

Report No.: 244528103a 001

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Client: ESTUN AUTOMATION CO., LTD

Contact Information: No.1888,Jiyin Road,Jiangning Development Zone, Nanjing, Jiangsu,
P.R. China

Identification/ Servo motor

Model No(s): Please refer to page 2~3

Condition at delivery: Test item complete and undamaged.

Sample Receiving date: 2024-03-06

Testing Period: 2024-03-07 to 2024-03-18

Place of testing: Chemical laboratory Shanghai

Test Specification:

Test result:

Customer's requirement:

1. Screening Test by XRF Spectroscopy
Cadmium, Lead, Chromium (VI), Mercury, Polybrominated biphenyls (PBB)
and Polybrominated diphenyl ethers (PBDE)
Benzylbutyl phthalate (BBP), Dibutyl phthalate (DBP), Bis(2-ethylhexyl)
phthalate (DEHP), Diisobutyl phthalate (DIBP)
According to RoHS (recast): Restriction of the Use of Certain Hazardous
Substances in Electrical and Electronic Equipment, 2011/65/EU Annex II and
its amendment.

PASS

For and on behalf of
TÜV Rheinland (Shanghai) Co., Ltd.



2024-06-25

Ryan Chen / Department Manager

Date

Name/Position

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.

This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

"Decision Rule" document announced in our website (<https://www.tuv.com/landingpage/en/qm-gcn/>) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.

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Identification / Model No.:

EM3A- Series EM3A-xD###&&-* x = 10; # stands for A-Z to indicate encoder soft edition; & stands for 0-9 to indicate the mechanical structure of the shaft; -* stands for null to indicate general manufacture; -* stands for - 0-9 or - A-Z or any other form to indicate client number or can be blank
EM3J- Series EM3J-xD###&&-* x = 10; # stands for A-Z to indicate encoder soft edition; & stands for 0-9 to indicate the mechanical structure of the shaft; -* stands for null to indicate general manufacture; -* stands for - 0-9 or - A-Z or any other form to indicate client number or can be blank.
EM3R- Series EM3R-xA###&&-* EM3R-xD###&&-* x = 01; 55; 63 or 75; # stands for A-Z to indicate encoder soft edition; & stands for 0-9 to indicate the mechanical structure of the shaft; -* stands for null to indicate general manufacture; -* stands for - 0-9 or - A-Z or any other form to indicate client number or can be blank.
EM3D- Series EM3D-xA###&&-* EM3D-xD###&&-* x = 10; 15; 20; 30; 50; 60 or 75; # stands for A-Z to indicate encoder soft edition; & stands for 0-9 to indicate the mechanical structure of the shaft; -* stands for null to indicate general manufacture; -* stands for - 0-9 or - A-Z or any other form to indicate client number or can be blank.
EM3L- Series EM3L-xD###&&-* x = 10; 20; 30 or 40; # stands for A-Z to indicate encoder soft edition; & stands for 0-9 to indicate the mechanical structure of the shaft; -* stands for null to indicate general manufacture; -* stands for - 0-9 or - A-Z or any other form to indicate client number, or can be blank.
EM3G- Series EM3G-xA###&&-* EM3G-xD###&&-* x = 15; 20; 30; 40 or 50; # stands for A-Z to indicate encoder soft edition; & stands for 0-9 to indicate the mechanical structure of the shaft; -* stands for null to indicate general manufacture; -* stands for - 0-9 or - A-Z or any other form to indicate client number, -* stands for can be blank
EMB Series EMB-abDcdef-xy ab=75; 1A or 1E; c stands for A-Z to indicate encoder variety; d stands for A-Z to indicate encoder hardware edition; e or f stands for 0-9 to indicate axletree information; x or y stands for null to indicate general manufacture; x or y stands for 0-9 or A-Z to indicate client number
EMG Series EMG-abAcdef-xy; EMG-abDcdef-xy ab=10; 15; 20; 30 or 50; c stands for A-Z to indicate encoder variety; d stands for A-Z to indicate encoder hardware edition; e or f stands for 0-9 to indicate axletree information; x or y stands for null to indicate general manufacture; x or y stands for 0-9 or A-Z to indicate client number
EMJ Series EMJ-abAcdef-xy

ab=A5; 01; 02; 04; 08 or 10; c stands for A-Z to indicate encoder variety; d stands for A-Z to indicate encoder hardware edition; e or f stands for 0-9 to indicate axletree information; x or y stands for null to indicate general manufacture; x or y stands for 0-9 or A-Z to indicate client number

FBM Series
FBM-abAcdef-xy; FBM-abDcdef-xy

ab=10; 15; 20; 30 or 50; c stands for A-Z to indicate encoder variety; d stands for A-Z to indicate encoder hardware edition; e or f stands for 0-9 to indicate axletree information; x or y stands for null to indicate general manufacture; x or y stands for 0-9 or A-Z to indicate client number

FBS Series
FBS-abAcdef-xy

ab=A5; 01; 02; 04; 08 or 10; c stands for A-Z to indicate encoder variety; d stands for A-Z to indicate encoder hardware edition; e or f stands for 0-9 to indicate axletree information; x or y stands for null to indicate general manufacture; x or y stands for 0-9 or A-Z to indicate client number.

EML Series
EML-abAcdef-xy; EML-abDcdef-xy

ab=10; 20; 30 or 40; c stands for A-Z to indicate encoder variety; d stands for A-Z to indicate encoder hardware edition; e or f stands for 0-9 to indicate axletree information; x or y stands for null to indicate general manufacture; x or y stands for 0-9 or A-Z to indicate client number

EMS Series
EMS-abAcdef-xy; EMS-mnDcdef-xy

ab=02; 04; 08; 10 or 15; mn=02 04 08 10 15 20 30 50; c stands for A-Z to indicate encoder variety; d stands for A-Z to indicate encoder hardware edition n; e or f stands for 0-9 to indicate axletree information; x or y stands for null to indicate general manufacture; x or y stands for 0-9 or A-Z to indicate client number.

EMB-aD#C&&-* EMB-bD#D&&-* a= 87, 1Z, 1C, 1F, 2A, 2F, 3C, 3G, 4E, 5E, 7E, 9Z, 1AZ, 1CB; b= 2A, 2F, 3C, 3G, 4E, 5E, 7E, 9Z, 1ZZ, 1BZ; # stands for A-Z to indicate encoder soft edition; & stands for 0-9 to indicate the mechanical structure of the shaft; * stands for null to indicate general manufacturer; * stands for 0-9 or A-Z or any other form to indicate client number, -* stands for can be blank.

