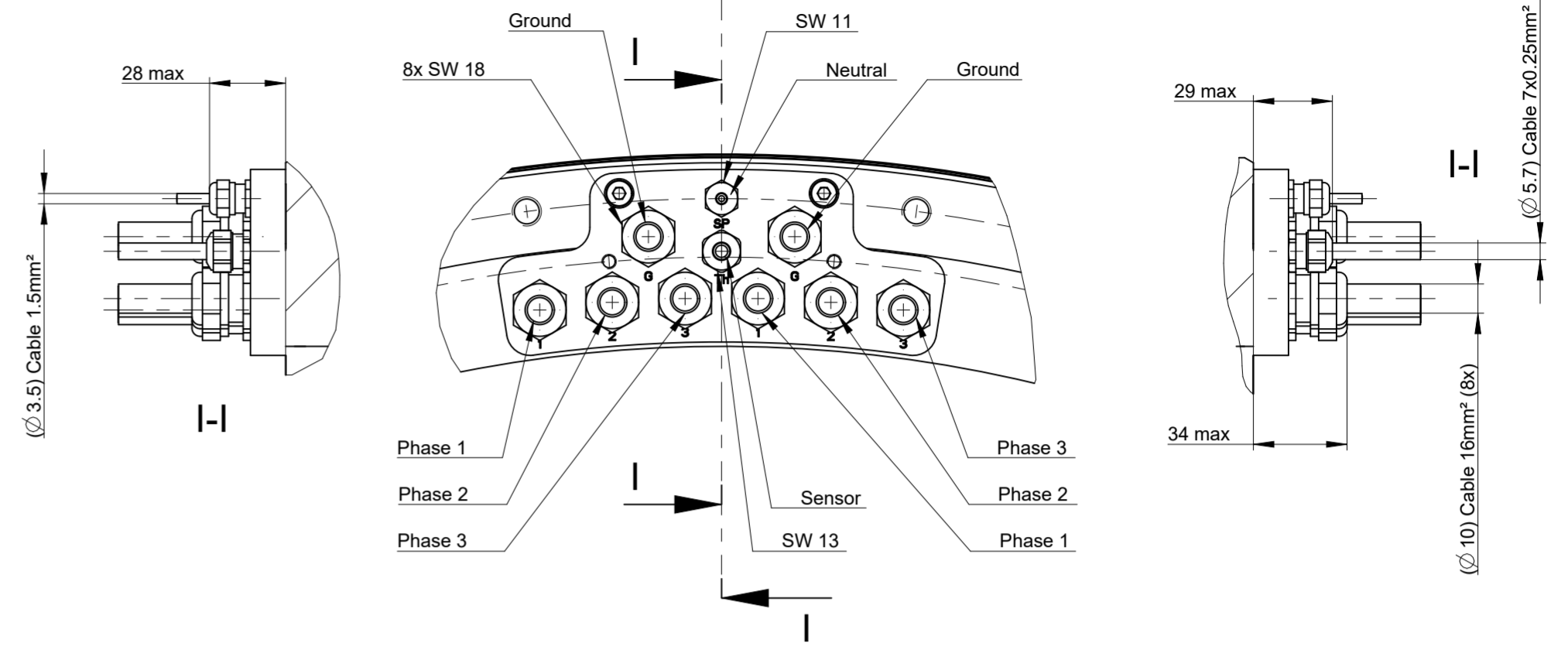
PRODUCT	L1	L2	L3	N1	N2	N3	β
TMK-0991-050	130	81	60	24	24	12	15°
TMK-0991-070	150	101	80	24	24	12	15°
TMK-0991-100	180	131	110	48	48	23	7.5°
TMK-0991-150	230	181	160	48	48	23	7.5°

Text		ID number	
Original drawing	Scale	Format	Change No.
