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Description:		Product description	
Phase Shifter w. Permanent magnets		**Phase Shifter - Main Assembly**	
Order No.:	Customer:	Part/Drawing No.:	Serial No.:
504313	**SLAC**	**7103050653**	**2410087**

To be carried out after assembly

No.	Description	Test equipment	Result	Criteria / Tolerance	Comments	Accepted	Sign/Date
1	**Document information** **Template: Test_504313_PhaseShifter.A**						
	Author:	N/A	OK			OK	27/02/2024 DANA
	Reviewer:	N/A	OK			OK	04/03-2024 EBCH
2	**Visual Inspection according to main drawing**						
3	**Magnet Arrays:**						
4	**Torque wrench check for magnet assembly** **According to drawing: 7103050655 & 7103050656**						
	Verify torque wrench setting at torque transducer	2361-D	5	5Nm ±0,3Nm	Torque Transducer.	OK	04/11/2024 bgr
	Tightening torque for 10 x M5 bolts	N/A	OK	10 x M5 bolts fastened		OK	04/11/2024 bgr

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5	**Magnet array (Upper) Numbers Only note (xxx) See dwg. 7103050656**						
	SXRHE-VS(xxx) N	N/A	088			OK	04/11/2024 bgr
	SXRHE-HS(xxx) ↑	N/A	029			OK	04/11/2024 bgr
	SXRHE-VL(xxx) S	N/A	117			OK	04/11/2024 bgr
	SXRHE-HL(xxx) ↓	N/A	013			OK	04/11/2024 bgr
	SXRHE-VL(xxx) N	N/A	086			OK	04/11/2024 bgr
	SXRHE-HS(xxx) ↑	N/A	092			OK	04/11/2024 bgr
	SXRHE-VS(xxx) S	N/A	127			OK	04/11/2024 bgr
6	**Magnet array (Lower) Numbers Only note (xxx) See dwg. 7103050655**						

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To be carried out after assembly

No.	Description	Test equipment	Result	Criteria / Tolerance	Comments	Accepted	Sign/Date
	SXRHE-VS(xxx) N	N/A	075			OK	04/11/2024 bgr
	SXRHE-HS(xxx) ↑	N/A	084			OK	04/11/2024 bgr
	SXRHE-VL(xxx) S	N/A	070			OK	04/11/2024 bgr
	SXRHE-HL(xxx) ↓	N/A	025			OK	04/11/2024 bgr
	SXRHE-VL(xxx) N	N/A	019			OK	04/11/2024 bgr
	SXRHE-HS(xxx) ↑	N/A	094			OK	04/11/2024 bgr
	SXRHE-VS(xxx) S	N/A	078			OK	04/11/2024 bgr
7	**Mechanical test: Without magnets**						

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Phase Shifter w. Permanent magnets		**Phase Shifter - Main Assembly**	
Order No.:	Customer:	Part/Drawing No.:	Serial No.:
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To be carried out after assembly

No.	Description	Test equipment	Result	Criteria / Tolerance	Comments	Accepted	Sign/Date
8	**Measure the parallelism of each girder by measuring the distance in 6 points (10mm from transverse edges (Z=±35mm), 10mm (X=-59mm), 69mm (X=0) and 100mm (X=31) from longitudinal edge). Enter the measured values. Measure at 3 gaps, 10mm (121mm without magnets), 50mm (161mm without magnets) and 100mm (211mm without magnets). Illustration can be found in "504313_ReferenceDoc"**						
	Z=-35, X=-59 at 121mm gap	2138-D	121.01	121mm ±0,1mm	Gauge Blocks	OK	18/06/2024 MMOL
	Z=-35, X=0 at 121mm gap	2138-D	121.00	121mm ±0,1mm	Gauge Blocks	OK	18/06/2024 MMOL
	Z=-35, X=31 at 121mm gap	2138-D	121.00	121mm ±0,1mm	Gauge Blocks	OK	18/06/2024 MMOL
	Z=35, X=-59 at 121mm gap	2138-D	120.95	121mm ±0,1mm	Gauge Blocks	OK	18/06/2024 MMOL
	Z=35, X=0 at 121mm gap	2138-D	120.95	121mm ±0,1mm	Gauge Blocks	OK	18/06/2024 MMOL