EM3A Series

EM3A-xA##&&-* x = A5; 01; 02; 04; 08; 10; 15; 20; 30; 40 or 50; # stands for A-Z to indicate encoder soft edition; & stands for 0-9 to indicate the mechanical structure of the shaft; * stands for null to indicate general manufacture; * stands for 0-9 or A-Z or any other form to indicate client number, -* stands for can be blank

EM5G-Series
EM5G-xD##R&&-*

x = 55 or 83;
 # stands for A-Z to indicate encoder soft edition;
 R stands for Special for robot
 & stands for 0-9 to indicate the mechanical structure of the shaft; -* stands for null to indicate general manufacture;
 -* stands for - 0-9 or - A-Z or any other form to indicate client number or can be blank.

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Material List:

Item: Servo motor

Please refer to page 2~3

Material No.	Material	Color	Location
A001	Metal + coating	black	refer to photo
A002	Plastic	black	refer to photo
A003	Plastic	black	refer to photo
A004	Plastic	white	refer to photo
A005	Plastic	black	refer to photo
A006	Metal	silver	refer to photo
A007	Plastic	yellow	refer to photo
A008	Plastic	brown	refer to photo
A009	Plastic	white	refer to photo
A010	Plastic	black	refer to photo
A011	Plastic	blue	refer to photo
A012	Plastic	red	refer to photo
A013	Glue	black	refer to photo
A014	Textile	white	refer to photo
A015	Metal	silver	refer to photo
A016	Metal	silver	refer to photo
A017	Magnet	silver	refer to photo
A018	Metal	grey	refer to photo
A019	Metal	silver	refer to photo
A020	Plastic	black	refer to photo
A021	Metal	golden	refer to photo
A022	Metal	silver	refer to photo
A023	Rubber	black	refer to photo
A024	Plastic	white	refer to photo
A025	Plastic	black	refer to photo
A026	Plastic	orange	refer to photo
A027	Plastic	brown	refer to photo
A028	Plastic	blue	refer to photo

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A029	Plastic	grey	refer to photo
A030	Metal	golden	refer to photo
A031	Rubber	black	refer to photo
A032	Metal	silver	refer to photo
A033	Plastic	black	refer to photo
A034	Glass + coating	brown	refer to photo
A035	Magnet	silver	refer to photo
A036	Metal	silver	refer to photo
A037	Metal	silver	refer to photo
A038	Metal + coating	black	refer to photo
A039	Silicone	white	refer to photo
A040	Metal	silver	refer to photo
A041	Plastic	black	refer to photo
A042	PCB board	green	refer to photo
A043	Glue	transparent	refer to photo
A044	Electronic components	brown	refer to photo
A045	Electronic components	black	refer to photo
A046	Electronic components	black	refer to photo
A047	Electronic components	black	refer to photo
A048	Plastic	white	refer to photo
A049	Electronic components	black	refer to photo
A050	Electronic components	black	refer to photo
A051	Metal	silver	refer to photo
A052	Metal	silver	refer to photo
A053	Metal + coating	black	refer to photo
A054	Metal + coating	black	refer to photo
A055	Metal	silver	refer to photo
A056	Metal	silver	refer to photo
C001	Glue	dark cyan	refer to photo
C002	Textile	white	refer to photo
C003	Coating	black	refer to photo
C004	Metal	silver	refer to photo

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C005	Metal	silver	refer to photo
C006	Rubber	brown	refer to photo
C007	Metal	silver	refer to photo
C008	Metal	silver	refer to photo
C009	Metal	dark grey	refer to photo
C010	Metal	silver	refer to photo
C011	Metal	silver	refer to photo
C012	Plastic	green	refer to photo
C013	Metal	silver	refer to photo
C014	Plastic	black	refer to photo
C015	Metal + coating	black	refer to photo
C016	Solder	silver	refer to photo
C017	Metal	golden	refer to photo
C018	Plastic	white	refer to photo
C019	Plastic	white	refer to photo
C020	Plastic	blue	refer to photo
C021	Plastic	red	refer to photo
C022	Metal + coating	black	refer to photo
C023	Metal	silver	refer to photo
C024	Metal	silver	refer to photo
C025	Silicone	white	refer to photo
C026	Metal	silver	refer to photo
C027	Rubber	black	refer to photo
C028	Glass + coating	black	refer to photo
C029	Magnet	silver	refer to photo
C030	Metal	silver	refer to photo
C031	Electronic components	black	refer to photo
C032	Electronic components	black	refer to photo
C033	Electronic components	brown	refer to photo
C034	Electronic components	black	refer to photo
C035	Electronic components	black	refer to photo
C036	Electronic components	black	refer to photo

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C037	Glue	transparent	refer to photo
C038	PCB board	green	refer to photo
C039	Electronic components	black	refer to photo
C040	Rubber	black	refer to photo
C041	Metal	silver	refer to photo
C042	Plastic	black	refer to photo
C043	Plastic	black	refer to photo
C044	Metal	silver	refer to photo
C045	Plastic	grey	refer to photo
C046	Plastic	blue	refer to photo
C047	Plastic	brown	refer to photo
C048	Plastic	orange	refer to photo
C049	Plastic	black	refer to photo
C050	Plastic	white	refer to photo
C051	Metal	golden	refer to photo
C052	Rubber	black	refer to photo
C053	Plastic	dark green	refer to photo
C054	Plastic	grey/red	refer to photo
C055	Plastic	red	refer to photo
C056	Plastic	black	refer to photo
C057	Metal	silver	refer to photo
C058	Metal + coating	black	refer to photo
C059	Metal + coating	black	refer to photo
C060	Metal + coating	black	refer to photo
C061	Metal + coating	black	refer to photo
C062	Metal + coating	black	refer to photo
C063	Metal + coating	black	refer to photo
C064	Metal	silver	refer to photo

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C065	Metal	black	refer to photo
C066	Metal	silver	refer to photo

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1.Screening Test by XRF spectroscopy

Test Method: Cadmium, Lead, Mercury, Chromium, Bromine
 -- With reference to IEC 62321-3-1:2013

Test Result:

Material No.	Cd	Cr	Pb	Hg	Br
A001	BL	d*1	BL	BL	n.a.
A002	BL	BL	BL	BL	BL
A003	BL	BL	BL	BL	BL
A004	BL	BL	BL	BL	BL
A005	BL	BL	BL	BL	BL
A006	BL	BL	BL	BL	n.a.
A007	BL	BL	BL	BL	BL
A008	BL	BL	BL	BL	BL
A009	BL	BL	BL	BL	BL
A010	BL	BL	BL	BL	BL
A011	BL	BL	BL	BL	BL
A012	BL	BL	BL	BL	BL
A013	BL	BL	BL	BL	BL
A014	BL	BL	BL	BL	BL
A015	BL	BL	BL	BL	n.a.
A016	BL	d*1	BL	BL	n.a.
A017	BL	BL	BL	BL	n.a.
A018	BL	BL	BL	BL	n.a.
A019	BL	d*1	BL	BL	n.a.
A020	BL	BL	BL	BL	BL
A021	BL	d*1	BL	BL	n.a.
A022	BL	d*1	BL	BL	n.a.
A023	BL	BL	BL	BL	BL
A024	BL	BL	BL	BL	BL
A025	BL	BL	BL	BL	BL
A026	BL	BL	BL	BL	BL
A027	BL	BL	BL	BL	BL
A028	BL	BL	BL	BL	BL
A029	BL	BL	BL	BL	BL
A030	BL	BL	BL	BL	n.a.
A031	BL	BL	BL	BL	BL
A032	BL	BL	BL	BL	n.a.
A033	BL	BL	BL	BL	BL
A034	BL	BL	BL	BL	n.a.
A035	BL	BL	BL	BL	n.a.
A036	BL	BL	BL	BL	n.a.
A037	BL	BL	BL	BL	n.a.

