



LVD TEST REPORT

For

JASM SERIES AC SERVO MOTOR

Model Number: See page 4



Prepared for : SHENZHEN JUST MOTION CONTROL ELECTROMECHANICS CO.,LTD.

Building B, Jiayu Science Park, Jin'an Road, Matian Street,
Guangming District, Shenzhen China.

Prepared By : Guangdong Lintek Certification Group Co., Ltd.

Room 318, No.116-2, Guanlan Road, Fucheng Street, Longhua
District, Shenzhen, Guangdong, China

Report Number : LTR24052271S02

Date of Receipt : May 07, 2024

Date of Test : May 07, 2024 to May 30, 2024

Date of Report : May 30, 2024



CERTIFICATION

APPLICANT	:	SHENZHEN JUST MOTION CONTROL ELECTROMECHANICS CO.,LTD.
ADDRESS	:	Building B, Jiayu Science Park, Jin'an Road, Matian Street, Guangming District, Shenzhen China.
MANUFACTURER:		SHENZHEN JUST MOTION CONTROL ELECTROMECHANICS CO.,LTD.
ADDRESS	:	Building B, Jiayu Science Park, Jin'an Road, Matian Street, Guangming District, Shenzhen China.
FACTORY	:	SHENZHEN JUST MOTION CONTROL ELECTROMECHANICS CO.,LTD.
ADDRESS	:	Building B, Jiayu Science Park, Jin'an Road, Matian Street, Guangming District, Shenzhen China.
PRODUCT	:	JASM SERIES AC SERVO MOTOR
TRADEMARK	:	 杰美康机电 JIA MEI KANG JIAN DIAO
MODEL(S)	:	See page 4

Test Standards

EN IEC 60034-5:2020

Rotating electrical machines - Part 5: Degrees of protection provided by the integral design of rotating electrical machines (IP code) - Classification

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The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the laboratory.

Tested by :



Date : May 30, 2024

Checked by :



Date : May 30, 2024

Approved by :



Date : May 30, 2024

(Maarten Hou)



EN IEC 60034-5:2020 Rotating electrical machines - Part 5: Degrees of protection provided by the integral design of rotating electrical machines (IP code) - Classification	
Testing laboratory-----	Guangdong Lintek Certification Group Co., Ltd.
Address-----	Room 318, No.116-2, Guanlan Road, Fucheng Street, Longhua District, Shenzhen, Guangdong, China
Testing location-----	Guangdong Lintek Certification Group Co., Ltd.
Applicant-----	SHENZHEN JUST MOTION CONTROL ELECTROMECHANICS CO.,LTD.
Address -----	Building B, Jiayu Science Park, Jin'an Road, Matian Street, Guangming District, Shenzhen China.
Standard -----	EN IEC 60034-5:2020
Test result -----	Compliance with the standard requirement.
Procedure deviation-----	N.A
Non-standard test method ---	N.A.
Type of test object -----	JASM SERIES AC SERVO MOTOR
Trademark -----	 杰美康机电 JUST MOTION CONTROL
Models/Type reference -----	See page 1
Rating -----	See page 5
Factory -----	SHENZHEN JUST MOTION CONTROL ELECTROMECHANICS CO.,LTD.
Address -----	Building B, Jiayu Science Park, Jin'an Road, Matian Street, Guangming District, Shenzhen China.
Test item particulars: Operation condition -----: Continuous Class of equipment -----: Class I	

**Possible test case verdicts:**

Test case does not apply to the object-----:N

Test object does meet the requirement -----: P

Test object does not meet the requirement-----: F

General remarks:

1.“ (see remark #) ”refers to a remark appended to the report.

2.Throughout this report a point is used as the decimal separator.

3.The test results presented in this report relate only to the object tested.

Model different see below. The model 130JASM530220K-17BCW was selected to be tested

Model Lists												
Motor Model	Voltage (V)	Power (W)	Holding Torque (N·M)	Max. Torque (N·M)	Current (A)	Max. Current (A)	Speed (RPM)	Max. Speed (RPM)	thermal class	Duty type (S)	Engine base size (mm)	Weight (kg)
40JASM501230K-17BCY	230V ~ 50/60 Hz	100	0.32	0.96	1	3	3000	6000	B	S1	40	0.75
40JASM501230K-M17BCY	230V ~ 50/60 Hz	100	0.32	0.96	1	3	3000	6000	B	S1	40	0.75
40JASM501230K-17BCY-SC	230V ~ 50/60 Hz	100	0.32	0.96	1	3	3000	6000	B	S1	40	0.85
40JASM501230K-M17BCY-SC	230V ~ 50/60 Hz	100	0.32	0.96	1	3	3000	6000	B	S1	40	0.85
40JASM501230K-17BCY-P	230V ~ 50/60 Hz	100	0.32	0.96	1	3	3000	6000	B	S1	40	0.75
40JASM501230K-	230V ~ 50/60 Hz	100	0.32	0.96	1	3	3000	6000	B	S1	40	0.75



M17B CY-P													
40JA SM50 1230 K- 17BC Y-P- SC	230V ~ 50/60 Hz	100	0.32	0.96	1	3	3000	6000	B	S1	40	0.85	
40JA SM50 1230 K- M17B CY-P- SC	230V ~ 50/60 Hz	100	0.32	0.96	1	3	3000	6000	B	S1	40	0.85	
40JA SM50 1230 K- M23B Q	230V ~ 50/60 Hz	100	0.32	0.96	0.8	2.4	3000	6000	B	S1	40	0.75	
40JA SM50 1230 K- M17B CQ	230V ~ 50/60 Hz	100	0.32	0.96	0.8	2.4	3000	6000	B	S1	40	0.75	
40JA SM50 1230 K- M17B CQ- SC	230V ~ 50/60 Hz	100	0.32	0.96	0.8	2.4	3000	6000	B	S1	40	0.85	
40JA SM50 1230 K- 17BC Q	230V ~ 50/60 Hz	100	0.32	0.96	0.8	2.4	3000	6000	B	S1	40	0.75	
40JA SM50 1230 K- 17BC Q-SC	230V ~ 50/60 Hz	100	0.32	0.96	0.8	2.4	3000	6000	B	S1	40	0.85	
40JA SM50 1230 K- M23B Q-SC	230V ~ 50/60 Hz	100	0.32	0.96	0.8	2.4	3000	6000	B	S1	40	0.85	
60JA SM50 2230 K- 17BC	230V ~ 50/60 Hz	200	0.64	1.92	1.1	3.3	3000	6000	B	S1	60	1	



Z												
60JA SM50 2230 K- M17B CZ	230V ~ 50/60 Hz	200	0.64	1.92	1.1	3.3	3000	6000	B	S1	60	1
60JA SM50 2230 K- 17BC Z-SC	230V ~ 50/60 Hz	200	0.64	1.92	1.1	3.3	3000	6000	B	S1	60	1.4
60JA SM50 2230 K- M17B CZ- SC	230V ~ 50/60 Hz	200	0.64	1.92	1.1	3.3	3000	6000	B	S1	60	1.4
60JA SM50 2230 K- 17BC Q	230V ~ 50/60 Hz	200	0.64	1.92	1.1	3.3	3000	6000	B	S1	60	1
60JA SM50 2230 K- M17B CQ- SC	230V ~ 50/60 Hz	200	0.64	1.92	1.1	3.3	3000	6000	B	S1	60	1.4
60JA SM50 2230 K- 17BC Q-SC	230V ~ 50/60 Hz	200	0.64	1.92	1.1	3.3	3000	6000	B	S1	60	1.4
60JA SM50 2230 K- M17B CQ	230V ~ 50/60 Hz	200	0.64	1.92	1.1	3.3	3000	6000	B	S1	60	1
60JA SM50 4230 K- 17BC Z	230V ~ 50/60 Hz	400	1.27	3.81	2.6	7.8	3000	6000	B	S1	60	1.45
60JA SM50 4230 K- M17B CZ	230V ~ 50/60 Hz	400	1.27	3.81	2.6	7.8	3000	6000	B	S1	60	1.45
60JA	230V	400	1.27	3.81	2.6	7.8	3000	6000	B	S1	60	1.9