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Phase Shifter w. Permanent magnets		**Phase Shifter - Main Assembly**	
Order No.:	Customer:	Part/Drawing No.:	Serial No.:
504313	**SLAC**	**7103050653**	**2410087**

To be carried out after assembly

No.	Description	Test equipment	Result	Criteria / Tolerance	Comments	Accepted	Sign/Date
	Z=35, X=31 at 121mm gap	2138-D	120.95	121mm ±0,1mm	Gauge Blocks	OK	18/06/2024 MMOL
	Deviation max-min at 121mm:	Calculated	0.06	<0,1 mm		OK	18/06/2024 MMOL
	Z=-35, X=-59 at 161mm gap	2138-D	161.05	161mm±0,1mm	Gauge Blocks	OK	18/06/2024 MMOL
	Z=-35, X=0 at 161mm gap	2138-D	161.05	161mm±0,1mm	Gauge Blocks	OK	18/06/2024 MMOL
	Z=-35, X=31 at 161mm gap	2138-D	161.03	161mm±0,1mm	Gauge Blocks	OK	18/06/2024 MMOL
	Z=35, X=-59 at 161mm gap	2138-D	160.97	161mm±0,1mm	Gauge Blocks	OK	18/06/2024 MMOL
	Z=35, X=0 at 161mm gap	2138-D	160.97	161mm±0,1mm	Gauge Blocks	OK	18/06/2024 MMOL
	Z=35, X=31 at 161mm gap	2138-D	160.97	161mm±0,1mm	Gauge Blocks	OK	18/06/2024 MMOL
	Deviation max-min at 161mm:	Calculated	0.08	<0,1 mm		OK	18/06/2024 MMOL
	Z=-35, X=-59 at 211mm gap	2138-D	211.04	211mm±0,1mm	Gauge Blocks	OK	18/06/2024 MMOL
	Z=-35, X=0 at 211mm gap	2138-D	211.04	211mm±0,1mm	Gauge Blocks	OK	18/06/2024 MMOL

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Description:		Product description	
Phase Shifter w. Permanent magnets		**Phase Shifter - Main Assembly**	
Order No.:	Customer:	Part/Drawing No.:	Serial No.:
504313	**SLAC**	**7103050653**	**2410087**

To be carried out after assembly

No.	Description	Test equipment	Result	Criteria / Tolerance	Comments	Accepted	Sign/Date
	Z=-35, X=31 at 211mm gap	2138-D	211.03	211mm±0,1mm	Gauge Blocks	OK	18/06/2024 MMOL
	Z=35, X=-59 at 211mm gap	2138-D	210.96	211mm±0,1mm	Gauge Blocks	OK	18/06/2024 MMOL
	Z=35, X=0 at 211mm gap	2138-D	210.95	211mm±0,1mm	Gauge Blocks	OK	18/06/2024 MMOL
	Z=35, X=31 at 211mm gap	2138-D	210.95	211mm±0,1mm	Gauge Blocks	OK	18/06/2024 MMOL
	Deviation max-min at 211mm:	Calculated	0.09	<0,1 mm		OK	18/06/2024 MMOL
9	**Measure the distance between the lower girder and top of base plate. Illustration can be found in "504313_ReferenceDoc"**						
	Gap set to 121mm	2138-D	121.00	121mm ±0,1mm	Gauge Blocks	OK	18/06/2024 MMOL
	Position of lower girder	2138-D	162.5	162,5±1	Gauge Blocks	OK	18/06/2024 MMOL
10	**Mechanical test: With magnets**						

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Phase Shifter w. Permanent magnets		**Phase Shifter - Main Assembly**	
Order No.:	Customer:	Part/Drawing No.:	Serial No.:
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To be carried out after assembly

No.	Description	Test equipment	Result	Criteria / Tolerance	Comments	Accepted	Sign/Date
11	**Adjust the gap to 10mm. Draw a 10mm ceramic block through the magnet gap and check that it can be pulled through the entire gap.**						
	10mm ceramic block pulled through gap	2238-D	OK		Function / Arbitrary Waveform Generator	OK	07/08/2024 CSOJ
	Set offset parameters in motor and encoder software.	N/A	20.04770	Encoder raw Value		OK	07/08/2024 CSOJ
12	**Set the gap to 100mm as indicated by the motor. Draw a 100.00 mm ceramic block through the magnet gap and check that it can be pulled through the entire gap.**						
	100,00mm ceramic block pulled through gap	2238-D	OK		Function / Arbitrary Waveform Generator	OK	07/08/2024 CSOJ