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A038	BL	d*1	BL	BL	n.a.
A039	BL	BL	BL	BL	BL
A040	BL	d*1	BL	BL	n.a.
A041	BL	BL	BL	BL	d*1
A042	BL	BL	BL	BL	d*1
A043	BL	BL	BL	BL	BL
A044	BL	BL	BL	BL	BL
A045	BL	BL	BL	BL	BL
A046	BL	BL	BL	BL	BL
A047	BL	BL	BL	BL	BL
A048	BL	BL	BL	BL	d*1
A049	BL	BL	BL	BL	BL
A050	BL	BL	BL	BL	BL
A051	BL	d*1	BL	BL	n.a.
A052	BL	d*1	BL	BL	n.a.
A053	BL	d*1	BL	BL	n.a.
A054	BL	d*1	BL	BL	n.a.
A055	BL	d*1	BL	BL	n.a.
A056	BL	d*1	BL	BL	n.a.
C001	BL	BL	BL	BL	BL
C002	BL	BL	BL	BL	BL
C003	BL	BL	BL	BL	BL
C004	BL	BL	BL	BL	n.a.
C005	BL	d*1	BL	BL	n.a.
C006	BL	BL	BL	BL	BL
C007	BL	d*1	BL	BL	n.a.
C008	BL	d*1	BL	BL	n.a.
C009	BL	BL	BL	BL	n.a.
C010	BL	BL	d*1	BL	n.a.
C011	BL	BL	BL	BL	n.a.
C012	BL	BL	BL	BL	BL
C013	BL	BL	BL	BL	n.a.
C014	BL	BL	BL	BL	BL
C015	BL	BL	BL	BL	n.a.
C016	BL	BL	BL	BL	n.a.
C017	BL	BL	BL	BL	n.a.
C018	BL	BL	BL	BL	BL
C019	BL	BL	BL	BL	BL
C020	BL	BL	BL	BL	BL
C021	BL	BL	BL	BL	BL
C022	BL	BL	BL	BL	n.a.
C023	BL	BL	BL	BL	n.a.
C024	BL	BL	BL	BL	n.a.

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C025	BL	BL	BL	BL	BL
C026	BL	BL	BL	BL	n.a.
C027	BL	BL	BL	BL	BL
C028	BL	BL	BL	BL	n.a.
C029	BL	BL	BL	BL	n.a.
C030	BL	BL	BL	BL	n.a.
C031	BL	BL	BL	BL	BL
C032	BL	BL	BL	BL	BL
C033	BL	BL	BL	BL	BL
C034	BL	BL	BL	BL	BL
C035	BL	BL	BL	BL	BL
C036	BL	BL	BL	BL	BL
C037	BL	BL	BL	BL	BL
C038	BL	BL	BL	BL	d*1
C039	BL	BL	BL	BL	BL
C040	BL	BL	BL	BL	BL
C041	BL	BL	BL	BL	n.a.
C042	BL	BL	BL	BL	BL
C043	BL	BL	BL	BL	BL
C044	BL	BL	BL	BL	n.a.
C045	BL	BL	BL	BL	BL
C046	BL	BL	BL	BL	BL
C047	BL	BL	BL	BL	BL
C048	BL	BL	BL	BL	BL
C049	BL	BL	BL	BL	BL
C050	BL	BL	BL	BL	BL
C051	BL	BL	BL	BL	n.a.
C052	BL	BL	BL	BL	BL
C053	BL	BL	BL	BL	BL
C054	BL	BL	BL	BL	BL
C055	BL	BL	BL	BL	d*1
C056	BL	BL	BL	BL	d*1
C057	BL	BL	BL	BL	n.a.
C058	BL	d*1	BL	BL	n.a.
C059	BL	d*1	BL	BL	n.a.
C060	BL	BL	BL	BL	n.a.
C061	BL	d*1	BL	BL	n.a.
C062	BL	d*1	BL	BL	n.a.
C063	BL	d*1	BL	BL	n.a.
C064	BL	d*1	BL	BL	n.a.
C065	BL	BL	BL	BL	n.a.
C066	BL	d*1	BL	BL	n.a.

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Abbreviation:	Pb	=	Lead
	Cd	=	Cadmium
	Hg	=	Mercury
	Cr	=	Chromium
	Br	=	Bromine
	n.a.	=	Not applicable
	BL	=	Below limit
	OL	=	Over limit
	d.	=	Detected

Remark:

- (*1) The screening result was detected in the inconclusive region or over limits, thus the further wet chemistry tests are suggested.
- (*2) Component(s)/ materials(s) with an area of less than 2 mm x 2 mm will not be selected for testing according to RoHS Directive 2011/65/EU due to technical reason.
 For the test sample does not have detail materials information provided by client, visually identical materials (e.g. wire insulation, solder points, etc.) will be considered as the same material.
 Solder points on a printing circuit board will be examined several times based on optical anomalies or discoloration of the solder point(s) unless the solder point(s) is obviously generated automatically during production.
 All other materials will be sampled and tested at one test point representatively.

XRF Screening limits for different matrices :

Material	Concentration (%)				
	Cd	Cr	Pb	Hg	Br
Polymeric	BL≤0.006<X<0.014≤ OL	BL≤0.064<X	BL≤0.067<X<0.133≤ OL	BL≤0.066<X< 0.134≤OL	BL≤0.029<X
Metallic	BL≤0.006<X<0.014≤ OL	BL≤0.064<X	BL≤0.067<X<0.133≤ OL	BL≤0.066<X< 0.134≤OL	n.a.
Composite materials	BL≤0.004<X<0.016≤ OL	BL≤0.044<X	BL≤0.047<X<0.153≤ OL	BL≤0.046<X< 0.154≤OL	BL≤0.024<X

Remark: The symbol "X" marks the region where further investigation is necessary.

