

8000.00.113



for Hybrids, Motors and Nuclear application

- ➡ Compact and small
- ➡ max. speed 20'000 RPM
- ➡ max. temperature up to +155°C

Technical Data

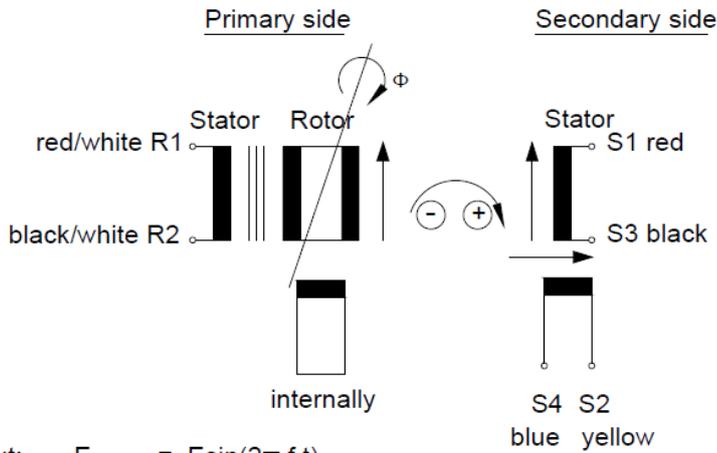
| | R1-R2 | R1-R2 | R1-R2 |
|---------------------------|-------------------|-------------------|-------------------|
| Primary side : | R1-R2 | R1-R2 | R1-R2 |
| Pole pairs p : | 1 | 1 | 1 |
| Transformation ratio TR : | 0.5 ±10% | 0.5 ±10% | 0.5 ±10% |
| Input voltage E : | 10 V rms | 7 V rms | 7 V rms |
| Input current : | typ. 99 mA | typ. 65 mA | typ. 41 mA |
| Input frequency f : | 4.5kHz | 5kHz | 10 kHz |
| Phase shift : | 16° ±3° | 13° ±3° | -2° ±3° |
| Max. null voltage : | 30mV | 30mV | 30 mV |
| Impedances : | | | |
| Zro : | typ. 65 +j 75 Ω | typ. 70 +j 85 Ω | typ. 95 +j 140 Ω |
| Zrs : | typ. 65 +j 65 Ω | typ. 65 +j 70 Ω | typ. 85 +j 130 Ω |
| Zso : | typ. 160 +j 180 Ω | typ. 165 +j 195 Ω | typ. 220 +j 345 Ω |
| Zss : | typ. 155 +j 155 Ω | typ. 160 +j 170 Ω | typ. 195 +j 310 Ω |

| | |
|---------------------------|----------------------------|
| DC resistance : | |
| Rotor : | 37 Ω ±10% at 20°C |
| Stator : | 102 Ω ±10% at 20°C |
| Accuracy : | ±10' |
| Accuracy ripple : | 1' max |
| Operating temperature : | -55°C ... +155°C |
| Max. permissible speed : | 20.000 rpm |
| Shock (11ms) : | <1000 m/sec ² |
| Vibration (55-2000Hz) : | <500 m/sec ² |
| Weight rotor : | 25g |
| Weight stator : | 60g |
| Rotor moment of inertia : | 0.02*10E-4kgm ² |
| High pot test voltage | |
| housing / winding : | 500VAC/50Hz/3sec. |
| winding / winding : | 250VAC/50Hz/3sec. |
| Rotor : | completely impregnated |
| Stator : | completely impregnated |

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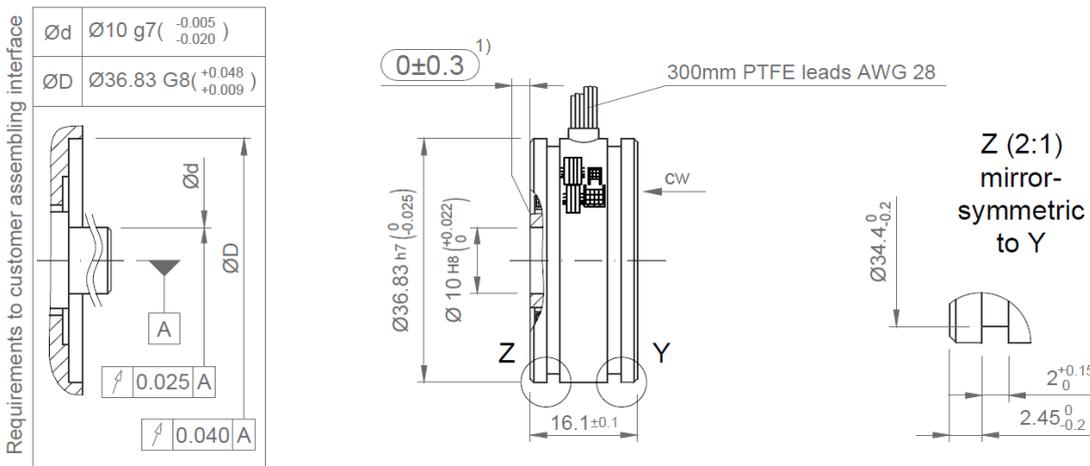
Electrical connection



Input: $E_{R1-R2} = E \sin(2\pi f t)$

Output: $E_{S1-S3} = TR * E_{R1-R2} \cos(p \Phi)$
 $E_{S2-S4} = TR * E_{R1-R2} \sin(p \Phi)$

Reference drawing in mm



Order Code

| | | |
|------------------------|--------------------------|------------------|
| RE15L-A64-10-10 | Standard solution | |
| Size | | 36 x 16.1mm |
| Bore | | 10mm |
| Leads length | | 300mm |
| Max. RPM | | 20'000 RPM |
| Temperature range | | -55°C ... +155°C |



Do you have any Questions ? Phone: +41 (0)44 843 40 20 or Mail: sales@micronor.ch