

APPLICATIONS

- > Vibration control
- > Positioning
- > Gas compression

KEY FEATURES

- > Flexure bearing
- > Infinite lifetime

AVAILABLE OPTIONS

- > Proof-mass

AVAILABLE INTERFACES

- > Wire connector



NON CONTRACTUAL PICTURE

PARAMETER	TYPICAL VALUE	UNIT
> Electrical and mechanical performances		
Continuous force ⁽¹⁾	20	N
Peak force ⁽²⁾	40	N
Nominal current @ 1Hz	0.5	A
Nominal current @ 100Hz	0.7	A
Maximum current	1	A
Inductance	290	mH
DC resistance	18	Ohm
Maximum Stroke ⁽³⁾	3	mm
Moving mass	230	g
Resonance frequency ⁽⁴⁾	35	Hz
> Thermal performances		
Thermal Sensor included	No	
Thermal heat sinking at ambient air ⁽⁵⁾	21	°C/W
Thermal heat sinking under vacuum ⁽⁵⁾	45	°C/W
Max. allowable coil temperature ⁽⁶⁾	100	°C
Coil heating time constant	700	s
> Dimensions & mass		
Mass ⁽⁷⁾	540	g
Diameter	44	mm
Length	70	mm

ANNOTATIONS

Guaranteed in labs environment. A misused can lead to temporary or definitive alterations of properties. Contact CEDRAT TECHNOLOGIES prior using actuators under non standard technical conditions.

(1) Obtained at nominal current

(2) Obtained at maximum current

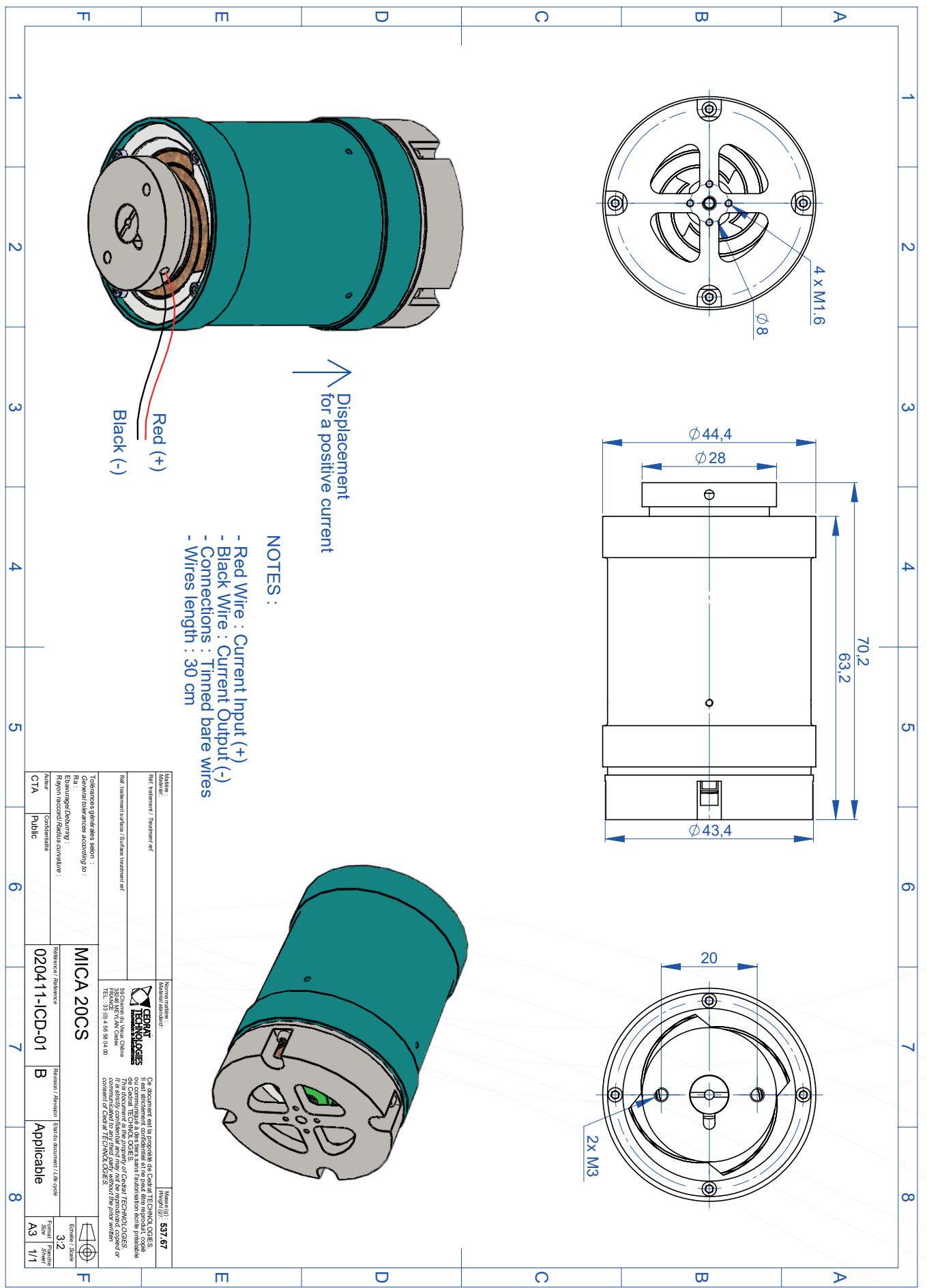
(3) Peak-peak value. Maximal allowed displacement under external on-axis force

(4) Blocked-free: The actuator is fixed to a mechanical support assumed infinitely stiff

(5) Heat Sinking thermal resistance between coil and mechanical interface temperature

(6) Maximum coil temperature allowed during continuous operation according to (5)

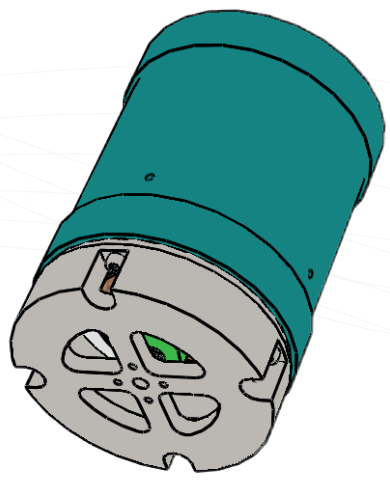
(7) Electrical wires excluded



Displacement
for a positive current

Red (+)
Black (-)

- NOTES :
- Red Wire : Current Input (+)
 - Black Wire : Current Output (-)
 - Connections : Tinned bare wires
 - Wires length : 30 cm



Matière : Net: stainless steel / Treatment: nif Ref: traitement standard / Surface treatment: nif		Norme machine : Cedrat Technologies 59 Chemin du Vieux Chêne 38246 MEYLAN Cedex TEL. : +33 (0)4 56 58 04 00		Masse (g) : 537.87	
Tolérances générales selon : General tolerances according to : Etendue/Déviage : Réglon rétrodiff / Révulsif courbure :		Ce document est la propriété de CEDRAT TECHNOLOGIES. Toute réimpression ou utilisation non autorisée sans la permission écrite de CEDRAT TECHNOLOGIES est formellement interdite. This document is the property of CEDRAT TECHNOLOGIES. It is strictly confidential and may not be reproduced, copied or conveyed to CEDRAT TECHNOLOGIES.		Référence / Référence : MICA 20CS	
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