SM50 4230 K- 17BC Z-SC	~ 50/60 Hz												
60JA SM50 4230 K- M17B CZ- SC	230V ~ 50/60 Hz	400	1.27	3.81	2.6	7.8	3000	6000	B	S1	60	1.9	
60JA SM50 4230 K- 17BC Q	230V ~ 50/60 Hz	400	1.27	3.81	2.6	7.8	3000	6000	B	S1	60	1.45	
60JA SM50 4230 K- M17B CQ- SC	230V ~ 50/60 Hz	400	1.27	3.81	2.6	7.8	3000	6000	B	S1	60	1.9	
60JA SM50 4230 K- 17BC Q-SC	230V ~ 50/60 Hz	400	1.27	3.81	2.6	7.8	3000	6000	B	S1	60	1.9	
60JA SM50 4230 K- M17B CQ	230V ~ 50/60 Hz	400	1.27	3.81	2.6	7.8	3000	6000	B	S1	60	1.45	
60JA SM50 6230 K- 17BC Z	230V ~ 50/60 Hz	600	1.91	5.73	4.0	12.0	3000	6000	B	S1	60	2.1	
60JA SM50 6230 K- M17B CZ	230V ~ 50/60 Hz	600	1.91	5.73	4.0	12.0	3000	6000	B	S1	60	2.1	
60JA SM50 6230 K- 17BC Z-SC	230V ~ 50/60 Hz	600	1.91	5.73	4.0	12.0	3000	6000	B	S1	60	2.7	
60JA SM50 6230	230V ~ 50/60	600	1.91	5.73	4.0	12.0	3000	6000	B	S1	60	2.7	



K-M17B CZ-SC	Hz											
60JA SM50 2230 K- 17BC Z-P	230V ~ 50/60 Hz	200	0.64	1.92	1.1	3.3	3000	6000	B	S1	60	1
60JA SM50 2230 K- M17B CZ-P	230V ~ 50/60 Hz	200	0.64	1.92	1.1	3.3	3000	6000	B	S1	60	1
60JA SM50 2230 K- 17BC Z-P- SC	230V ~ 50/60 Hz	200	0.64	1.92	1.1	3.3	3000	6000	B	S1	60	1.4
60JA SM50 2230 K- M17B CZ-P- SC	230V ~ 50/60 Hz	200	0.64	1.92	1.1	3.3	3000	6000	B	S1	60	1.4
60JA SM50 4230 K- 17BC Z-P	230V ~ 50/60 Hz	400	1.27	3.81	2.6	7.8	3000	6000	B	S1	60	1.45
60JA SM50 4230 K- M17B CZ-P	230V ~ 50/60 Hz	400	1.27	3.81	2.6	7.8	3000	6000	B	S1	60	1.45
60JA SM50 4230 K- 17BC Z-P- SC	230V ~ 50/60 Hz	400	1.27	3.81	2.6	7.8	3000	6000	B	S1	60	1.9
60JA SM50 4230 K- M17B CZ-P- SC	230V ~ 50/60 Hz	400	1.27	3.81	2.6	7.8	3000	6000	B	S1	60	1.9
60JA SM50	230V ~	600	1.91	5.73	4.0	12.0	3000	6000	B	S1	60	2.1



6230 K- 17BC Z-P	50/60 Hz												
60JA SM50 6230 K- M17B CZ-P	230V ~ 50/60 Hz	600	1.91	5.73	4.0	12.0	3000	6000	B	S1	60	2.1	
60JA SM50 6230 K- 17BC Z-P- SC	230V ~ 50/60 Hz	600	1.91	5.73	4.0	12.0	3000	6000	B	S1	60	2.7	
60JA SM50 6230 K- M17B CZ-P- SC	230V ~ 50/60 Hz	600	1.91	5.73	4.0	12.0	3000	6000	B	S1	60	2.7	
60JA SM50 2230 K- M23B -T	230V ~ 50/60 Hz	200	0.64	1.92	1.1	3.3	3000	6000	B	S1	60	1.6	
60JA SM50 2230 K- M23B -T-SC	230V ~ 50/60 Hz	200	0.64	1.92	1.1	3.3	3000	6000	B	S1	60	2.1	
60JA SM50 4230 K- M23B -T	230V ~ 50/60 Hz	400	1.27	3.81	2.8	8.4	3000	6000	B	S1	60	2.07	
60JA SM50 4230 K- M23B -T-SC	230V ~ 50/60 Hz	400	1.27	3.81	2.8	8.4	3000	6000	B	S1	60	2.6	
60JA SM50 4230 K- M23B Z	230V ~ 50/60 Hz	400	1.27	3.81	2.8	8.4	3000	6000	B	S1	60	2.07	
80JA SM50 7230 K-	230V ~ 50/60 Hz	750	2.39	7.17	4.5	13.5	3000	6000	B	S1	80	2.6	



M17B CQ												
80JA SM50 7230 K- 17BC Q-SC	230V ~ 50/60 Hz	750	2.39	7.17	4.5	13.5	3000	6000	B	S1	80	3.2
80JA SM50 7230 K- 17BC Q	230V ~ 50/60 Hz	750	2.39	7.17	4.5	13.5	3000	6000	B	S1	80	2.6
80JA SM50 7230 K- M17B CQ- SC	230V ~ 50/60 Hz	750	2.39	7.17	4.5	13.5	3000	6000	B	S1	80	3.2
80JA SM50 7230 K- 17BC Z	230V ~ 50/60 Hz	750	2.39	7.17	4.5	13.5	3000	6000	B	S1	80	2.6
80JA SM50 7230 K- M17B CZ	230V ~ 50/60 Hz	750	2.39	7.17	4.5	13.5	3000	6000	B	S1	80	2.6
80JA SM50 7230 K- 17BC Z-SC	230V ~ 50/60 Hz	750	2.39	7.17	4.5	13.5	3000	6000	B	S1	80	3.2
80JA SM50 7230 K- M17B CZ- SC	230V ~ 50/60 Hz	750	2.39	7.17	4.5	13.5	3000	6000	B	S1	80	3.2
80JA SM50 7230 K- 17BC Z-P	230V ~ 50/60 Hz	750	2.39	7.17	4.5	13.5	3000	6000	B	S1	80	2.6
80JA SM50 7230 K- M17B CZ-P	230V ~ 50/60 Hz	750	2.39	7.17	4.5	13.5	3000	6000	B	S1	80	2.6



80JA SM50 7230 K- 17BC Z-P- SC	230V ~ 50/60 Hz	750	2.39	7.17	4.5	13.5	3000	6000	B	S1	80	3.2
80JA SM50 7230 K- M17B CZ-P- SC	230V ~ 50/60 Hz	750	2.39	7.17	4.5	13.5	3000	6000	B	S1	80	3.2
80JA SM50 7230 K- M23B -T	230V ~ 50/60 Hz	750	2.39	7.17	4.2	12.6	3000	6000	B	S1	80	3.4
80JA SM50 7230 K- M23B -T-SC	230V ~ 50/60 Hz	750	2.39	7.17	4.2	12.6	3000	6000	B	S1	80	3.7
80JA SM50 7230 K- M23B Z	230V ~ 50/60 Hz	750	2.39	7.17	4.2	12.6	3000	6000	B	S1	80	3.4
80JA SM51 0230 K- M23B -T	230V ~ 50/60 Hz	1000	3.18	9.54	5.15	15.45	3000	6000	B	S1	80	4
80JA SM51 0230 K- M23B -T-SC	230V ~ 50/60 Hz	1000	3.18	9.54	5.15	15.45	3000	6000	B	S1	80	4.5
80JA SM51 0230 K- 17BC Z-P	230V ~ 50/60 Hz	1000	3.18	11.43	4.8	14.4	3000	6000	B	S1	80	2.8
80JA SM51 0230 K- M17B CZ-P	230V ~ 50/60 Hz	1000	3.18	11.43	4.8	14.4	3000	6000	B	S1	80	2.8
80JA SM51	230V ~	1000	3.18	11.43	4.8	14.4	3000	6000	B	S1	80	3.6