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Cadmium, Lead, Chromium (VI), Mercury, Polybrominated biphenyls (PBB) and Polybrominated diphenyl ethers (PBDE)

Test Method: Total Cadmium, Lead, Mercury, Chromium
 - Ref. to IEC 62321-4:2013+AMD1:2017 and IEC 62321-5:2013

Chromium (VI)
 - For Metal material - Ref. to IEC 62321-7-1:2015
 - For Polymer, Electronic material or others materials – Ref. to IEC 62321-7-2:2017

PBBs, PBDEs – Ref. to IEC 62321-6:2015

Test Result:

	Cd	Cr(VI)	Pb	Hg	PBBs	PBDEs
Maximum Permissible Limit (%)	0.01	0.1	0.1	0.1	0.1	0.1

Material No.	(%)					
	Cd	Cr ^{VI}	Pb	Hg	PBBs	PBDEs
	RL (%)					
	0.001	0.001	0.001	0.001	0.01	0.01
A041	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A042	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A048	n.a.	n.a.	n.a.	n.a.	< RL	< RL
C010	n.a.	n.a.	3.96*6(c)	n.a.	n.a.	n.a.
C038	n.a.	n.a.	n.a.	n.a.	< RL	< RL
C055	n.a.	n.a.	n.a.	n.a.	< RL	< RL
C056	n.a.	n.a.	n.a.	n.a.	< RL	< RL

Material No.	Chromium VI content for metal materials (µg/cm²) (*1) RL: 0.10 µg/cm²
A001	Negative
A016	Negative
A019	Negative
A021	Negative
A022	Negative
A038	Negative
A040	Negative
A051	Negative
A052	Negative
A053	Negative
A054	Negative
A055	Negative

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A056	Negative
C005	Negative
C007	Negative
C008	Negative
C058	Negative
C059	Negative
C061	Negative
C062	Negative
C063	Negative
C064	Negative
C066	Negative

Abbreviation:

Pb	= Lead
Cd	= Cadmium
Hg	= Mercury
Cr	= Chromium
Cr (VI)	= Chromium (VI)
PBBs	= Total Polybrominated Biphenyls
PBDEs	= Total Polybrominated Diphenyl Ethers
<	= Less than
RL	= Reporting Limit
n.a.	= Not Applicable
^	= The total Chromium have been determined
%	= Percentage

Remark:

- (*1) The Chromium (VI) content of metal sample in surface layer have been confirmed with reference to IEC 62321-7-1:2015 Annex.

	Chromium (VI) concentration	Qualitative result
Negative	$<0.1 \mu\text{g}/\text{cm}^2$	The sample is negative (-ve) for Cr(VI). The Cr(VI) concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating
Inconclusive	$\geq 0.1 \mu\text{g}/\text{cm}^2$ and $\leq 0.13 \mu\text{g}/\text{cm}^2$	The result is considered to be inconclusive. Unavoidable coating variations may influence the determination. Recommendation: if additional samples are available, perform a total of 3 trials to increase sampling surface area. Use the averaged result of the 3 trials for the final determination.
Positive	$>0.13 \mu\text{g}/\text{cm}^2$	The sample is positive (+ve) for Cr(VI). Concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI).

*6(c) Copper alloy containing up to 4 % lead by weight.

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BBP, DBP, DEHP, DIBP content

Test Method: ref. to IEC 62321-8:2017

Test Result:

	BBP	DBP	DEHP	DIBP
Maximum permissible Limit (%)	0.1	0.1	0.1	0.1

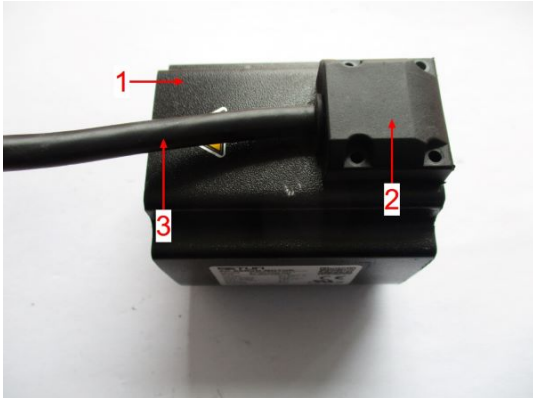
Test No.	Material No.	RL (%)			
		BBP	DBP	DEHP	DIBP
		RL (%)			
		0.005	0.005	0.005	0.005
T001	A003 + A005 + A007	< RL	< RL	< RL	< RL
T002	A008 + A009 + A010	< RL	< RL	< RL	< RL
T003	A011 + A012 + A033	< RL	< RL	< RL	< RL
T004	A023 + A031 + A039	< RL	< RL	< RL	< RL
T005	A024 + A025 + A026	< RL	< RL	< RL	< RL
T006	A027 + A028 + A029	< RL	< RL	< RL	< RL
T007	C006	< RL	< RL	< RL	< RL
T008	C018 + C019 + C020	< RL	< RL	< RL	< RL
T009	C021 + C054	< RL	< RL	< RL	< RL
T010	C027 + C040 + C052	< RL	< RL	0.018	< RL

Abbreviation: BBP= Benzylbutyl phthalate
 DBP= Dibutyl phthalate
 DEHP= Bis(2-ethylhexyl) phthalate
 DIBP= Diisobutyl phthalate
 < = less than
 RL = Reporting Limit
 %= percentage

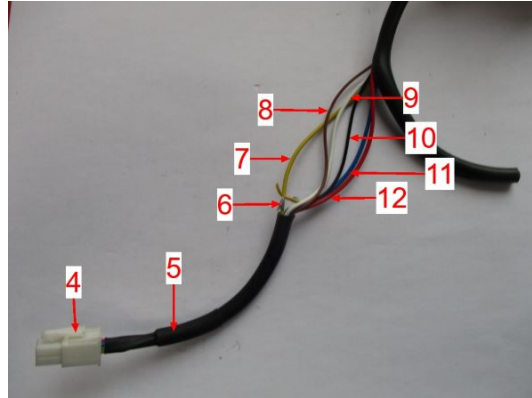
Remark:

- * The maximum permissible limit is required from the amendment (EU) 2015/863 of RoHS Directive 2011/65/EU.