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Phase Shifter w. Permanent magnets		**Phase Shifter - Main Assembly**	
Order No.:	Customer:	Part/Drawing No.:	Serial No.:
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To be carried out after assembly

No.	Description	Test equipment	Result	Criteria / Tolerance	Comments	Accepted	Sign/Date
13	**Set the gap to 10mm. Open the gap to 15mm. Reset a dial gauge installed between the girders to zero. Close the gap to 10mm. Open the gap to 15mm and read the dial gauge. Repeat the measurements 3 times.**						
	Initial dial setting	2238-D	15.002	15mm ±0,005mm	Function / Arbitrary Waveform Generator	OK	07/08/2024 CSOJ
	Measurement 1	2291-D	15.000	15mm ±0,007mm	Dial Indicator	OK	07/08/2024 CSOJ
	Measurement 2	2291-D	15.000	15mm ±0,007mm	Dial Indicator	OK	07/08/2024 CSOJ
	Measurement 3	2291-D	15.001	15mm ±0,007mm	Dial Indicator	OK	07/08/2024 CSOJ
	Max deviation	Calculated	0.002	<0,002mm		OK	07/08/2024 CSOJ

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Phase Shifter w. Permanent magnets		**Phase Shifter - Main Assembly**	
Order No.:	Customer:	Part/Drawing No.:	Serial No.:
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To be carried out after assembly

No.	Description	Test equipment	Result	Criteria / Tolerance	Comments	Accepted	Sign/Date
14	**Set the gap to 15mm. Close the gap to 10mm. Reset a dial gauge installed between the girders to zero. Open the gap to 15mm. Close the gap to 10mm and read the dial gauge. Repeat the measurements 3 times.**						
	Initial dial setting	2238-D	10.002	10mm ±0,005mm	Function / Arbitrary Waveform Generator	OK	07/08/2024 CSOJ
	Measurement 1	2291-D	10.002	10mm ±0,007mm	Dial Indicator	OK	07/08/2024 CSOJ
	Measurement 2	2291-D	10.003	10mm ±0,007mm	Dial Indicator	OK	07/08/2024 CSOJ
	Measurement 3	2291-D	10.003	10mm ±0,007mm	Dial Indicator	OK	07/08/2024 CSOJ
	Max deviation	Calculated	0.001	<0,002mm		OK	07/08/2024 CSOJ
15	**Mechanical test: Stop and switch settings**						

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To be carried out after assembly

No.	Description	Test equipment	Result	Criteria / Tolerance	Comments	Accepted	Sign/Date
16	**Attempt to bring to Hard stop settings as close to 9.8/102,2mm as possible to increase adjustment range for limit and power switches.**						
	Hard stop setting closed gap Set the gap to 9.84 ± 0.04 mm and adjust the Hard stop to reach the upper girder	2238-D	OK		Function / Arbitrary Waveform Generator	OK	07/08/2024 CSOJ
	Hard stop setting open gap Set the gap to 102.25 +0/-0.1 mm and adjust the Hard stop to reach the lower girder	2238-D	OK		Function / Arbitrary Waveform Generator	OK	07/08/2024 CSOJ
17	**Limit switch setting (encoder read gap where the switch activates) Motor speed 5mm/s Approach closed gap from gap position = 20mm**						
	The gap “in” limit switch	2238-D	9.97	9,97mm ±0,025mm	Function / Arbitrary Waveform Generator	OK	07/08/2024 CSOJ

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No.	Description	Test equipment	Result	Criteria / Tolerance	Comments	Accepted	Sign/Date
	Encoder	N/A	20.02315	Encoder raw value		OK	07/08/2024 CSOJ
	The gap “in” power switch	2238-D	9.915	9,915mm ±0,03mm	Function / Arbitrary Waveform Generator	OK	07/08/2024 CSOJ
	Encoder	N/A	19.9873	Encoder raw value		OK	07/08/2024 CSOJ
18	**Limit switch setting (encoder read gap where the switch activates) Motor speed 5mm/s Approach open gap from gap position = 90mm**						
	The “out” limit switch	2238-D	100.2	100,5mm ±0,5mm	Function / Arbitrary Waveform Generator	OK	07/08/2024 CSOJ
	Encoder	N/A	100.09835	Encoder raw value		OK	07/08/2024 CSOJ