RoHS 3:10 A0			C115144-07
Torque motor TMK0991 (interface)		Released:	
Moteur coupleur fer TMK0991 (interface)		18-09-2020	
Material:		Material:	
Matériau:		Matériau:	
Dimensions in mm / Cotes en mm		Matting Dimensions / Cotes d'assemblage	
Worked edges ISO 13715		General tolerances ISO 2768-mK	
Surfaces as per ISO 1302		Surface treatment:	
Etats de surface selon ISO 1302		Traitement de surface:	
Tolerances as per ISO 8015:2011		Surface treatment:	
Tolerances selon ISO 8015:2011		Traitement de surface:	
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ETEL S.A. 2112 Môtres SWITZERLAND		Version (Revision/Sheet): Page 1 of 1	
812291-08-A-01		Document number	

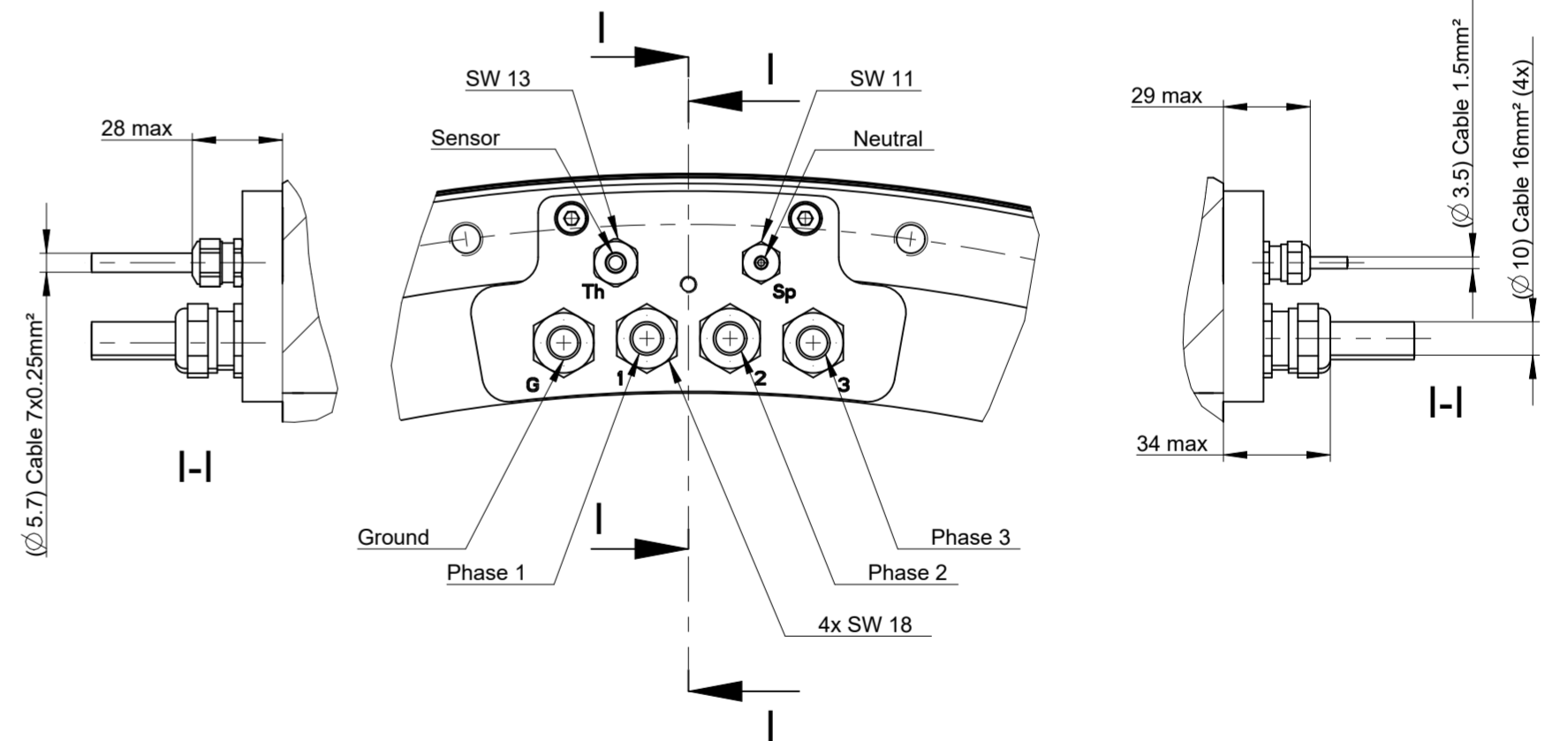
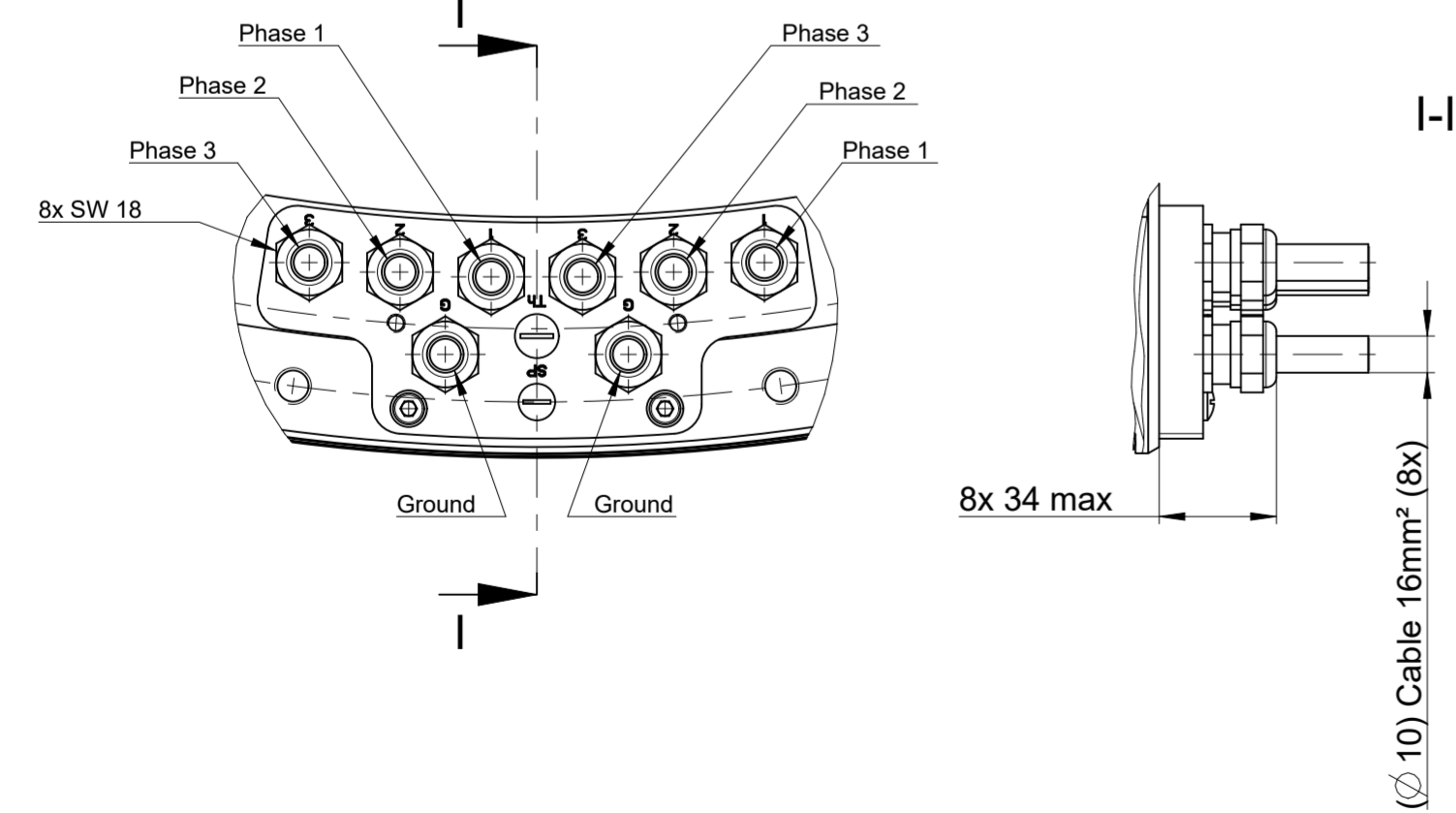
TMK0991-3UZN-U##



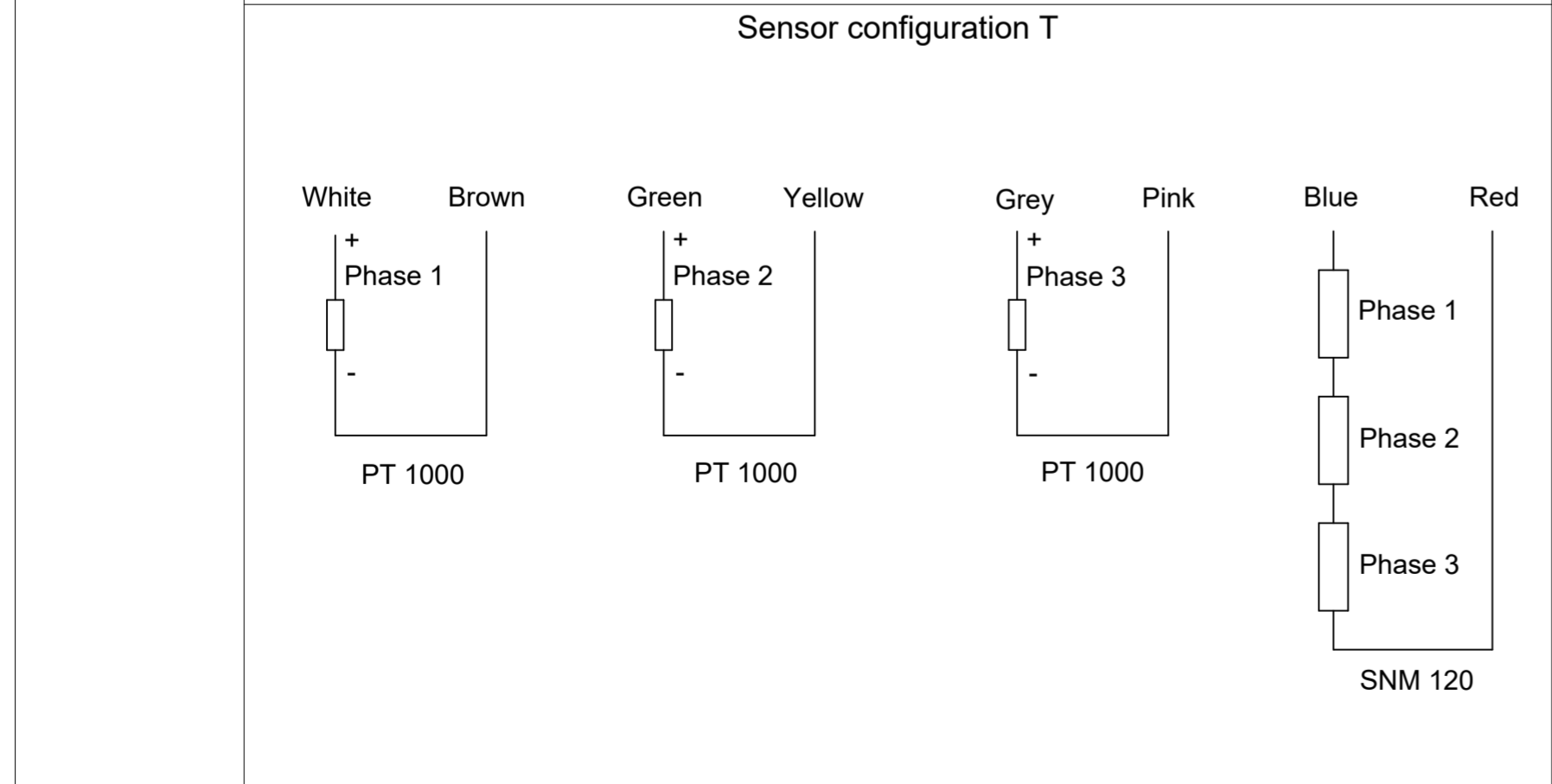
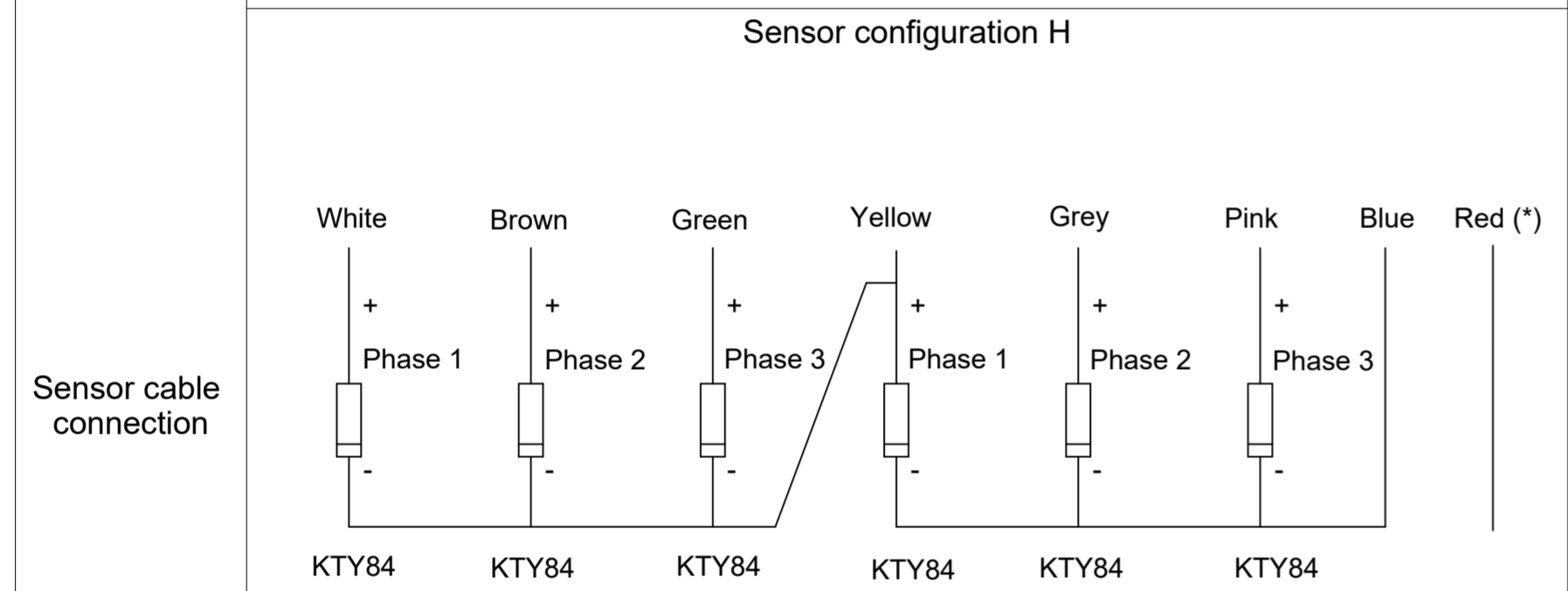
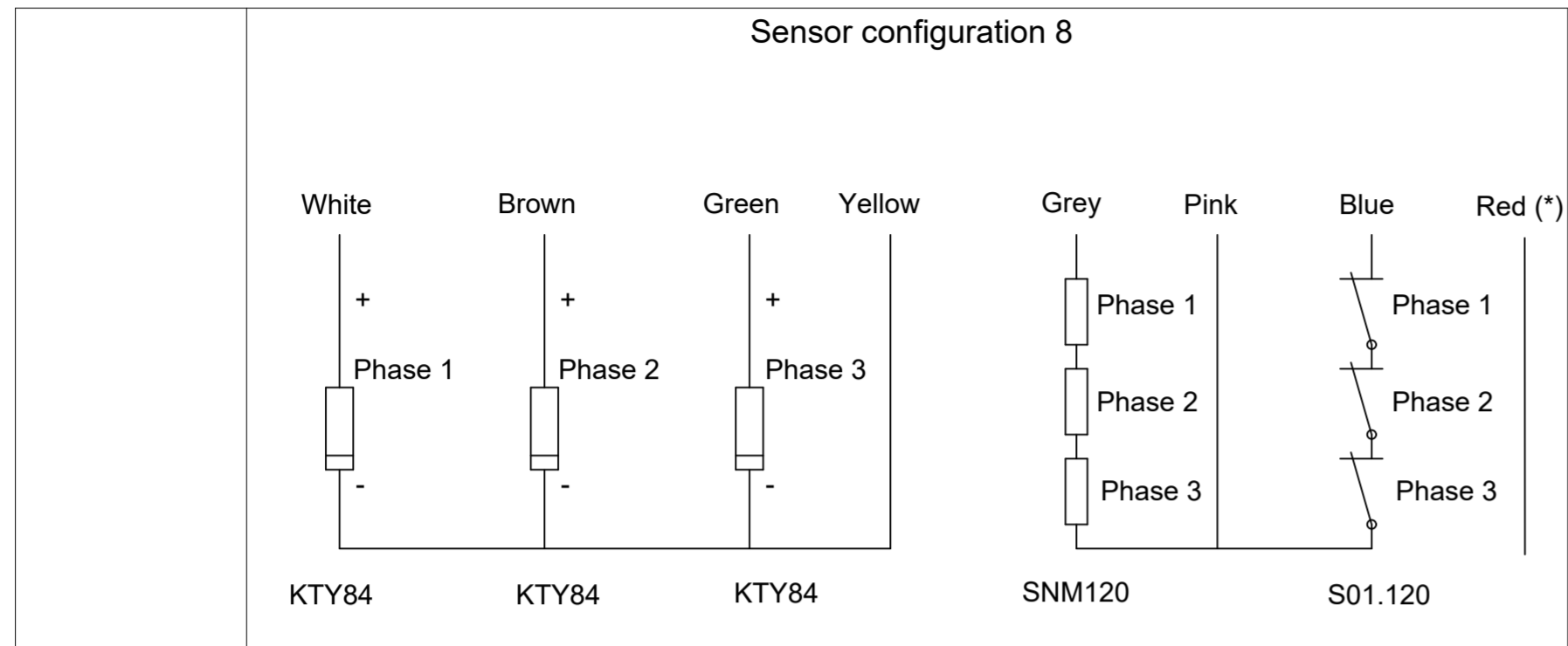
TMK0991-3UPN-U##



TMK0991-3SPN-U##



Text:		ID number	
Original drawing Scale: 1:2 Format: A2		Change No. C115144-07 Released: 18.09.2020	
RoHS	Torque motor TMK0991 cables outputs (interface) Moteur couple fer TMK0991 sorties de câbles (interface)		Material: Matière:
Dimensions in mm / Cotes en mm		Mating Dimensions / Cotes d'encombrement	
Workpiece edges ISO 13715 Arêtes de formes selon ISO 13715		General tolerances ISO 2768-mK Tolérances générales ISO 2768-mK	
Surfaces as per ISO 1302 Etats de surface selon ISO 1302		Surface treatment: Traitement de surface:	
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(\*): Red wire (if present) is not connected on the motor side and cutted flush on cable extremity.

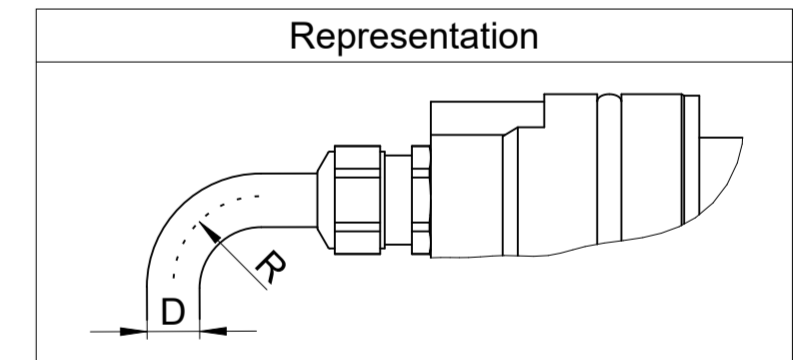
### Power cable connection

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 or 2 x 1.5 mm<sup>2</sup> cable.