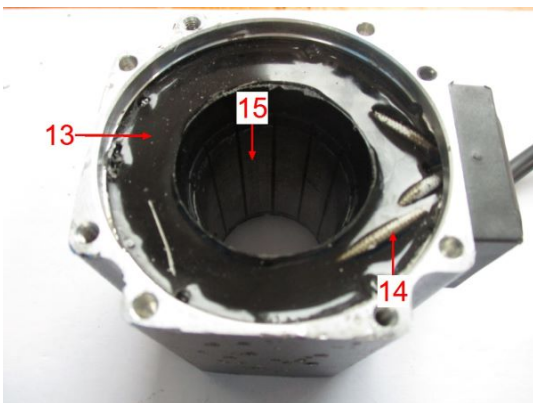
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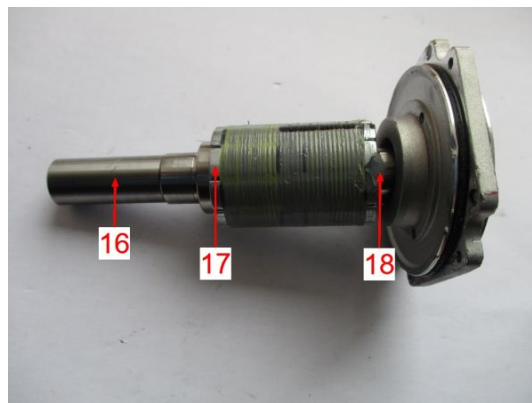
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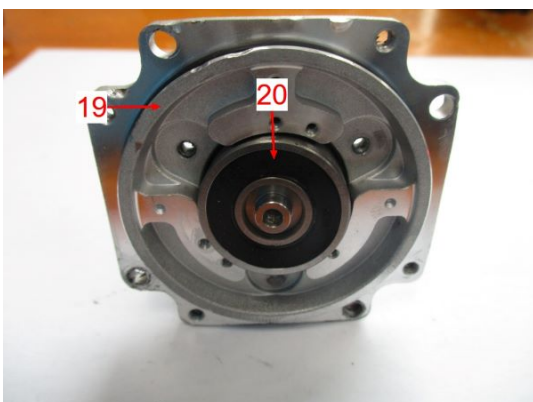
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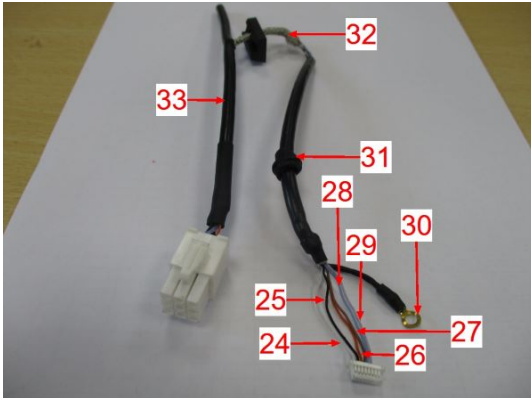


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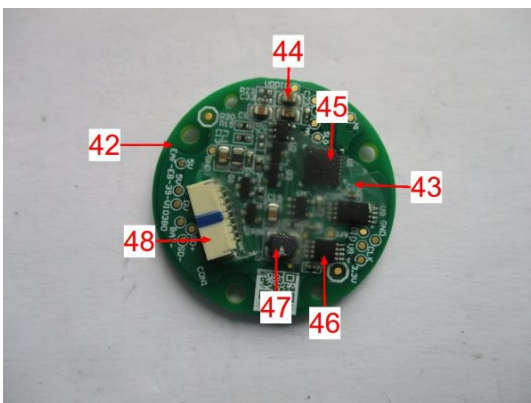
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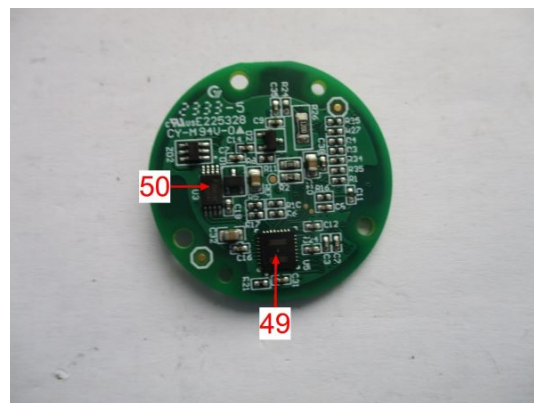
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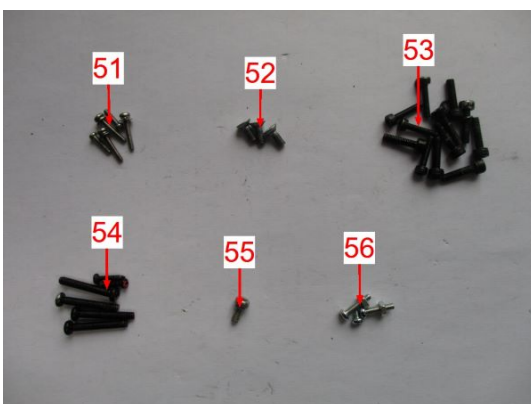
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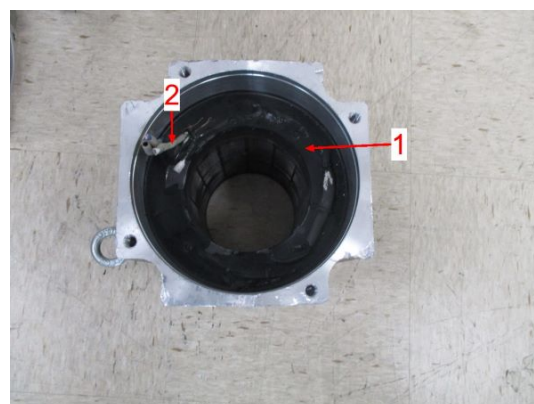
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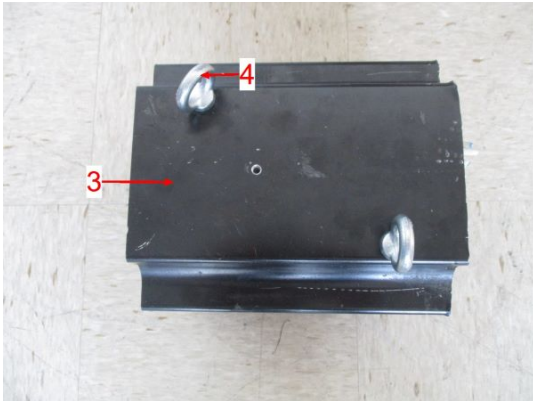


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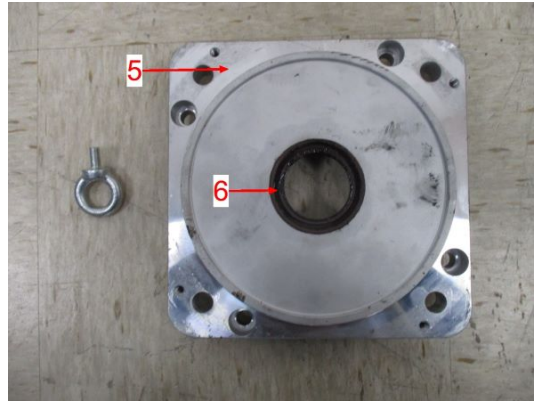