0230 K- 17BC Z-P- SC	50/60 Hz												
80JA SM51 0230 K- M17B CZ-P- SC	230V ~ 50/60 Hz	1000	3.18	11.43	4.8	14.4	3000	6000	B	S1	80	3.6	
80JA SM51 0230 K- 17BC Q	230V ~ 50/60 Hz	1000	3.18	11.43	4.8	14.4	3000	6000	B	S1	80	2.8	
80JA SM51 0230 K- M17B CQ- SC	230V ~ 50/60 Hz	1000	3.18	11.43	4.8	14.4	3000	6000	B	S1	80	3.6	
80JA SM51 0230 K- M17B CQ	230V ~ 50/60 Hz	1000	3.18	11.43	4.8	14.4	3000	6000	B	S1	80	2.8	
80JA SM51 0230 K- 17BC Q-SC	230V ~ 50/60 Hz	1000	3.18	11.43	4.8	14.4	3000	6000	B	S1	80	3.6	
80JA SM51 0230 K- 17BC Z	230V ~ 50/60 Hz	1000	3.18	11.43	4.8	14.4	3000	6000	B	S1	80	2.8	
80JA SM51 0230 K- M17B CZ	230V ~ 50/60 Hz	1000	3.18	11.43	4.8	14.4	3000	6000	B	S1	80	2.8	
80JA SM51 0230 K- 17BC Z-SC	230V ~ 50/60 Hz	1000	3.18	11.43	4.8	14.4	3000	6000	B	S1	80	3.6	
80JA SM51 0230	230V ~ 50/60	1000	3.18	11.43	4.8	14.4	3000	6000	B	S1	80	3.6	



K- M17B CZ- SC	Hz											
110J ASM1 2230 K- 17BC W	230V ~ 50/60 Hz	1200	4	12	5	15	3000	6000	B	S1	110	3.6
110J ASM1 2230 K- M17B CW	230V ~ 50/60 Hz	1200	4	12	5	15	3000	6000	B	S1	110	3.6
110J ASM1 2230 K- 17BC W-SC	230V ~ 50/60 Hz	1200	4	12	5	15	3000	6000	B	S1	110	4.8
110J ASM1 2230 K- M17B CW- SC	230V ~ 50/60 Hz	1200	4	12	5	15	3000	6000	B	S1	110	4.8
110J ASM1 5230 K- 17BC W	230V ~ 50/60 Hz	1500	5	15	6	18	3000	6000	B	S1	110	3.8
110J ASM1 5230 K- M17B CW	230V ~ 50/60 Hz	1500	5	15	6	18	3000	6000	B	S1	110	3.8
110J ASM1 5230 K- 17BC W-SC	230V ~ 50/60 Hz	1500	5	15	6	18	3000	6000	B	S1	110	5
110J ASM1 5230 K- M17B CW- SC	230V ~ 50/60 Hz	1500	5	15	6	18	3000	6000	B	S1	110	5
110J ASM5 13230 K-	230V ~ 50/60 Hz	1300	4.2	12.6	6.5	19.5	3000	6000	B	S1	110	6



M23B -T												
110J ASM5 13230 K- M23B -T-SC	230V ~ 50/60 Hz	1300	4.2	12.6	6.5	19.5	3000	6000	B	S1	110	7.6
110J ASM5 16220 K- M23B -T	230V ~ 50/60 Hz	1600	7.5	22.5	8	24	2000	4000	B	S1	110	7.85
110J ASM5 16220 K- M23B -T-SC	230V ~ 50/60 Hz	1600	7.5	22.5	8	24	2000	4000	B	S1	110	9.3
130J ASM5 15215 K- 17BC W	230V ~ 50/60 Hz	1500	9.55	19.1	6.2	18.6	1500	2500	B	S1	130	7.5
130J ASM5 15215 K- M17B CW	230V ~ 50/60 Hz	1500	9.55	19.1	6.2	18.6	1500	2500	B	S1	130	7.5
130J ASM5 15215 K- 17BC W-SC	230V ~ 50/60 Hz	1500	9.55	19.1	6.2	18.6	1500	2500	B	S1	130	9.2
130J ASM5 15215 K- M17B CW- SC	230V ~ 50/60 Hz	1500	9.55	19.1	6.2	18.6	1500	2500	B	S1	130	9.2
130J ASM5 15215 K- 17BC WH	230V ~ 50/60 Hz	1500	9.55	19.1	6.2	18.6	1500	2500	B	S1	130	7.5
130J ASM5 15215 K- M17B CWH	230V ~ 50/60 Hz	1500	9.55	19.1	6.2	18.6	1500	2500	B	S1	130	7.5
130J	230V	1500	9.55	19.1	6.2	18.6	1500	2500	B	S1	130	9.2



ASM5 15215 K- 17BC WH- SC	~ 50/60 Hz											
130J ASM5 15215 K- M17B CWH- SC	230V ~ 50/60 Hz	1500	9.55	19.1	6.2	18.6	1500	2500	B	S1	130	9.2
130J ASM5 15215 K- 17BC T	230V ~ 50/60 Hz	1500	9.55	19.1	6.2	18.6	1500	2500	B	S1	130	7.5
130J ASM5 15215 K- M17B CT	230V ~ 50/60 Hz	1500	9.55	19.1	6.2	18.6	1500	2500	B	S1	130	7.5
130J ASM5 15215 K- 17BC T-SC	230V ~ 50/60 Hz	1500	9.55	19.1	6.2	18.6	1500	2500	B	S1	130	9.2
130J ASM5 15215 K- M17B CT- SC	230V ~ 50/60 Hz	1500	9.55	19.1	6.2	18.6	1500	2500	B	S1	130	9.2
130J ASM5 15220 K- 17BC W	230V ~ 50/60 Hz	1500	7.16	14.32	7.8	23.4	2000	2500	B	S1	130	6.4
130J ASM5 15220 K- M17B CW	230V ~ 50/60 Hz	1500	7.16	14.32	7.8	23.4	2000	2500	B	S1	130	6.4
130J ASM5 15220 K- 17BC W-SC	230V ~ 50/60 Hz	1500	7.16	14.32	7.8	23.4	2000	2500	B	S1	130	8.1
130J ASM5	230V ~	1500	7.16	14.32	7.8	23.4	2000	2500	B	S1	130	8.1



15220 K- M17B CW- SC	50/60 Hz												
130J ASM5 15220 K- 17BC WH	230V ~ 50/60 Hz	1500	7.16	14.32	7.8	23.4	2000	2500	B	S1	130	6.4	
130J ASM5 15220 K- M17B CWH	230V ~ 50/60 Hz	1500	7.16	14.32	7.8	23.4	2000	2500	B	S1	130	6.4	
130J ASM5 15220 K- 17BC WH- SC	230V ~ 50/60 Hz	1500	7.16	14.32	7.8	23.4	2000	2500	B	S1	130	8.1	
130J ASM5 15220 K- M17B CWH- SC	230V ~ 50/60 Hz	1500	7.16	14.32	7.8	23.4	2000	2500	B	S1	130	8.1	
130J ASM5 15220 K- 17BC T	230V ~ 50/60 Hz	1500	7.16	14.32	7.8	23.4	2000	2500	B	S1	130	6.4	
130J ASM5 15220 K- M17B CT	230V ~ 50/60 Hz	1500	7.16	14.32	7.8	23.4	2000	2500	B	S1	130	6.4	
130J ASM5 15220 K- 17BC T-SC	230V ~ 50/60 Hz	1500	7.16	14.32	7.8	23.4	2000	2500	B	S1	130	8.1	
130J ASM5 15220 K- M17B CT- SC	230V ~ 50/60 Hz	1500	7.16	14.32	7.8	23.4	2000	2500	B	S1	130	8.1	
130J ASM5	230V ~	1500	4.77	9.54	5.8	17.4	3000	6000	B	S1	130	5	



