

A

B

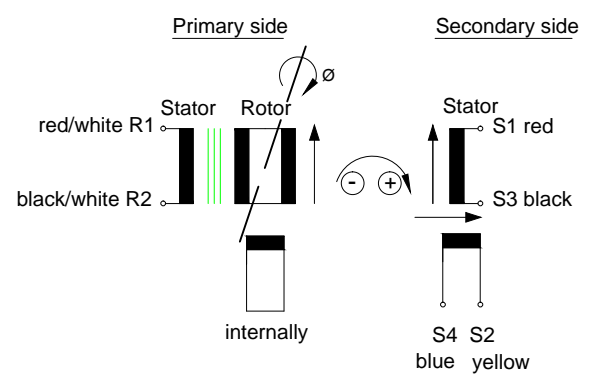
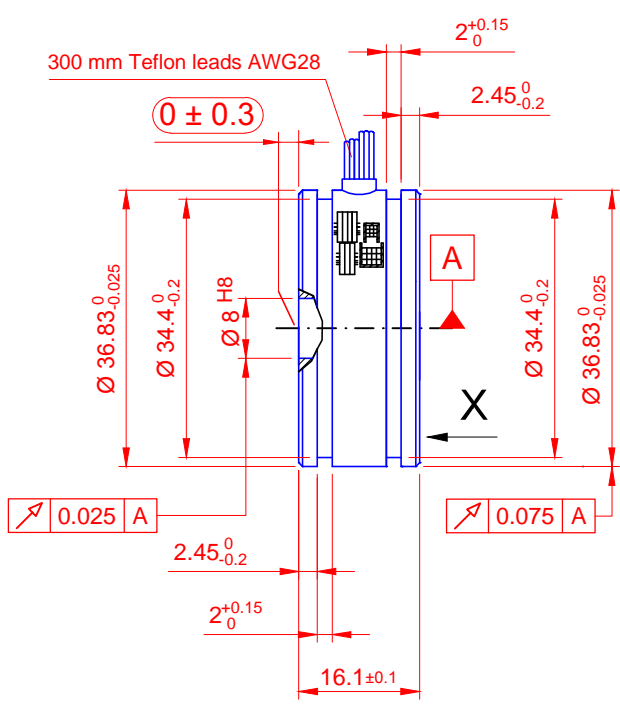
C

D

E

F

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Input : $E(R1-R2) = E \sin(\omega t)$
 Output : $E(S1-S3) = Tr \times E(R1-R2) \cos \theta$
 $E(S2-S4) = Tr \times E(R1-R2) \sin \theta$
 Tr = Transformation ratio
 Inner diam. stator = 22.800 min.
 Outer diam. rotor = 22.325 max.
 Positive counting direction : Rotor cw as viewed (X →)

Primary side	R1 - R2	R1 - R2
Pole pairs	1	1
Transformation ratio	0,5 ± 10%	0,5 ± 10%
Input voltage	7 V	7 V
Input current	58 mA	36 mA
Input frequency	5 kHz	10 kHz
Phase shift	8° ± 3°	-6° ± 3°
Null voltage	30 mV max.	30 mV max.
Impedance		
Zro	75 + j 98 Ω	110 + j 159 Ω
Zrs	70 + j 85 Ω	96 + j 150 Ω
Zso	180 + j 230 Ω	245 + j 400 Ω
Zss	170 + j 200 Ω	216 + j 370 Ω
D.C. resistancea at 20°C		
Rotor	40 Ω ± 10%	40 Ω ± 10%
Stator	102 Ω ± 10%	102 Ω ± 10%
Accuracy	±6'	±6'
Accuracy ripple	1' max.	1' max.
Operating temperature	-55° C ...+155° C	-55° C ...+155° C
Max. permissible speed	20.000 rpm	20.000 rpm
Shock (11 ms)	≤ 1000 m/s ²	≤ 1000 m/s ²
Vibration (10 to 500 Hz)	≤ 500 m/s ²	≤ 500 m/s ²
Weight rotor/stator	25 g / 60 g	25 g / 60 g
Rotor moment of inertia	0.02 x 10 ⁻⁴ kgm ²	0.02 x 10 ⁻⁴ kgm ²
Hi-pot housing/winding	500 V min.	500 V min.
Hi-pot winding/winding	250 V min.	250 V min.
Rotor	Completely impregnated	Completely impregnated
Stator	Completely impregnated	Completely impregnated

h)		Datum		Name	
g)		Bearb.	03.12.13	Yusafzai	
f)		Gepr.	03.12.13	Logé	
e)		Norm			
d)		Kom.-N°:			
c)		 LTN Servotechnik GmbH			
b)					
a)					
Zust. Änderung					
<h1 style="color: blue;">Resolver</h1> <h2 style="color: blue;">RE-15-1-A84-06</h2>					
				Zeichnungs-N°: RE-15-1-A84-06 EDV-N°: 1093005-01	
				Maßstab 1:1 O-Format A4	
03.12.13					