

APPLICATIONS

- > Vibration control
- > Positioning
- > Gas compression

KEY FEATURES

- > Flexure bearing
- > Infinite lifetime

RELATED PRODUCTS

- > MCA μ 10

AVAILABLE OPTIONS

- > Proof-mass

AVAILABLE INTERFACES

- > Wire connector



NON CONTRACTUAL PICTURE

PARAMETER	TYPICAL VALUE	UNIT
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> 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

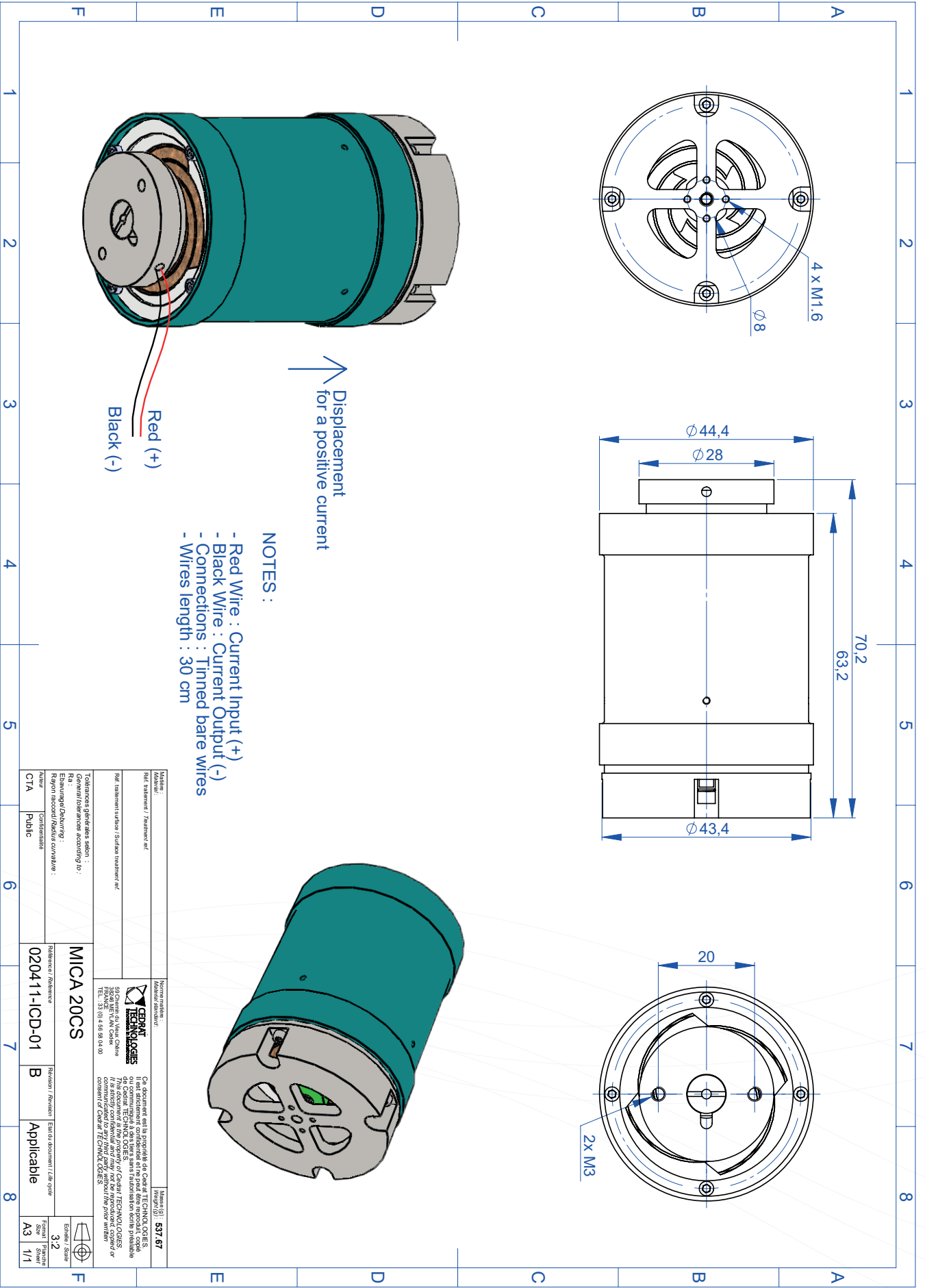
(3) Peak-peak value. Maximal allowed displacement under external on-axis force

(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



Red (+)
Black (-)

Displacement
for a positive current

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

Materiaux :		Normes relatives :	
Net: stainless steel / Treatment: nif		MICA20CS	
Ref: stainless steel / Surface treatment: nif		59 Chemin du Vieux Chêne 38246 MEYLAN Cedex TEL: +33 (0)4 56 58 04 00	
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