15230 K- 17BC W	50/60 Hz											
130J ASM5 15230 K- M17B CW	230V ~ 50/60 Hz	1500	4.77	9.54	5.8	17.4	3000	6000	B	S1	130	5
130J ASM5 15230 K- 17BC W-SC	230V ~ 50/60 Hz	1500	4.77	9.54	5.8	17.4	3000	6000	B	S1	130	6.6
130J ASM5 15230 K- M17B CW- SC	230V ~ 50/60 Hz	1500	4.77	9.54	5.8	17.4	3000	6000	B	S1	130	6.6
130J ASM5 15230 K- 17BC WH	230V ~ 50/60 Hz	1500	4.77	9.54	5.8	17.4	3000	6000	B	S1	130	5
130J ASM5 15230 K- M17B CWH	230V ~ 50/60 Hz	1500	4.77	9.54	5.8	17.4	3000	6000	B	S1	130	5
130J ASM5 15230 K- 17BC WH- SC	230V ~ 50/60 Hz	1500	4.77	9.54	5.8	17.4	3000	6000	B	S1	130	6.6
130J ASM5 15230 K- M17B CWH- SC	230V ~ 50/60 Hz	1500	4.77	9.54	5.8	17.4	3000	6000	B	S1	130	6.6
130J ASM5 15230 K- 17BC T	230V ~ 50/60 Hz	1500	4.77	9.54	5.8	17.4	3000	6000	B	S1	130	5
130J ASM5 15230	230V ~ 50/60	1500	4.77	9.54	5.8	17.4	3000	6000	B	S1	130	5



K- M17B CT	Hz												
130J ASM5 15230 K- 17BC T-SC	230V ~ 50/60 Hz	1500	4.77	9.54	5.8	17.4	3000	6000	B	S1	130	6.6	
130J ASM5 15230 K- M17B CT- SC	230V ~ 50/60 Hz	1500	4.77	9.54	5.8	17.4	3000	6000	B	S1	130	6.6	
130J ASM5 15240 K- 17BC W	230V ~ 50/60 Hz	1500	3.6	7.2	6.5	19.5	4000	6000	B	S1	130	4.8	
130J ASM5 15240 K- M17B CW	230V ~ 50/60 Hz	1500	3.6	7.2	6.5	19.5	4000	6000	B	S1	130	4.8	
130J ASM5 15240 K- 17BC W-SC	230V ~ 50/60 Hz	1500	3.6	7.2	6.5	19.5	4000	6000	B	S1	130	6.4	
130J ASM5 15240 K- M17B CW- SC	230V ~ 50/60 Hz	1500	3.6	7.2	6.5	19.5	4000	6000	B	S1	130	6.4	
130J ASM5 15240 K- 17BC WH	230V ~ 50/60 Hz	1500	3.6	7.2	6.5	19.5	4000	6000	B	S1	130	4.8	
130J ASM5 15240 K- M17B CWH	230V ~ 50/60 Hz	1500	3.6	7.2	6.5	19.5	4000	6000	B	S1	130	4.8	
130J ASM5 15240 K- 17BC	230V ~ 50/60 Hz	1500	3.6	7.2	6.5	19.5	4000	6000	B	S1	130	6.4	



WH-SC												
130J ASM5 15240 K- M17B CWH- SC	230V ~ 50/60 Hz	1500	3.6	7.2	6.5	19.5	4000	6000	B	S1	130	6.4
130J ASM5 15240 K- 17BC T	230V ~ 50/60 Hz	1500	3.6	7.2	6.5	19.5	4000	6000	B	S1	130	4.8
130J ASM5 15240 K- M17B CT	230V ~ 50/60 Hz	1500	3.6	7.2	6.5	19.5	4000	6000	B	S1	130	4.8
130J ASM5 15240 K- 17BC T-SC	230V ~ 50/60 Hz	1500	3.6	7.2	6.5	19.5	4000	6000	B	S1	130	6.4
130J ASM5 15240 K- M17B CT- SC	230V ~ 50/60 Hz	1500	3.6	7.2	6.5	19.5	4000	6000	B	S1	130	6.4
130J ASM5 20220 K- 17BC W	230V ~ 50/60 Hz	2000	9.55	19.1	10.2	30.6	2000	4000	B	S1	130	7.5
130J ASM5 20220 K- M17B CW	230V ~ 50/60 Hz	2000	9.55	19.1	10.2	30.6	2000	4000	B	S1	130	7.5
130J ASM5 20220 K- 17BC W-SC	230V ~ 50/60 Hz	2000	9.55	19.1	10.2	30.6	2000	4000	B	S1	130	9.2
130J ASM5 20220 K- M17B CW-	230V ~ 50/60 Hz	2000	9.55	19.1	10.2	30.6	2000	4000	B	S1	130	9.2



SC													
130J ASM5 20220 K- 17BC WH	230V ~ 50/60 Hz	2000	9.55	19.1	10.2	30.6	2000	4000	B	S1	130	7.5	
130J ASM5 20220 K- M17B CWH	230V ~ 50/60 Hz	2000	9.55	19.1	10.2	30.6	2000	4000	B	S1	130	7.5	
130J ASM5 20220 K- 17BC WH- SC	230V ~ 50/60 Hz	2000	9.55	19.1	10.2	30.6	2000	4000	B	S1	130	9.2	
130J ASM5 20220 K- M17B CWH- SC	230V ~ 50/60 Hz	2000	9.55	19.1	10.2	30.6	2000	4000	B	S1	130	9.2	
130J ASM5 20220 K- 17BC T	230V ~ 50/60 Hz	2000	9.55	19.1	10.2	30.6	2000	4000	B	S1	130	7.5	
130J ASM5 20220 K- M17B CT	230V ~ 50/60 Hz	2000	9.55	19.1	10.2	30.6	2000	4000	B	S1	130	7.5	
130J ASM5 20220 K- 17BC T-SC	230V ~ 50/60 Hz	2000	9.55	19.1	10.2	30.6	2000	4000	B	S1	130	9.2	
130J ASM5 20220 K- M17B CT- SC	230V ~ 50/60 Hz	2000	9.55	19.1	10.2	30.6	2000	4000	B	S1	130	9.2	
130J ASM5 20230 K- 17BC W	230V ~ 50/60 Hz	2000	6.4	12.8	8.5	25.5	3000	6000	B	S1	130	6.4	



130J ASM5 20230 K- M17B CW	230V ~ 50/60 Hz	2000	6.4	12.8	8.5	25.5	3000	6000	B	S1	130	6.4
130J ASM5 20230 K- 17BC W-SC	230V ~ 50/60 Hz	2000	6.4	12.8	8.5	25.5	3000	6000	B	S1	130	8.1
130J ASM5 20230 K- M17B CW- SC	230V ~ 50/60 Hz	2000	6.4	12.8	8.5	25.5	3000	6000	B	S1	130	8.1
130J ASM5 20230 K- 17BC WH	230V ~ 50/60 Hz	2000	6.4	12.8	8.5	25.5	3000	6000	B	S1	130	6.4
130J ASM5 20230 K- M17B CWH	230V ~ 50/60 Hz	2000	6.4	12.8	8.5	25.5	3000	6000	B	S1	130	6.4
130J ASM5 20230 K- 17BC WH- SC	230V ~ 50/60 Hz	2000	6.4	12.8	8.5	25.5	3000	6000	B	S1	130	8.1
130J ASM5 20230 K- M17B CWH- SC	230V ~ 50/60 Hz	2000	6.4	12.8	8.5	25.5	3000	6000	B	S1	130	8.1
130J ASM5 20230 K- 17BC T	230V ~ 50/60 Hz	2000	6.4	12.8	8.5	25.5	3000	6000	B	S1	130	6.4
130J ASM5 20230 K- M17B CT	230V ~ 50/60 Hz	2000	6.4	12.8	8.5	25.5	3000	6000	B	S1	130	6.4
130J	230V	2000	6.4	12.8	8.5	25.5	3000	6000	B	S1	130	8.1



