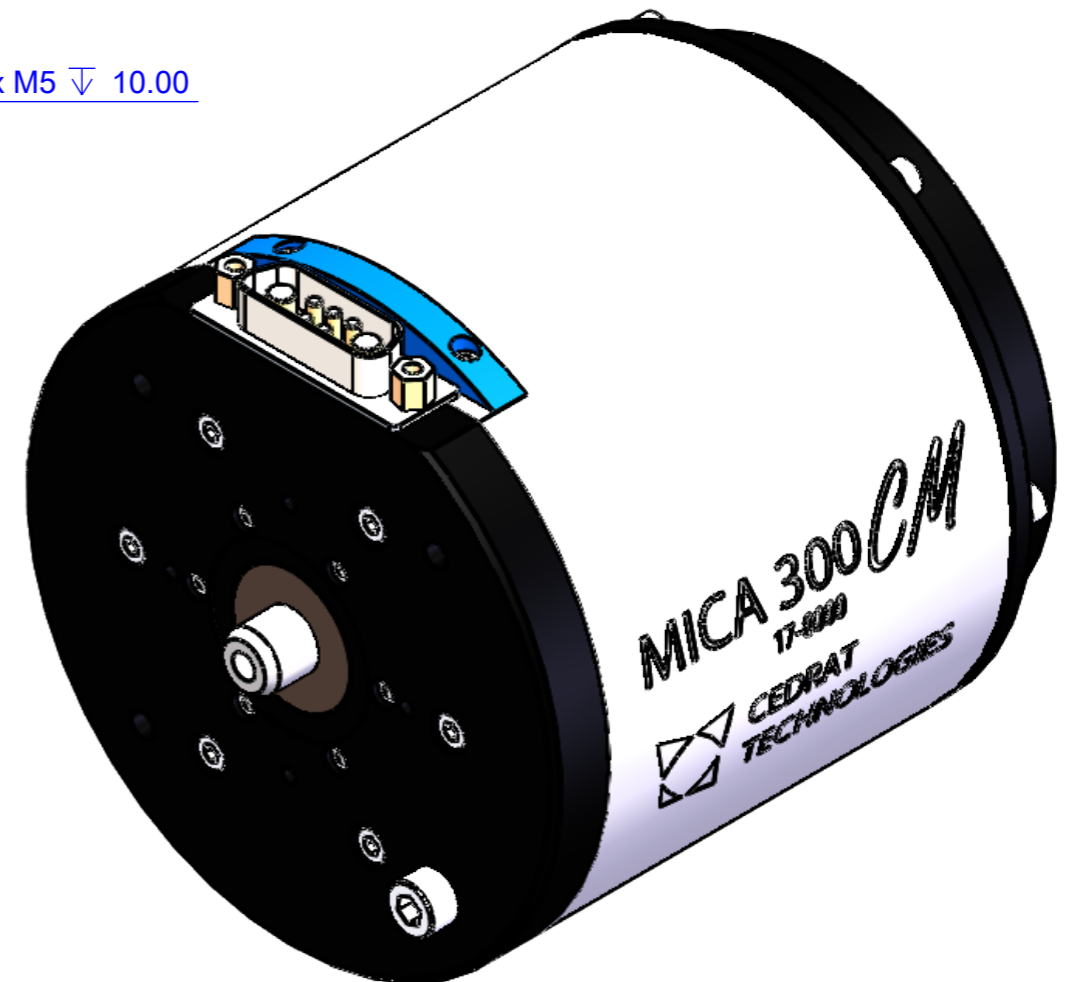


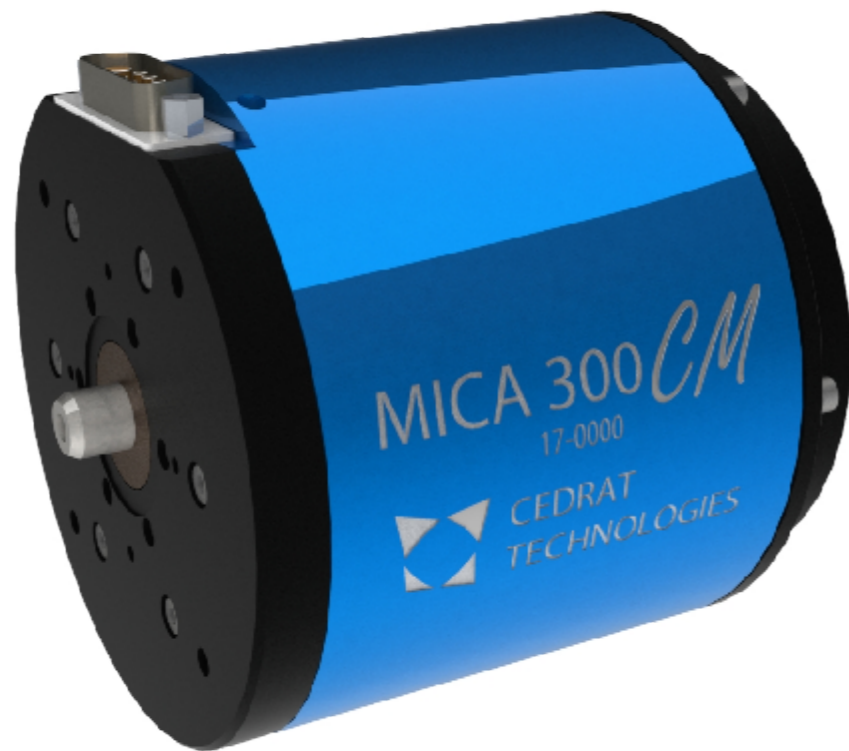
DÉTAIL A
ECHELLE 1 : 1

| 7W2 Pins | Ref | Signal Type | Comment |
|----------|---------|--------------------|---------------------|
| A1 | MICA - | Power | Coil Power Supply |
| A2 | MICA + | Power | Coil Power Supply |
| 1 | SAFETY | Low Power | Safety verification |
| 2 | | N.A. | |
| 3 | PT1000+ | Temperature signal | |
| 4 | Memory | 1 wire memory | |
| 5 | DGND | Digital Ground | |