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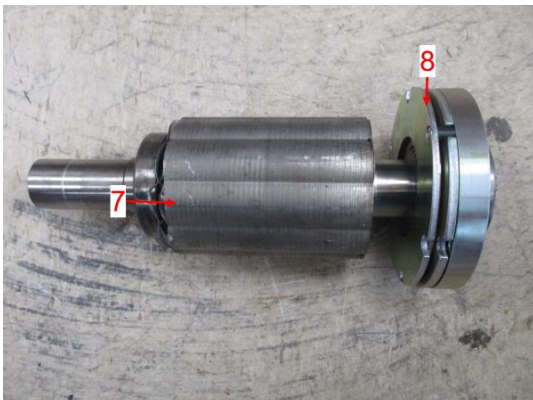
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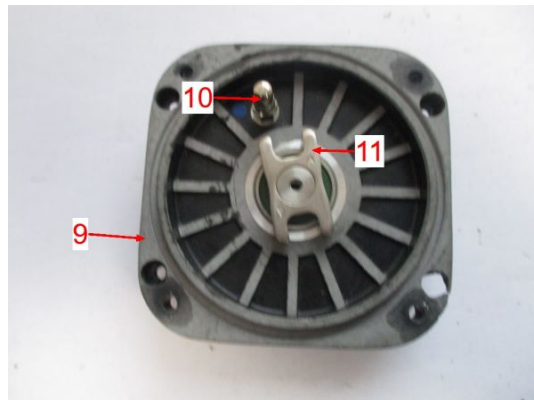
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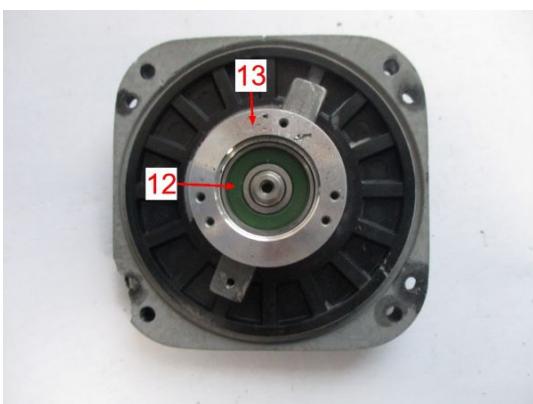
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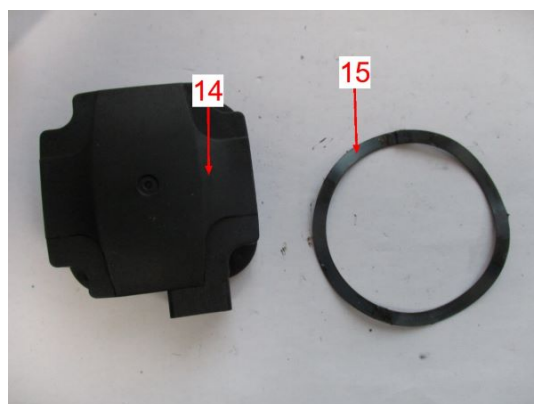
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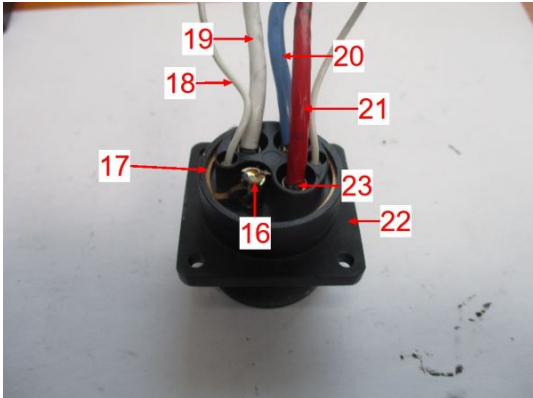


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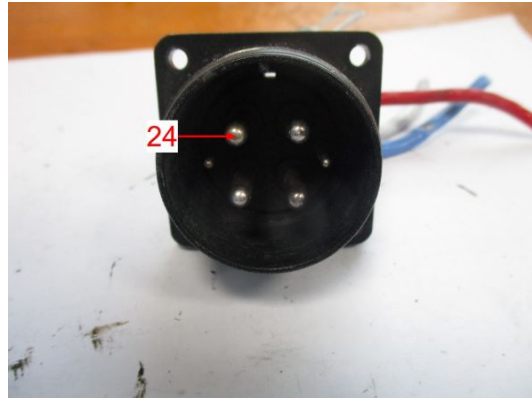


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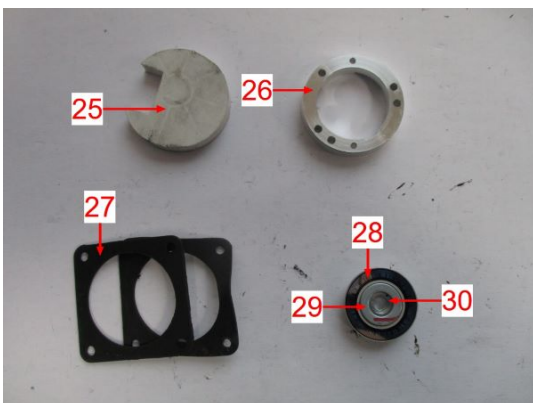
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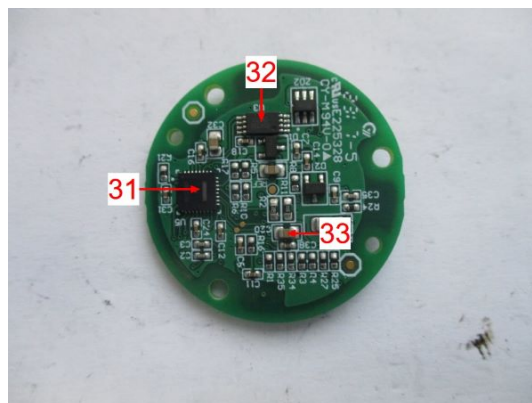
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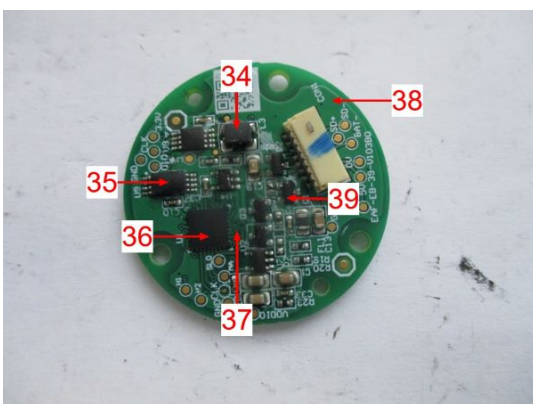
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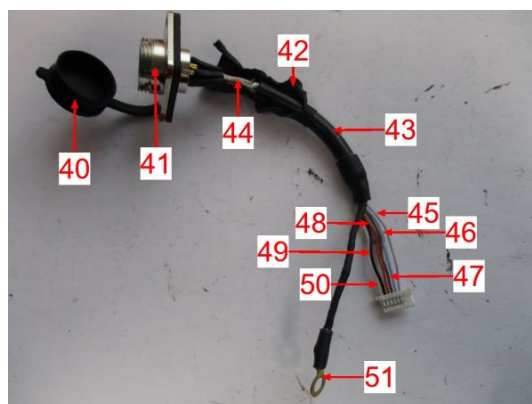
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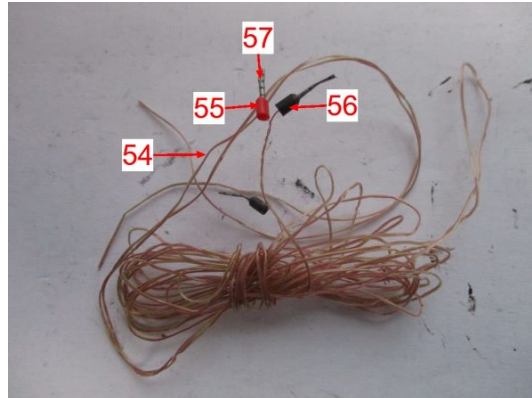


