Check Measurement

DUT No.	Range No.	10	10	9	8	7	6	5	4	3		
	Temp. [°C]	-40 °C	-33 °C	-25 °C	-15 °C	0 °C	25 °C	50 °C	70 °C	90 °C		
Muster 2.3		0.526	0.715	0.817	0.880	0.905	0.903	0.908	0.891	0.907		
Muster 2.4		0.709	0.850	0.910	0.924	0.970	0.945	0.935	0.920	0.910		
Average Torque [Nm]		0.6175	0.7825	0.8635	0.9020	0.9375	0.9240	0.9215	0.9055	0.9085		
Block Current [mA]		250	250	250	250	250	250	250	250	250		
Tabw.max.pos [Nm]		0.09	0.07	0.05	0.02	0.03	0.02	0.01	0.01	0.00		
Tabw.max.neg [Nm]		0.09	0.07	0.05	0.02	0.03	0.02	0.01	0.01	0.00		

Basic Data

DUT Type:	Muster Federrotor 2-Blatt-Feder
Drw.-No.:	
Softwareno.:	131699900011_PA2425_Audi_CBEV_102556

Set Values

Voltage [V]:	13.5
$T_{Blockrated}$ [Nm]:	
$T_{Blockmax}$ [Nm]:	
$T_{Blockmin}$ [Nm]:	
Speed [rpm]:	15

Legend: ■ Average Torque [Nm] — TBlockrated [Nm]: — TBlockmax [Nm]: — TBlockmin [Nm]: ◆ Block Current [mA]

Remarks/Comments

Measurements were done at a torque gradient of about 1.8 Nm/90°.

Check Measurement

DUT No.	Range No.	10	10	9	8	7	6	5	4	3		
	Temp. [°C]	-40 °C	-33 °C	-25 °C	-15 °C	0 °C	25 °C	50 °C	70 °C	90 °C		
Muster 2.3		0.743	0.952	1.032	1.063	1.057	1.094	1.082	1.085	1.068		
Muster 2.4		0.944	1.068	1.122	1.129	1.153	1.165	1.153	1.085	1.118		
Average Torque [Nm]		0.8435	1.0100	1.0770	1.0960	1.1050	1.1295	1.1175	1.0850	1.0930		
Block Current [mA]		300	300	300	300	300	300	300	300	300		
Tabw.max.pos [Nm]		0.10	0.06	0.05	0.03	0.05	0.04	0.04	0.00	0.03		
Tabw.max.neg [Nm]		0.10	0.06	0.04	0.03	0.05	0.04	0.04	0.00	0.02		

Basic Data

DUT Type:	Muster Federrotor 2-Blatt-Feder
Drw.-No.:	
Softwareno.:	131699900011_PA2425_Audi_CBEV_102556

Set Values

Voltage [V]:	13.5
$T_{Blockrated}$ [Nm]:	
$T_{Blockmax}$ [Nm]:	
$T_{Blockmin}$ [Nm]:	
Speed [rpm]:	15

Remarks/Comments

Measurements were done at a torque gradient of about 1.8 Nm/90°.

Check Measurement

DUT No.	Range No.	10	10	9	8	7	6	5	4	3		
	Temp. [°C]	-40 °C	-33 °C	-25 °C	-15 °C	0 °C	25 °C	50 °C	70 °C	90 °C		
Muster 2.3		0.948	1.137	1.225	1.268	1.278	1.340	1.296	1.297	1.234		
Muster 2.4		1.126	1.271	1.317	1.338	1.363	1.364	1.333	1.327	1.324		
Average Torque [Nm]		1.0370	1.2040	1.2710	1.3030	1.3205	1.3520	1.3145	1.3120	1.2790		
Block Current [mA]		350	350	350	350	350	350	350	350	350		
Tabw.max.pos [Nm]		0.09	0.07	0.05	0.04	0.04	0.01	0.02	0.02	0.05		
Tabw.max.neg [Nm]		0.09	0.07	0.05	0.03	0.04	0.01	0.02	0.01	0.04		

Basic Data

DUT Type:	Muster Federrotor 2-Blatt-Feder
Drw.-No.:	
Softwareno.:	131699900011_PA2425_Audi_CBEV_102556

Set Values

Voltage [V]:	13.5
$T_{Blockrated}$ [Nm]:	
$T_{Blockmax}$ [Nm]:	
$T_{Blockmin}$ [Nm]:	
Speed [rpm]:	15

Remarks/Comments

Measurements were done at a torque gradient of about 1.8 Nm/90°.