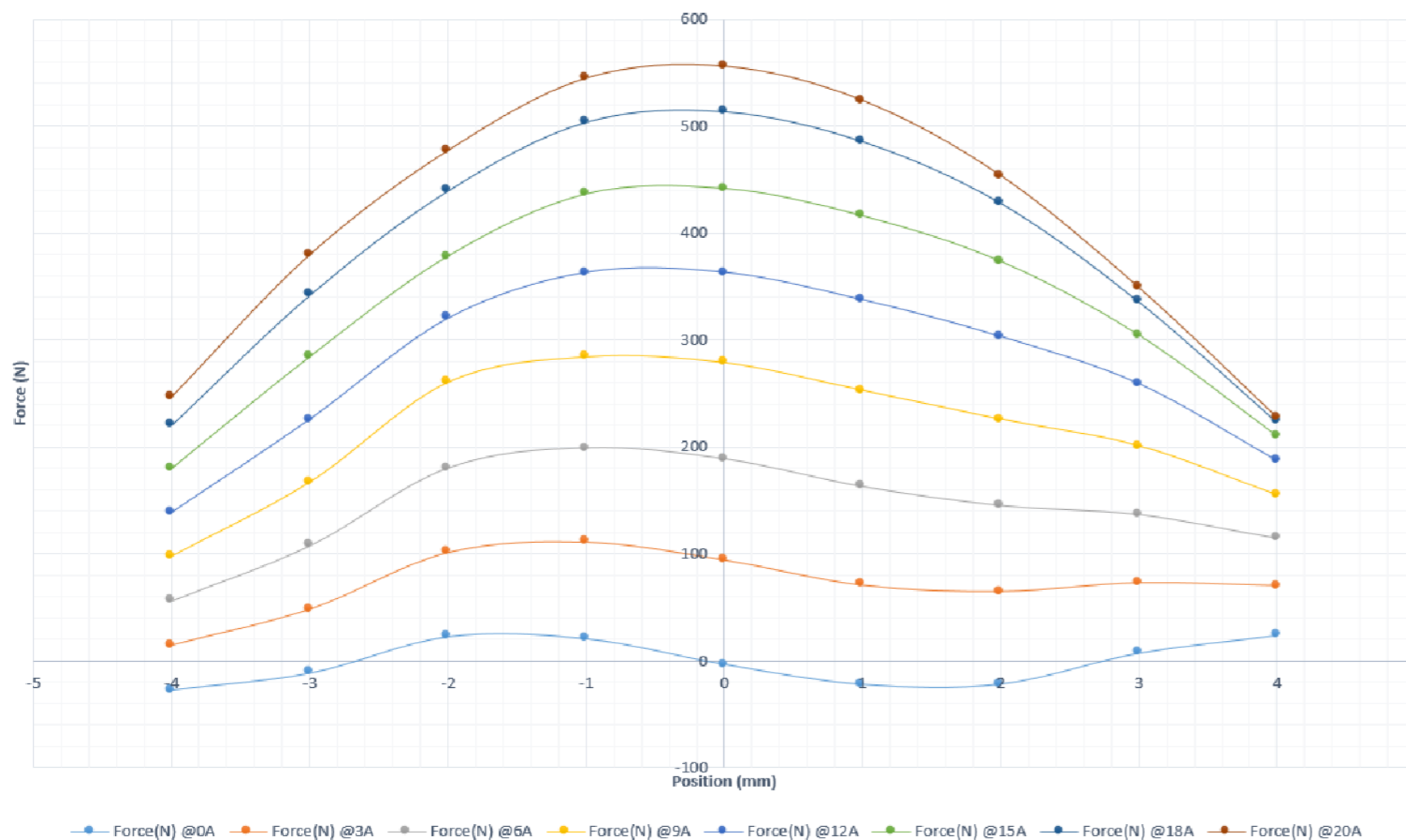
Electrical and Mechanical ICD

| Matière / Material | Norme Matière / Material Standard | Autre norme / Additional Standard |
|--|---|--|
| | | |
| Ref Traitement / Treatment ref. | Tolérances générales selon ISO2768-FH General tolerances according to ISO2768-FH Ra = 1.6 max Ebavurage/Deburring : chamf. 45° 0.1 to 0.2 Rayon Raccord/Radius Curvature : 0.1 to 0.4 Battement/Run Out : 0.1mm Symétrie/Symmetry:0.5mm | Nom de projet / Project Name 160914 - MICA300C |
| Ref. Traitement Surface / Surface Treatment ref. | | Désignation / Title ICD_Assy_MICA_300C |
| Dessiné par / Drawn by cbouchet | Obsolescence / Life Cycle R&D | Date 21/02/2017 |
| Vérifié par / Checked by fbourgain | Masse / Mass 3386.60 g | Format A3 Echelle/Scale 1:2 |
| Validé par / Approved by kbenoit | | Reference / Revision 015648 / A.01-FINAL Page 1/2 |

