



# Certificate of Compliance

**Certificate:** 70009968

**Master Contract:** 256222

**Project:** 80110042

**Date Issued:** 2022-09-28

**Issued To:** Orange 1 Electric Motors S.p.a.  
Piazza della Repubblica 28  
., Milano, 20124  
Italy

**Attention:** Luca Zerbato

*The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.*

**Issued by:** Franklin ten Haaf  
Franklin ten Haaf



## **PRODUCTS**

CLASS - C421101 - MOTORS AND GENERATORS Motors and Generators

CLASS - C421181 - MOTORS AND GENERATORS Certified to US Standards

Inverters duty motor, component type, types MIX120 and MIX120A provided with a built-in adjustable speed drive module, rated: 1 ph, 100-120 V, 50/60Hz, and MIX230(A) provided with a built-in adjustable speed drive rated: 1ph, 200-240 V, 50/60Hz, to drive squirrel-cage induction motor mod.UO080I401306A, 3 phase, 1.1 KW max, 4 poles, ambient temperature 40 °C, TEFC, foot and/or flange mounted to enclosure with changeable position, insulation class F; frame size 80, refer to table below for complete electrical ratings.

## **Note:**

1. Intended for use as a component part in other equipment where the acceptability is determined by the CSA Group.
2. If DVC A control signals are accessible as part of the end equipment, they shall be installed within a ZONE OF EQUIPOTENTIAL BONDING per UL61800-5-1, 1<sup>st</sup> edition.



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Model	Adjustable speed drive (Mod.)	Duty cycle On/Off (Minutes)	Motor model	Input Voltage (V)	Input Frequency (Hz)	Point *(See note)	Input Current (A)	Output power (Kw)	RPM
MIX230 MIX230A	1018-6 1018-7	On :3 Minutes Off :7 Minutes	UO080I401306A	200	50	1	3.6	0.17	563
						2	5.2	0.44	1148
						3	11.1	1.12	2908
						4	3.4	-	5942
				200	60	1	3.2	0.18	564
						2	4.8	0.44	1149
						3	9.5	1.11	2910
						4	3	-	5932
				240	50	1	3.1	0.18	562
						2	4.7	0.44	1149
						3	9.9	1.14	2965
						4	3.6	-	5956
				240	60	1	2.7	0.18	563
						2	4.1	0.44	1147
						3	8.3	1.14	2960
						4	3.1	-	5946
MIX120 MIX120A	1007-6 1007-7	On :2 Minutes Off :8 Minutes		100	50	1	6.3	0.17	551
						2	9.5	0.43	1121
						3	20.0	1.1	2851
						4	5.2	-	5939
				100	60	1	6.0	0.17	550
						2	8.9	0.43	1120
						3	19.7	1.07	2809
						4	5.0	-	5933
				120	50	1	5.2	0.17	549
						2	7.9	0.43	1119
						3	17.3	1.11	2890
						4	4.9	-	5953
				120	60	1	5.0	0.17	549
						2	7.7	0.43	1118
						3	16.7	1.1	2884
						4	4.7	-	5951
*Note: Point 1 – Torque at minimum declare speed Point 2 – Lowest speed of the constant torque range Point 3 – Highest speed of the constant torque range Point 4 – Maximum declared speed based on constant horsepower and any mechanical limitation on rotational speed									



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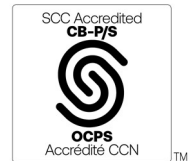
**APPLICABLE REQUIREMENTS**

CSA 22.2 No.100-14	Motors and Generators
CSA 22.2 No.274-17	Adjustable Speed Drivers
UL 1004-1(2nd edition)	Rotating Electrical Machines – General Requirements
UL 1004-8 (2nd edition)	Inverter Duty Motors
UL61800-5-1, 1st edition	Adjustable Speed Electrical Power Drive Systems – Part 5-1: Safety Requirements – Electrical, Thermal and Energy

**Notes:**

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Products certified under Class C421101 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). [www.scc.ca](http://www.scc.ca)





## Supplement to Certificate of Compliance

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*The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.*

### Product Certification History

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Project	Date	Description
80110042	2022-09-28	Update to Report 70009968 to update applicable requirement from UL 508C 3rd Ed. to UL 61800-5-1 1st Ed., CSA C22.2 No. 274-13 to CSA C22.2 No. 274-17 and also to update the following constructions: MIX120: replacement of Switching Regulator, Transformer and Microcontroller; new PCB layout MIX230: replacement of Switching Regulator, Transformer and Microcontroller; new PCB layout; new alternative for Power Relay. MIX120A: new PCB layout MIX230A: new PCB layout
70009968	2015-12-10	Original Certification of Inverters duty motor, component type, types MIX120 provided with a built-in adjustable speed drive mod.1007-1, 1 ph, 100-120 V , 50/60Hz ,duty cycle 2 minutes ON time, 8 minutes OFF time, and MIX230 provided with a built-in adjustable speed drive mod.1018-1 , 1ph, 200-240 V, 50/60Hz , duty cycle 3 minutes ON time, 7 minutes OFF time, to drive squirrel-cage induction motor mod.UO080I401306A, 3 phases, 1.1 KW max, 50/100 Hz, 4 poles, ambient temperature 40 °C,TEFC , foot and/or flange mounted to enclosure with changeable position, insulation class F; frame size 80, refer to table below for complete electrical ratings