Check Measurement

DUT No.	Range No.	10	10	9	8	7	6	5	4	3		
	Temp. [°C]	-40 °C	-33 °C	-25 °C	-15 °C	0 °C	25 °C	50 °C	70 °C	90 °C		
Muster 2.3		1.165	1.359	1.410	1.437	1.523	1.566	1.385	1.397	1.379		
Muster 2.4		1.358	1.429	1.521	1.537	1.585	1.587	1.548	1.534	1.537		
Average Torque [Nm]		1.2615	1.3940	1.4655	1.4870	1.5540	1.5765	1.4665	1.4655	1.4580		
Block Current [mA]		400	400	400	400	400	400	400	400	400		
Tabw.max.pos [Nm]		0.10	0.03	0.06	0.05	0.03	0.01	0.08	0.07	0.08		
Tabw.max.neg [Nm]		0.10	0.04	0.06	0.05	0.03	0.01	0.08	0.07	0.08		

Basic Data

DUT Type:	Muster Federrotor 2-Blatt-Feder
Drw.-No.:	
Softwareno.:	131699900011_PA2425_Audi_CBEV_102556

Set Values

Voltage [V]:	13.5
$T_{Blockrated}$ [Nm]:	
$T_{Blockmax}$ [Nm]:	
$T_{Blockmin}$ [Nm]:	
Speed [rpm]:	15

Remarks/Comments

Measurements were done at a torque gradient of about 1.8 Nm/90°.

Check Measurement

DUT No.	Range No.	10	10	9	8	7	6	5	4	3		
	Temp. [°C]	-40 °C	-33 °C	-25 °C	-15 °C	0 °C	25 °C	50 °C	70 °C	90 °C		
Muster 2.3		1.404	1.540	1.628	1.629	1.708	1.638	1.616	1.605	1.608		
Muster 2.4		1.568	1.649	1.680	1.698	1.775	1.843	1.646	1.617	1.617		
Average Torque [Nm]		1.4860	1.5945	1.6540	1.6635	1.7415	1.7405	1.6310	1.6110	1.6125		
Block Current [mA]		450	450	450	450	450	450	450	450	450		
Tabw.max.pos [Nm]		0.08	0.05	0.03	0.03	0.03	0.10	0.01	0.01	0.00		
Tabw.max.neg [Nm]		0.08	0.05	0.03	0.03	0.03	0.10	0.01	0.01	0.00		

Basic Data

DUT Type:	Muster Federrotor 2-Blatt-Feder
Drw.-No.:	
Softwareno.:	131699900011_PA2425_Audi_CBEV_102556

Set Values

Voltage [V]:	13.5
$T_{Blockrated}$ [Nm]:	
$T_{Blockmax}$ [Nm]:	
$T_{Blockmin}$ [Nm]:	
Speed [rpm]:	15

Remarks/Comments

Measurements were done at a torque gradient of about 1.8 Nm/90°.

Check Measurement

DUT No.	Range No.	10	10	9	8	7	6	5	4	3		
	Temp. [°C]	-40 °C	-33 °C	-25 °C	-15 °C	0 °C	25 °C	50 °C	70 °C	90 °C		
Muster 2.3		1.560	1.665	1.803	1.820	1.976	1.896	1.850	1.840	1.809		
Muster 2.4		1.677	1.853	1.882	1.886	1.996	1.895	1.851	1.840	1.820		
Average Torque [Nm]		1.6185	1.7590	1.8425	1.8530	1.9860	1.8955	1.8505	1.8400	1.8145		
Block Current [mA]		500	500	500	500	500	500	500	500	500		
Tabw.max.pos [Nm]		0.06	0.09	0.04	0.03	0.01	0.00	0.00	0.00	0.01		
Tabw.max.neg [Nm]		0.06	0.09	0.04	0.03	0.01	0.00	0.00	0.00	0.01		

Basic Data

DUT Type:	Muster Federrotor 2-Blatt-Feder
Drw.-No.:	
Softwareno.:	131699900011_PA2425_Audi_CBEV_102556

Set Values

Voltage [V]:	13.5
$T_{Blockrated}$ [Nm]:	
$T_{Blockmax}$ [Nm]:	
$T_{Blockmin}$ [Nm]:	
Speed [rpm]:	15

Remarks/Comments

Measurements were done at a torque gradient of about 1.8 Nm/90°.