ASM5 20230 K- 17BC T-SC	~ 50/60 Hz											
130J ASM5 20230 K- M17B CT- SC	230V ~ 50/60 Hz	2000	6.4	12.8	8.5	25.5	3000	6000	B	S1	130	8.1
130J ASM5 30220 K- 17BC W	230V ~ 50/60 Hz	3000	14.3	28.6	14.3	42.9	2000	4000	B	S1	130	10.9
130J ASM5 30220 K- M17B CW	230V ~ 50/60 Hz	3000	14.3	28.6	14.3	42.9	2000	4000	B	S1	130	10.9
130J ASM5 30220 K- 17BC W-SC	230V ~ 50/60 Hz	3000	14.3	28.6	14.3	42.9	2000	4000	B	S1	130	12.6
130J ASM5 30220 K- M17B CW- SC	230V ~ 50/60 Hz	3000	14.3	28.6	14.3	42.9	2000	4000	B	S1	130	12.6
130J ASM5 30220 K- 17BC WH	230V ~ 50/60 Hz	3000	14.3	28.6	14.3	42.9	2000	4000	B	S1	130	10.9
130J ASM5 30220 K- M17B CWH	230V ~ 50/60 Hz	3000	14.3	28.6	14.3	42.9	2000	4000	B	S1	130	10.9
130J ASM5 30220 K- 17BC WH- SC	230V ~ 50/60 Hz	3000	14.3	28.6	14.3	42.9	2000	4000	B	S1	130	12.6
130J ASM5	230V ~	3000	14.3	28.6	14.3	42.9	2000	4000	B	S1	130	12.6



30220 K- M17B CWH- SC	50/60 Hz												
130J ASM5 30220 K- 17BC T	230V ~ 50/60 Hz	3000	14.3	28.6	14.3	42.9	2000	4000	B	S1	130	10.9	
130J ASM5 30220 K- M17B CT	230V ~ 50/60 Hz	3000	14.3	28.6	14.3	42.9	2000	4000	B	S1	130	10.9	
130J ASM5 30220 K- 17BC T-SC	230V ~ 50/60 Hz	3000	14.3	28.6	14.3	42.9	2000	4000	B	S1	130	12.6	
130J ASM5 30220 K- M17B CT- SC	230V ~ 50/60 Hz	3000	14.3	28.6	14.3	42.9	2000	4000	B	S1	130	12.6	
130J ASM5 30230 K- 17BC W	230V ~ 50/60 Hz	3000	9.55	19.1	16.0	48.0	3000	6000	B	S1	130	10.9	
130J ASM5 30230 K- M17B CW	230V ~ 50/60 Hz	3000	9.55	19.1	16.0	48.0	3000	6000	B	S1	130	10.9	
130J ASM5 30230 K- 17BC W-SC	230V ~ 50/60 Hz	3000	9.55	19.1	16.0	48.0	3000	6000	B	S1	130	12.6	
130J ASM5 30230 K- M17B CW- SC	230V ~ 50/60 Hz	3000	9.55	19.1	16.0	48.0	3000	6000	B	S1	130	12.6	
130J ASM5 15215	230V ~ 50/60	1500	9.55	19.1	10	30	1500	2500	B	S1	130	8.2	



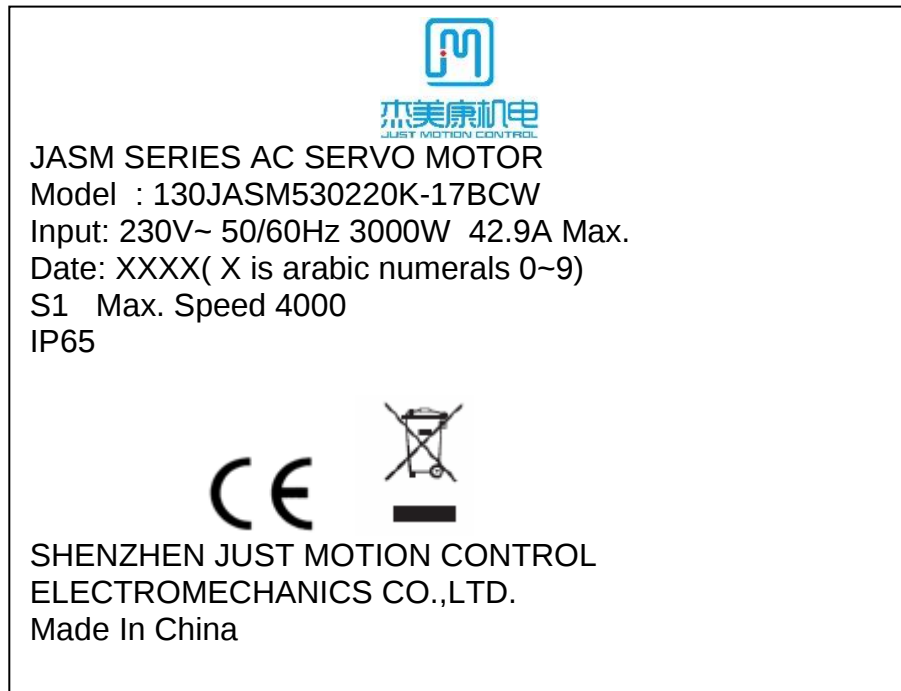
K-M23B-T	Hz											
130J ASM5 15215 K-M23B-T-SC	230V ~ 50/60 Hz	1500	9.55	19.1	10	30	1500	2500	B	S1	130	11.2
130J ASM5 15220 K-M23B-T	230V ~ 50/60 Hz	1500	7.5	15	9	27	2000	3000	B	S1	130	7.2
130J ASM5 15220 K-M23B-T-SC	230V ~ 50/60 Hz	1500	7.5	15	9	27	2000	3000	B	S1	130	10.2
130J ASM5 15230 K-M23B-T-M	230V ~ 50/60 Hz	1500	5	15	6.4	19.2	3000	6000	B	S1	130	6.4
130J ASM5 15230 K-M23B-CW	230V ~ 50/60 Hz	1500	5	15	6.4	19.2	3000	6000	B	S1	130	6.6
130J ASM5 15230 K-M23B-CWH	230V ~ 50/60 Hz	1500	5	15	6.4	19.2	3000	6000	B	S1	130	6.6
130J ASM5 15230 K-M23B-T-M-SC	230V ~ 50/60 Hz	1500	5	15	6.4	19.2	3000	6000	B	S1	130	8.4
130J ASM5 20230 K-M23B-T	230V ~ 50/60 Hz	2000	6.4	19.2	11.5	34.5	3000	6000	B	S1	130	13.7
130J ASM5 20230 K-M23B-T-SC	230V ~ 50/60 Hz	2000	6.4	19.2	11.5	34.5	3000	6000	B	S1	130	15.7



130J ASM5 30220 K- M23B -T	230V ~ 50/60 Hz	3000	14.6	29.2	17	51	2000	3000	B	S1	130	14
130J ASM5 30220 K- M23B -T-SC	230V ~ 50/60 Hz	3000	14.6	29.2	17	51	2000	3000	B	S1	130	16