### Wire section (mm<sup>2</sup>)

Characteristics	1 x 1.5	1 x 2.5	1 x 4	1 x 6	1 x 10	1 x 16	Sensor cable
Applicable motors	TMK0291 TMK0360 TMK0761 TMK0991	TMK0175 TMK0291 TMK0360 TMK0530	TMK0360	TMK0175 TMK0360 TMK0530	TMK0291 TMK0530 TMK0761	TMK0360 TMK0530 TMK0761 TMK0991	All TMK
Minimum bend radius for fixed cable	R = 5 X D	R = 4 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 = 10 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



Text:		Original drawing Scale: 1:1 Format: A2		TMK sensor config. and cables prop. (interface)		ID number	
RoHS		1:1 A2		TMK config. capteur et prop. câbles (interface)		Change No. C115144-05 Released: 18.09.2020	
Workpiece edges ISO 13715 Arêtes de formes selon ISO 13715		General tolerances ISO 2768-mK Tolérances générales ISO 2768-mK		Surfaces as per ISO 1302 Etats de surface selon ISO 1302		Material: Matière:	
Tolerances as per ISO 8015 : 2011 Tolérances selon ISO 8015 : 2011		Surface treatment: Traitement de surface:		Version/Revision/Sheet		Page	
ETEL		ETEL S.A. 2112 Môtiers SWITZERLAND		1328572-00-A-01		1 of 1	
				Document number			