Range No.	10	10	9	8	7	6	5	4	3		
Temp. [°C]	-40 °C	-33 °C	-25 °C	-15 °C	0 °C	25 °C	50 °C	70 °C	90 °C		

Data Set 1

Average Torque [Nm]	0.6175	0.7825	0.8635	0.9020	0.9375	0.9240	0.9215	0.9055	0.9085	
Block Current [mA]	250	250	250	250	250	250	250	250	250	

Data Set 2

Average Torque [Nm]	0.8435	1.0100	1.0770	1.0960	1.1050	1.1295	1.1175	1.0850	1.0930	
Block Current [mA]	300	300	300	300	300	300	300	300	300	

Data Set 3

Average Torque [Nm]	1.0370	1.2040	1.2710	1.3030	1.3205	1.3520	1.3145	1.3120	1.2790	
Block Current [mA]	350	350	350	350	350	350	350	350	350	

Data Set 4

Average Torque [Nm]	1.2615	1.3940	1.4655	1.4870	1.5540	1.5765	1.4665	1.4655	1.4580	
Block Current [mA]	400	400	400	400	400	400	400	400	400	

Data Set 5

Average Torque [Nm]	1.4860	1.5945	1.6540	1.6635	1.7415	1.7405	1.6310	1.6110	1.6125	
Block Current [mA]	450	450	450	450	450	450	450	450	450	

Data Set 6

Average Torque [Nm]	1.6185	1.7590	1.8425	1.8530	1.9860	1.8955	1.8505	1.8400	1.8145	
Block Current [mA]	500	500	500	500	500	500	500	500	500	

Average Torque [Nm]										
Block Current [mA]										

Average Torque [Nm]										
Block Current [mA]										

Average Torque [Nm]										
Block Current [mA]										

Basic Data

DUT Type:	Muster Federrotor 2-Blatt-Feder
Drw.-No.:	
Softwareno.:	131699900011_PA2425_Audi_CBEV_102556

Set Values

Voltage [V]:	13.5
Speed [rpm]:	15

New Characteristic Diagram

New Torque [Nm]: 1.5

Manual Correction

Range No.	I_{Block} [mA]	T [Nm]	I_{Block} [mA]
3	414		
4	412		
5	410		
6	382		
7	388		
8	404		
9	410		
10	440		

(only if needed)

Remarks/Comments

The measurements were done with only two DUTs, so the results must be seen as rought trend.

For valid results the measurements should be repeated with a larger number of DUTs.

Range No.	10	10	9	8	7	6	5	4	3		
Temp. [°C]	-40 °C	-33 °C	-25 °C	-15 °C	0 °C	25 °C	50 °C	70 °C	90 °C		

Data Set 1

Average Torque [Nm]	0.6175	0.7825	0.8635	0.9020	0.9375	0.9240	0.9215	0.9055	0.9085		
Block Current [mA]	250	250	250	250	250	250	250	250	250		

Data Set 2

Average Torque [Nm]	0.8435	1.0100	1.0770	1.0960	1.1050	1.1295	1.1175	1.0850	1.0930		
Block Current [mA]	300	300	300	300	300	300	300	300	300		

Data Set 3

Average Torque [Nm]	1.0370	1.2040	1.2710	1.3030	1.3205	1.3520	1.3145	1.3120	1.2790		
Block Current [mA]	350	350	350	350	350	350	350	350	350		

Data Set 4

Average Torque [Nm]	1.2615	1.3940	1.4655	1.4870	1.5540	1.5765	1.4665	1.4655	1.4580		
Block Current [mA]	400	400	400	400	400	400	400	400	400		

Data Set 5

Average Torque [Nm]	1.4860	1.5945	1.6540	1.6635	1.7415	1.7405	1.6310	1.6110	1.6125		
Block Current [mA]	450	450	450	450	450	450	450	450	450		

Data Set 6

Average Torque [Nm]	1.6185	1.7590	1.8425	1.8530	1.9860	1.8955	1.8505	1.8400	1.8145		
Block Current [mA]	500	500	500	500	500	500	500	500	500		

Average Torque [Nm]											
Block Current [mA]											

Average Torque [Nm]											
Block Current [mA]											

Average Torque [Nm]											
Block Current [mA]											

Basic Data

DUT Type:	Muster Federrotor 2-Blatt-Feder
Drw.-No.:	
Softwareno.:	131699900011_PA2425_Audi_CBEV_102556

Set Values

Voltage [V]:	13.5
Speed [rpm]:	15

New Characteristic Diagram

New Torque [Nm]: 1.8

Manual Correction

Range No.	I_{Block} [mA]	T [Nm]	I_{Block} [mA]
3	496		
4	492		
5	488		
6	470		
7	462		
8	486		
9	488		
10	540		

(only if needed)

Remarks/Comments

The measurements were done with only two DUTs, so the results must be seen as rought trend.

For valid results the measurements should be repeated with a larger number of DUTs.