Artwork of Marking Label





EN IEC 60034-5			
Clause	Requirement Test	Result - Remark	Verdict

4	Designation		P
4.1	General		P
	The designation used for the degree of protection consists of the letters IP followed by two characteristic numerals signifying conformity with the conditions indicated in the tables of Clauses 5 and 6 respectively.		P
4.2	Single characteristic numeral		P
	When it is required to indicate a degree of protection by only one characteristic numeral, the omitted numeral shall be replaced by the letter X, for example IPX5 or IP2X.		P
4.3	Supplementary letters		P
4.3.1	Additional information may be indicated by a supplementary letter following the second characteristic numeral. If more than one letter is used, the alphabetic sequence shall apply.		P
4.3.2	In special applications (such as machines with open circuit cooling for ship deck installation with air inlet and outlet openings closed during standstill), numerals may be followed by a letter indicating whether the protection against harmful effects due to ingress of water was verified or tested for the machine not running (letter S) or the machine running (letter M). In this case, the degree of protection in either state of the machine shall be indicated, for example IP55S/IP20M.		P
4.3.3	Example of designation		P

5	Degrees of protection – First characteristic numeral		P
5.1	Indication of degree of protection		P
	The first characteristic numeral indicates the degree of protection provided by the enclosure to persons and to the parts of the machine inside the enclosure.		P
5.2	Compliance to indicated degree of protection		P
	Compliance of an enclosure with an indicated degree of protection implies that the enclosure will also comply with all lower degrees of protection in Table 2. In consequence, the tests establishing these lower degrees of protection are not required, except in case of doubt.		P
5.3	External fans		P
	The blades and spokes of fans external to the enclosure shall be protected against contact by means of guards complying with Table 1 .		P



EN IEC 60034-5			
Clause	Requirement Test	Result - Remark	Verdict

5.4	Drain holes		N/A
	If the machine is provided with drain holes, the following shall apply:		N/A
	drain holes intended normally to be open on site shall be kept open during testing;		N/A
	drain holes are considered as open as long as no breather(s) or plug(s), etc., are mounted in a drain		N/A
	if machines with protection IP3X or IP4X are intended to be run with open drain holes, the drain holes may comply with protection IP2X		N/A
	if machines with protection IP5X are intended to be run with open drain holes, the drain holes shall comply with protection IP4X		N/A

6	Degrees of protection – Second characteristic numeral		P
6.1	Indication of the degree of protection		P
	The second characteristic numeral indicates the degree of protection provided by the enclosure with respect to harmful effects due to ingress of water		P
6.2	Compliance with lower degrees of protection		P
	For second characteristic numerals up to and including 6, compliance of an enclosure with an indicated degree of protection implies that the enclosure will also comply with all lower degrees of protection in Table 3.		P

7	Marking		P
	It is recommended that the characteristic letters and numerals be marked on the machine preferably on the rating plate or, if this is not practicable, on the enclosure.		P

8	General requirements for tests		P
8.1	General		P
	The tests specified in this document are type tests. They shall be carried out on standard products or models of them. Where this is not feasible, verification either by an alternative test or by examination of drawings shall be the subject of an agreement between manufacturer and user		P
8.2	Adequate clearance		P
8.2.1	General		P



EN IEC 60034-5			
Clause	Requirement Test	Result - Remark	Verdict

	For the purpose of the following test clauses in this document, the term 'adequate clearance' has the meaning given in 8.2.2 or 8.2.3.		P
8.2.2	Low-voltage machines (rated voltages not exceeding 1 000 V a.c. and 1 500 V d.c.)		P
	The test device (sphere, finger, wire, etc.) does not touch the live parts or moving parts other than non-dangerous parts such as smooth rotating shafts.		P
8.2.3	High-voltage machines (rated voltages exceeding 1 000 V a.c. and 1 500 V d.c.)		N/A
	When the test device is placed in the most unfavourable position, the machine shall be capable of withstanding the dielectric test applicable to the machine.		N/A

9	Tests for first characteristic numeral		P
	Test and acceptance conditions for the first characteristic numeral are given in Table 4.		P
	0	No test is required.	N/A
	1	The test is made with a rigid sphere of $50^{+0.05}_0$ mm diameter applied against the opening(s) in the enclosure with a force of 45 N to 55 N. The protection is satisfactory if the sphere does not pass through any opening and adequate clearance is maintained to parts which are normally live in service or moving parts inside the machine.	N/A
	2	a) Finger test The test is made with a metallic test finger as shown in Figure 1 . Both joints of this finger may be bent through an angle of 90° with respect to the axis of the finger, but in one and the same direction only. The finger is pushed without undue force (not more than 10 N) against any openings in the enclosure and, if it enters, it is placed in every possible position. The protection is satisfactory if adequate clearance is maintained between the test finger and live or moving parts inside the enclosure. However, it is permissible to touch smooth rotating shafts and similar non-dangerous parts. For this test, the internal moving parts may be operated slowly, where this is possible. For tests on a low-voltage machine, a low-voltage supply (of not less than 40 V)	N/A



EN IEC 60034-5			
Clause	Requirement Test	Result - Remark	Verdict
	in series with a suitable lamp may be connected between the test finger and the live parts inside the enclosure. Conducting parts covered only with varnish or paint, or protected by oxidation or by a similar process, shall be covered with a metal foil electrically connected to those parts which are normally live in service. The protection is satisfactory if the lamp does not light. For high-voltage machines, adequate clearance is verified by a dielectric test, or by a measurement of clearance distance in accordance with the principles of 8.2.3.		
	b) Sphere test The test is made with a rigid sphere of $12.5^{+0.05}_0$ mm diameter applied to the openings of the enclosure with a force of 27 N to 33 N. The protection is satisfactory if the sphere does not pass through any opening and adequate clearance is maintained to live or moving parts inside the machine.		N/A
	3 The test is made with a straight rigid steel wire or rod of $2.5^{+0.05}_0$ mm diameter applied with a force of 2,7 N to 3,3 N. The end of the wire or rod shall be free from burrs and at right angles to its length. The protection is satisfactory if the wire or rod cannot enter the enclosure.		N/A
	4 The test is made with a straight rigid steel wire of $1^{+0.05}_0$ mm diameter applied with a force of 0,9 N to 1,1 N. The end of the wire shall be free from burrs and at right angles to its length. The protection is satisfactory if the wire cannot enter the enclosure.		N/A
	5 a) Dust test The test is made using equipment incorporating the basic principles shown in Figure 2, in which talcum powder is maintained in suspension in a suitable closed test chamber. The talcum powder used shall be able to pass through a square-meshed sieve having a nominal wire diameter of 50 μm and a nominal width between wires of 75 μm. The amount of talcum powder to be used is 2 kg/m³ of the test chamber volume. It shall not be used for more than 20 tests.		N/A



EN IEC 60034-5			
Clause	Requirement Test	Result - Remark	Verdict

		b) Wire test If the machine is intended to be run with open drain hole(s), these shall be tested in the same manner as the first characteristic numeral 4, that is, using a 1 mm diameter wire.	
	6	Test in accordance with 5 a). The protection is satisfactory if, on inspection, there is no ingress of talcum powder	P

10	Tests for second characteristic numeral		P
10.1	Test conditions		P
	Test conditions for the second characteristic numeral are given in Table 5.		P
	0	No test is required.	N/A
	1	The test is made by means of an equipment, the principle of which is shown in Figure 3. The rate of discharge shall be reasonably uniform over the whole area of the apparatus and shall produce a rainfall of between 3 mm and 5 mm of water per minute (in the case of equipment according to Figure 3, this corresponds to a fall in water level of 3 mm to 5 mm/min). The machine under test is placed in its normal operating position under the dripping equipment, the base of which shall be larger than that of the machine. Except for machines designed for wall or ceiling mounting, the support for the enclosure under test should be smaller than the base of the enclosure The machine normally fixed to a wall or ceiling is fixed in its normal position of use to a wooden board having dimensions which are equal to those of that surface of the machine which is in contact with the wall or ceiling when the machine is mounted as in normal use. The duration of the test shall be 10 min.	N/A