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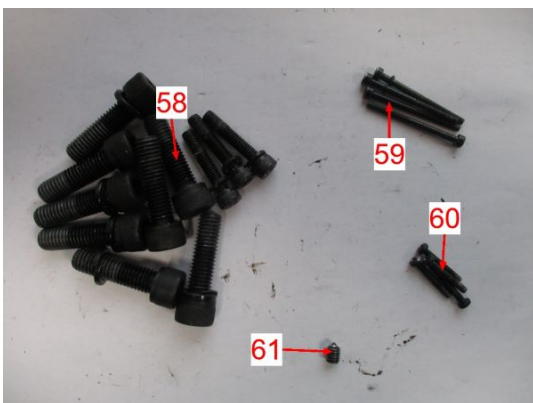
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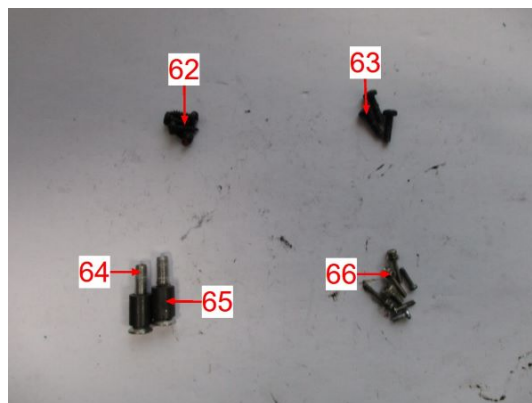
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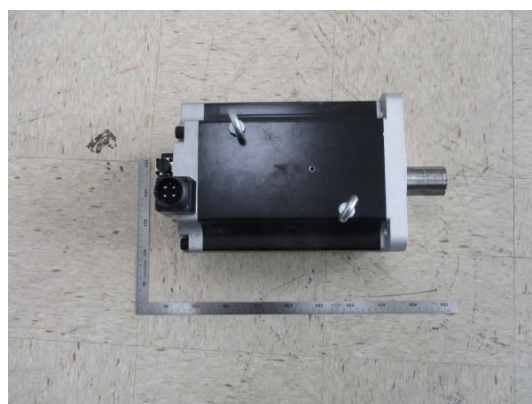
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- END -

General Terms and Conditions of Business of TÜV Rheinland in Greater China

1. Scope
These General Terms and Conditions of Business of TÜV Rheinland in Greater China ("GTBCB") shall be made between one or more members and one or more companies in Greater China as applicable as the case may be ("TÜV Rheinland"). The Greater China hereof refers to the regions within the territories of China. The client hereby includes:

- (i) a natural person capable to form legally binding contracts under the applicable laws who concludes the contract for the purpose of the daily use;
- (ii) the incorporated or unincorporated entity duly organized, validly existing and capable to form legally binding contracts under the applicable law.

The following terms and conditions apply to agreed services including consultancy services, information, deliveries and similar services as well as ancillary services and other secondary obligations provided within the scope of contract performance.

Any standard terms and conditions of the client of any nature shall not apply and shall hereby be expressly excluded. No standard contractual terms and conditions of the client shall form part of the contract even if TÜV Rheinland does not explicitly object to them.

In the context of an ongoing business relationship with the client, this GTBCB shall also apply to future contracts with the client without TÜV Rheinland having to refer to them separately in each individual case.

2. Quotations

Unless otherwise agreed, all quotations submitted by TÜV Rheinland can be changed by TÜV Rheinland without notice prior to its acceptance and confirmation by the other party.

3. Coming into effect and duration of contracts

The contract shall come into effect for the agreed terms upon the quotation letter of TÜV Rheinland or a separate contractual document being signed by both contracting parties, or upon the request requested by the client being carried out by TÜV Rheinland. If the client instructs TÜV Rheinland without receiving a quotation from TÜV Rheinland (quotation), TÜV Rheinland is, in its sole discretion, entitled to accept the order by giving written notice of such acceptance (including notice sent via electronic means) or by performing the requested services.

The contract term starts upon the coming into effect of the contract in accordance with article 3.1 and shall continue for the term agreed in the contract.

If the contract provides for an extension of the contract term, the contract term will be extended by the term provided in the contract where such extension is written by both parties with a three-month notice prior to the end of the contractual term.

4. Scope of services

The scope and type of the services to be provided by TÜV Rheinland shall be specified in the contractually agreed service scope of TÜV Rheinland by both parties. If no such separate service scope of TÜV Rheinland exists, then the written confirmation of order by TÜV Rheinland shall be decisive for the service to be provided. Unless otherwise agreed, services beyond the scope of the service description (e.g. checking of the construction of parts, products, processes, installations, organizations not listed in the service description, as well as the intended use and application of such) are not owed. In particular, no responsibility is assumed for the design, selection of materials, construction or intended use of an examined part, product, process or plant, unless this is expressly stated in the order.

The agreed services shall be performed in compliance with the regulations in force at the time the contract is entered into. TÜV Rheinland is entitled to determine, in its sole discretion, the method and nature of the assessment unless otherwise agreed in writing or if mandatory provisions require a specific procedure to be followed.

On execution of the work there shall be no simultaneous assumption of any guarantee of the correctness (proper quality) and working order of either tested or examined parts nor of the installation as a whole or the upstream and/or downstream processes, organizations, use and application in accordance with regulations, nor of the systems on which the installation is based. In particular, TÜV Rheinland shall assume no responsibility for the construction, selection of materials and assembly of installations examined by TÜV Rheinland. TÜV Rheinland is not responsible with regulations, unless these questions are expressly covered by the contract.

In the case of inspection work, TÜV Rheinland shall not be responsible for the accuracy or checking of the safety programmes or safety regulations on which the inspections are based, unless otherwise expressly agreed in writing or if mandatory provisions require a specific procedure to be followed.

If mandatory legal regulations and standards or official requirements for the agreed service scope change after conclusion of the contract, with a written notice to the client, TÜV Rheinland shall be entitled to additional remuneration for resulting additional expenses.