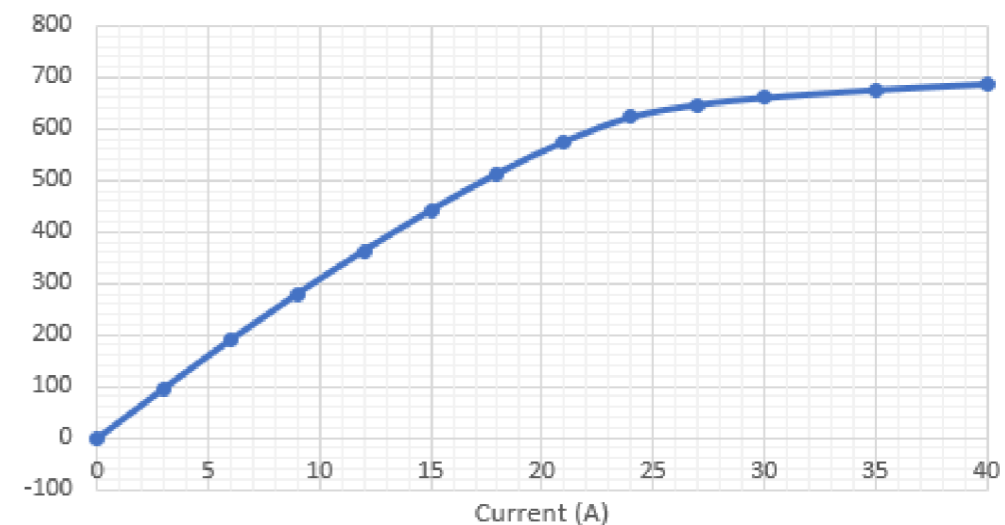


| Properties | Value | Unit | Tol | Symbol |
|--|-------|------------|---------|---------|
| DC Resistance | 0,41 | Ohms | +/- 10% | R |
| Voltage @ Fn | 72 | Volts | Nominal | Vp / Vn |
| Current @ Fn | 11 | Amps | Nominal | In |
| Current @ Fp | 30 | Amps | Nominal | Ip |
| Force Sensitivity | 27,3 | N/Amp | +/- 10% | Kf |
| Back EMF Constant | 32 | V.s.m-1 | +/- 10% | Kv |
| Inductance | 11 | mH | +/- 20% | L |
| Peak Force | 550 | N | | Fp |
| Continuous Force | 300 | N | | Fn |
| Actuator Constant @Fn | 38,7 | N/Watt.0.5 | | KA |
| Actuator Constant @Fp | 28,3 | N/Watt.0.5 | | Kb |
| Electrical Time Constant | 27 | ms | | te |
| Theoretical Acceleration | 99 | G | | α |
| Theoretical Velocity | 1,96 | m/s | | v |
| Max. Theoretical Frequency @ Full Stroke | 80 | Hz | | fmax |
| Power RI² @ Fn | 60 | Watts | | Pe |
| Power RI² @ Fp | 392 | Watts | | Pe |
| Stroke | 4 | +/- mm | | |
| Maximum Allowable Coil Winding Temp | 155 | °C | | Tcoil |
| Weight of Moving part | 580 | g | | Wm |
| Weight of Assembly | 3400 | g | | W |

Force (N) vs Current (A) vs Position (mm)



Force (N) @ Middle Position



Performances

| | | | | | |
|--|--|--|--|-----------------------------------|--|
| Matière / Material | | Norme Matière / Material Standard | | Autre norme / Additional Standard | |
| Ref Traitement / Treatment ref. | | Tolérances générales selon ISO2768-FH General tolerances according to ISO2768-FH | | Nom de projet / Project Name | |
| Ref. Traitement Surface / Surface Treatment ref. | | Ra = 1.6 max Ebavurage/Deburring : chamf. 45° 0.1 to 0.2 Rayon Raccord/Radius Curvature : 0.1 to 0.4 Battement/Run Out : 0.1mm Symétrie/Symmetry:0.5mm | | 160914 - MICA300C | |
| Dessiné par / Drawn by | | Obsolescence / Life Cycle | | Date | |
| cbouchet | | R&D | | 21/02/2017 | |
| Vérifié par / Checked by | | Masse / Mass | | Reference / Revision | |
| fbourgain | | g | | 015648 / A.01-FINAL | |
| Validé par / Approved by | | | | Page | |
| kbenoit | | | | 2/2 | |