EN IEC 60034-5			
Clause	Requirement Test	Result - Remark	Verdict
	2	The dripping equipment is the same as that specified for the second characteristic numeral 1 and is adjusted to give the same rate of discharge. The machine is tested for 2,5 min in each of four fixed positions of tilt. These positions are 15° either side of the vertical in two mutually perpendicular planes. The total duration of the test shall be 10 min.	N/A
	3	The test shall be made using equipment such as is shown in Figure 4, provided that the dimensions and shape of the machine to be tested are such that the radius of the oscillating tube does not exceed 1 m. Where this condition cannot be fulfilled, a hand-held spray device, as shown in Figure 5, shall be used a) Conditions when using test equipment as shown in Figure 4. b) Conditions when using test equipment as shown in Figure 5. The test duration shall be 1 min/m ² of calculated surface area of the machine (excluding any mounting surface and cooling fin) with a minimum duration of 5 min	N/A
	4	The conditions for deciding whether the apparatus of Figure 4 or that of Figure 5 should be used are the same as stated for the second characteristic numeral 3 a) Using the equipment as shown in Figure 4. b) Using the equipment as shown in Figure 5. The rate of water delivery and the spraying time per unit area are the same as for degree 3.	N/A



EN IEC 60034-5			
Clause	Requirement Test	Result - Remark	Verdict
	5 The test is made by spraying the machine from all practicable directions with a stream of water from a standard test nozzle as shown in Figure 6. The conditions to be observed are as follows: - nozzle internal diameter: 6,3 mm - delivery rate: 1 1 ,9 – 1 3,2 l/min; - water pressure at the nozzle: approximately 30 kPa (see NOTE 1); - test duration per m 2 of surface area of the machine: 1 min; - minimum test duration: 3 min; - distance from nozzle to machine surface: approximately 3 m (see NOTE 2). (This distance may be reduced, if necessary to ensure proper wetting when spraying upwards).		P
	6 - distance from nozzle to machine surface: approximately 3 m (see NOTE 2). (This distance may be reduced, if necessary to ensure proper wetting when spraying upwards). - nozzle internal diameter: 1 2,5 mm; - delivery rate: 95 – 1 05 l/min - water pressure at the nozzle: approximately 1 00 kPa (see NOTE 1); - test duration per m 2 of surface area of the machine: 1 min; - minimum test duration: 3 min; - distance from nozzle to machine surface: approximately 3 m (see NOTE 2).		N/A
	7 The test is made by completely immersing the machine in water so that the following conditions are satisfied: a) the surface of the water shall be at least 1 50 mm above the highest point of the machine; b) the lowest portion of the machine shall be at least 1 m below the surface of the water; c) the duration of the test shall be at least 30 min; d) the water temperature shall not differ from that of the machine by more than 5 °C By agreement between manufacturer and user, this test may be replaced by the following procedure: The machine should be tested with an inside air pressure of about 1 0 kPa. The duration of the test is 1 min. The test is		N/A



EN IEC 60034-5			
Clause	Requirement Test	Result - Remark	Verdict
	deemed satisfactory if no air leaks out during the test. Air leakage may be detected either by submersion, the water just covering the machine, or by the application onto it of a solution of soap in water.		
	8 The test conditions are subject to agreement between manufacturer and user, but they shall not be less severe than those prescribed for degree 7.		N/A
	9 The test is made by spraying the enclosure with a stream of water from a standard test nozzle as shown in Figure 7. The set-up for measuring the impact force of the water jet is given in Figure 8a. The distribution force shall be verified at upper and lower limits of distance tolerance range (see Figure 8b). During the test a) or b) of the enclosure, the water temperature shall be $(80 \pm 5) ^\circ\text{C}$. a) For small enclosures (largest dimension less than 250 mm), the enclosure shall be mounted on the test device shown in Figure 9: turntable speed: 5 rev/min $\pm$ 1 rev/min spray positions: 0°, 30°, 60°, 90° The test duration is 30 s per position. b) For large enclosures (largest dimension greater than or equal to 250 mm), the enclosure shall be mounted as per intended use. The enclosure shall be sprayed covering the entire exposed surface area: spray positions: the enclosure shall be sprayed from all practical directions covering the entire surface area and the spray shall be as far as it is possible perpendicular to the sprayed surface. distance between nozzle and sample under test shall be 175 ± 25 mm. The test duration is 1 min/m ² of the calculated surface area of the enclosure (excluding any mounting surface), with a minimum duration of 3 min.		N/A
10.2	Acceptance conditions		P
10.2.1	General		P
	After the test in accordance with Table 5 has been carried out, the machine shall be inspected for ingress of water and subjected to the following verification and tests.		P



EN IEC 60034-5			
Clause	Requirement Test	Result - Remark	Verdict
10.2.2	Ingress of water		P
	The amount of water which has entered the machine shall not be capable of interfering with its satisfactory operation. The windings and live parts not designed to operate when wet shall not be wet and no accumulation of water which could reach them shall occur inside the machine.		P
10.2.3	Withstand voltage test		P
	In the case of a test on a machine not running:		P
	a) the machine shall be operated under no-load conditions at rated voltage for 1 5 min,		P
	b) then be submitted to a withstand voltage test, the test voltage being 50 % of the test voltage for a new machine (but not less than 1 25 % of the rated voltage).		P
11	Requirements and tests for open weather-protected machines		N/A
	The degree of protection W is intended for air-cooled open machines with open circuit cooling, that is, machines with cooling systems designated by IC0X to IC3X according to IEC 60034-6.		N/A

ATTACHED (PHOTOS)