The services to be provided by TÜV Rheinland under the contract are agreed exclusively with the client. A contract of third parties with the services of TÜV Rheinland, as well as making available of and justifying confidence in the work results (test reports, test results, expert reports, etc.) are not part of the agreed services. This also applies if the client passes on work results - in full or in extracts - to third parties in accordance with clause 11.4.

The client understands and agrees to perform the contract with TÜV Rheinland, the client may need to sign one or more contractual agreements with all more third party(ies) and establish legal relationships with those third party(ies) according to such contractual agreements. TÜV Rheinland shall not be responsible for the consequences of legal liability according to this contract and the direct services actually to be provided by our company in the service process. If the relevant services are not directly provided by TÜV Rheinland (including but not limited to any testing and certification services to be provided by third parties, test and certification services), TÜV Rheinland will provide the client as agent for such relevant services. In order to achieve the purpose of the contract, the client hereby agrees that TÜV Rheinland (including but not limited to a third party) to party undertake all necessary responsibilities, including but not limited to responsibility and/or risk for any services to be provided by any third parties (including but not limited to the testing and/or certification services to be entrusted and/or applied for by our company on behalf of the client or other testing and/or certification bodies, agency services provided by any other third party(ies), etc.). Besides, the client shall be liable in accordance with the relevant laws and regulations and/or the terms under the contract. If the client is required to provide any annual renewal/validity of the relevant services, TÜV Rheinland shall be responsible and pay additional fees in accordance with the relevant laws and regulations or the testing and certification rules, such fees are not within the scope of the contract price, the client shall timely perform the obligation to pay the relevant fees to the relevant bodies, agencies, etc.

If the client fails to perform such obligations of the annual renewal/surveillance or fees payment, it may lead to adverse consequences such as failure of the surveillance/invalidity of testing and/or certification results, which shall not be borne by TÜV Rheinland. The client shall be responsible for any problems during such delivery and the transportation process (including but not limited to any loss or damages of the samples and/or the materials, etc.). Besides, the relevant freight fees shall be borne by the client.

5. Performance period/dates
The contractually agreed period/dates of performance are based on estimates of the work involved which are prepared in line with the details provided by the client. They shall only be binding if being consistent as binding by TÜV Rheinland in writing.

If binding periods of performance have been agreed, these periods shall not commence until the client has submitted all required documents to TÜV Rheinland.

Articles 5.1 and 5.2 shall apply, even without express agreement by the client, to all extensions of agreed period/dates of performance not caused by TÜV Rheinland.

TÜV Rheinland is not responsible for a delay in performance, in particular if the client has not fulfilled his or her obligations in accordance with clause 1.1 and has not done so in time and, in particular, has not provided TÜV Rheinland with all documents and information required for the performance of the service as specified in the contract.

If the performance of TÜV Rheinland is delayed due to unforeseeable circumstances such as force majeure, strikes, business disruptions, governmental regulations, transport obstacles, etc., TÜV Rheinland is entitled to postpone performance for a reasonable period of time which corresponds at least to the duration of the hindrance plus any time period which may be required to resume performance.

If the client is obliged to comply with legal, officially prescribed and/or by the accreditator prescribed deadlines, it is the client's responsibility to ensure that the deadline is not violated, in particular, which enables the client to comply with the legal and/or officially prescribed deadlines. TÜV Rheinland assumes no responsibility in this respect unless TÜV Rheinland expressly agreed in writing specifically stating that ensuring the deadlines is the contractual obligation of TÜV Rheinland.

6. The client's obligation to cooperate

The client shall guarantee that all cooperation required on its part, its agents or third parties will be provided in good time and at no cost to TÜV Rheinland.

Design documents, supplies, auxiliary staff, etc. necessary for performance of the services shall be made available free of charge by the client. Moreover, collaborative action of the client must be undertaken in accordance with legal provisions, standards, safety regulations and accident prevention instructions. And the client represents and warrants that:

- a) it has required statutory qualifications;
- b) the product, service or management system to be certified complies with applicable laws and regulations; and
- c) it doesn't have any legal and dishonest behaviours or is not included in the list of Enterprises with Serious Illegal and Dishonest Acts of People's Republic of China.

If the client breaches the aforesaid representations and warranties, TÜV Rheinland is entitled to i) immediately terminate the contract/order without prior notice; and ii) withdraw the issued testing report/certificates if any.

The client shall bear any additional cost incurred on account of work having to be redone or being delayed as a result of late, incorrect or incomplete information provided by or lack of proper cooperation from the client. Even where a fixed or maximum price is agreed, TÜV Rheinland shall be entitled to charge extra fees for such additional expense.

7. Prices

If the scope of performance is not laid down in writing when the order is placed, invoicing shall be based on costs actually incurred. If no price is agreed in writing, invoicing shall be based on the price list of TÜV Rheinland valid at the time of performance.

Unless otherwise agreed, work orders shall be issued by the client and shall be valid for the work. If the execution of an order extends over more than one month and the value of the contract or the agreed fixed price exceeds €2,500.00 or equivalent value in local currency, TÜV Rheinland may demand payments on account or in instalments.

8. Payment terms

All invoice amounts shall be due for payment within 30 days of the invoice date without deduction on receipt of the invoice. No discounts and rebates shall be granted.

Payments shall be made to the bank account of TÜV Rheinland as indicated on the invoice, stating the invoice and client numbers.

In cases of default of payment, TÜV Rheinland shall be entitled to claim default interest at the applicable short term interest rate publicly announced by a reputable commercial bank in the country where TÜV Rheinland is located. At the same time, TÜV Rheinland reserves the right to claim further damages.

Should the client default in payment of the invoice despite being granted a reasonable grace period, TÜV Rheinland shall be entitled to cancel the contract, withdraw the certificate, claim damages for non-performance and refuse to continue performance of the contract.

The provisions set forth in article 8.4 shall also apply in cases involving returned cheques, cessation of payment, commencement of insolvency proceedings against the client's assets or cases in which the commencement of insolvency proceedings has been dismissed due to lack of assets.

Objections to the invoices of TÜV Rheinland shall be submitted in writing within two weeks of receipt of the invoice.

April 2024

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Version 6.0/April 2024

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In cases of default of payment, TÜV Rheinland shall be entitled to claim default interest at the applicable short term interest rate publicly announced by a reputable commercial bank in the country where TÜV Rheinland is located. At the same time, TÜV Rheinland reserves the right to claim further damages.

Should the client default in payment of the invoice despite being granted a reasonable grace period, TÜV Rheinland shall be entitled to cancel the contract, withdraw the certificate, claim damages for non-performance and refuse to continue performance of the contract.

The provisions set forth in article 8.4 shall also apply in cases involving returned cheques, cessation of payment, commencement of insolvency proceedings against the client's assets or cases in which the commencement of insolvency proceedings has been dismissed due to lack of assets.

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