Photo 1

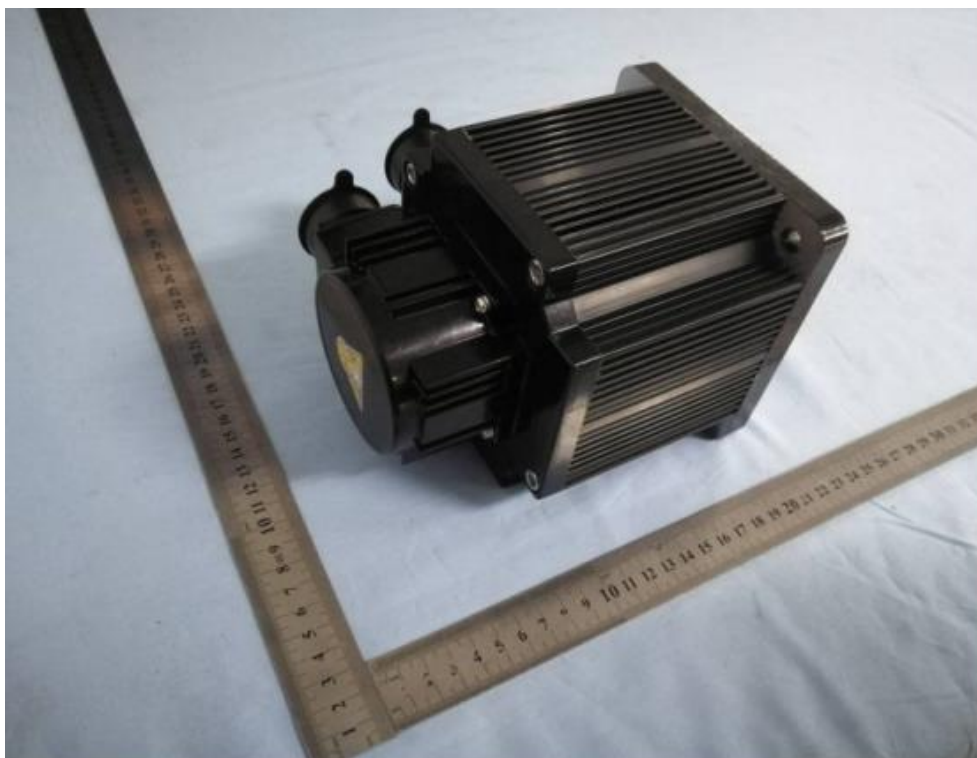


Photo 2



Photo 3



Photo 4

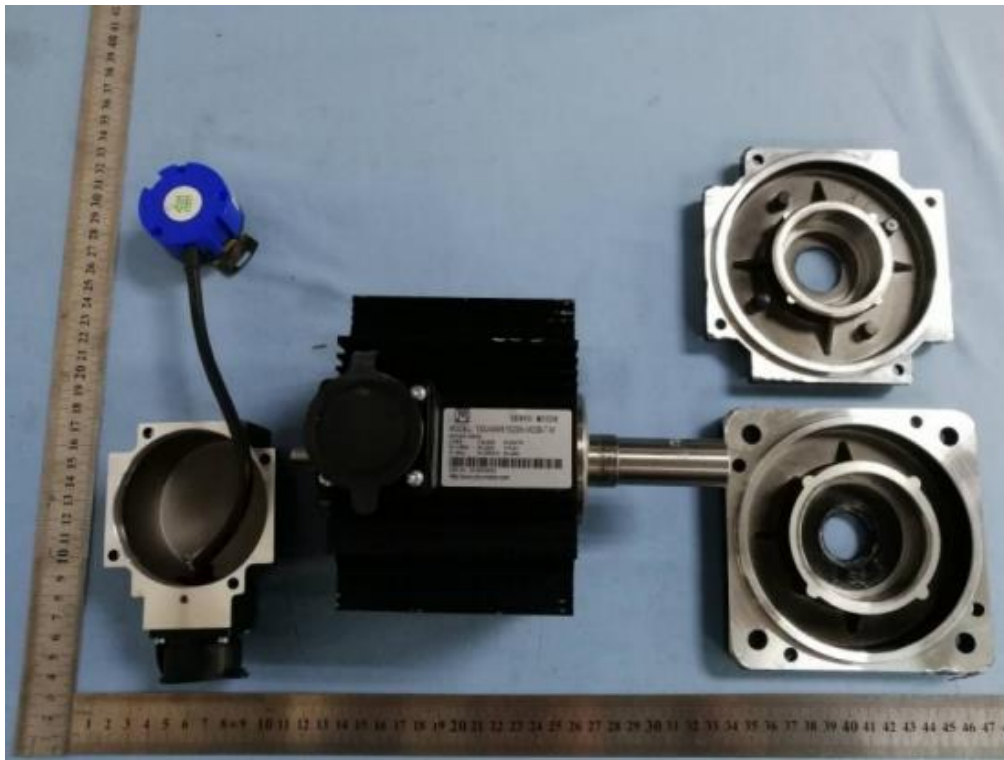


Photo 5



Photo 6



Photo 7

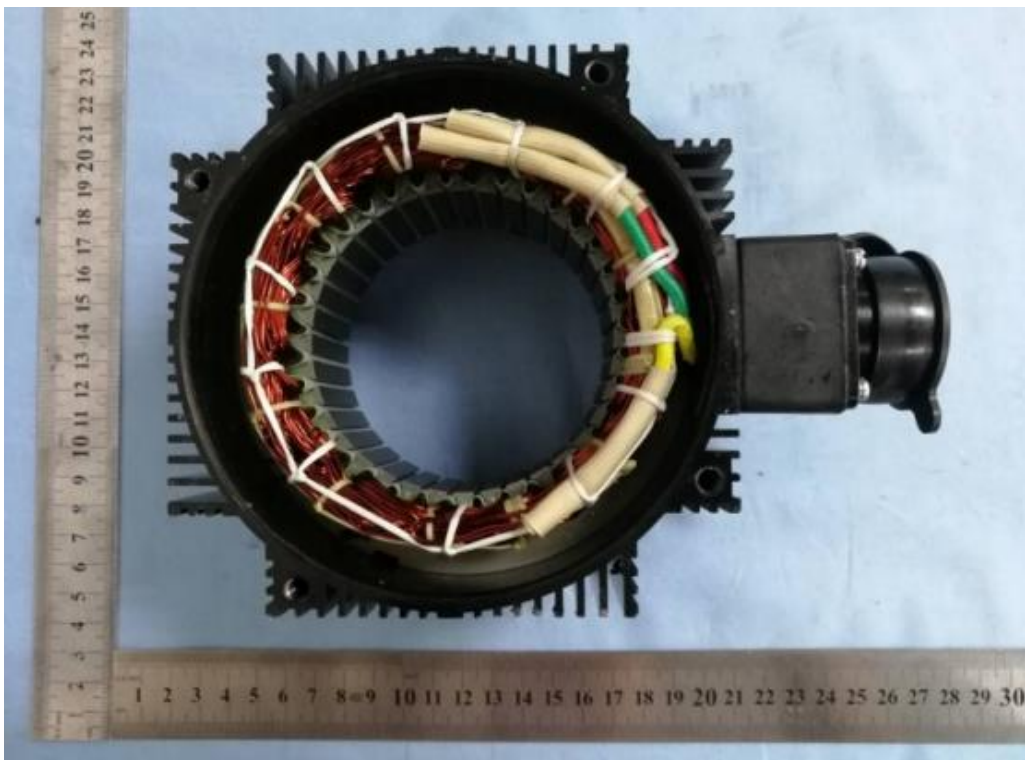


Photo 8

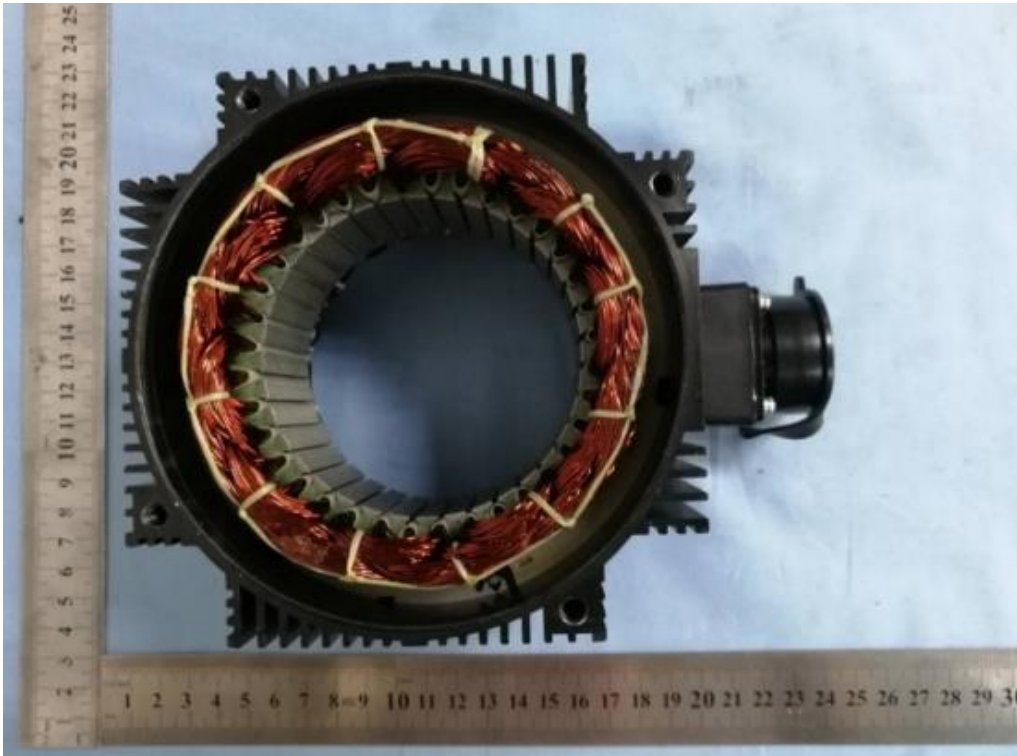


Photo 9

***** END OF REPORT *****