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No.	Description	Test equipment	Result	Criteria / Tolerance	Comments	Accepted	Sign/Date
	The “out” power switch	2238-D	101.2	101,6mm ±0,5mm	Function / Arbitrary Waveform Generator	OK	07/08/2024 CSOJ
	Encoder	N/A	111.1979	Encoder raw value		OK	07/08/2024 CSOJ
19	**Brake test Set the gap to 10.5mm. Note the exact encoder reading. Turn off the power supply for the brake and the motor controller. Read the gap.**						
	Gap initial setting	2238-D	10.5	10,5mm ±0,05mm	Function / Arbitrary Waveform Generator	OK	07/08/2024 CSOJ
	Encoder	N/A	20.5444	Encoder raw value		OK	07/08/2024 CSOJ
	Gap after power off	N/A	10.5	10,5mm ±0,1mm		OK	07/10/2024 CSOJ
	Encoder	N/A	20.54435	Encoder raw value		OK	07/08/2024 CSOJ

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No.	Description	Test equipment	Result	Criteria / Tolerance	Comments	Accepted	Sign/Date
	Deviation of initial setting and after power off	Calculated	0.0	0mm ±0,05mm		OK	07/08/2024 CSOJ
20	**Open/close speed test. Measured in seconds First article only!**						
	Open to closed (40mm gap to 10mm gap)	N/A	6.5	<10s		OK	07/08/2024 CSOJ
	Closed to open (10mm gap to 40mm gap)	N/A	6.5	<10s		OK	07/08/2024 CSOJ
21	**Magnetic test See drawing 7103050653 for magnetic center**						
22	**Stretch wire measurement:**						

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To be carried out after assembly

No.	Description	Test equipment	Result	Criteria / Tolerance	Comments	Accepted	Sign/Date
	Stretch wire measurements at all gaps in x=-10 through x=10 in 2 mm steps. At all gaps shall both 1st and 2nd integral scans be performed Use seperate document for data logging, see "504313_ReferenceDoc" • 10 mm gap • 15 mm gap • 20 mm gap • 30 mm gap • 100,0 mm gap	N/A	OK	Stretchwire measurement completed		OK	10/09/2024 PMHA
23	**Hall probe measurements:**						

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To be carried out after assembly

No.	Description	Test equipment	Result	Criteria / Tolerance	Comments	Accepted	Sign/Date
	Hall probe measurements at intermediate gaps. Before and after each measurement series, reference magnetic field and magnet array temperature must be logged in order to perform temperature correction. 600 mm scans. Use seperate document for data logging, see "504313_ReferenceDoc" • 10 mm gap • 15 mm gap • 20 mm gap • 30 mm gap • 100,0 mm gap	N/A	OK	Hall probe gap measurement completed		OK	10/09/2024 PMHA

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To be carried out after assembly

No.	Description	Test equipment	Result	Criteria / Tolerance	Comments	Accepted	Sign/Date
	Hall probe Horizontal measurements. Before and after each measurement series, reference magnetic field and magnet array temperature must be logged in order to perform temperature correction. 600 mm scans. Use seperate document for data logging, see "504313_ReferenceDoc" • 10 mm gap (x=-2) • 10 mm gap (x=-1) • 10 mm gap (x=1) • 10 mm gap (x=2) • 30,0 mm gap (x=-2) • 30,0 mm gap (x=-1) • 30,0 mm gap (x=1) • 30,0 mm gap (x=2)	N/A	OK	Hall probe Horizontal measurement completed		OK	10/09/2024 PMHA

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To be carried out after assembly

No.	Description	Test equipment	Result	Criteria / Tolerance	Comments	Accepted	Sign/Date
	Hall probe Vertical measurements. Before and after each measurement series, reference magnetic field and magnet array temperature must be logged in order to perform temperature correction. 600 mm scans. Use seperate document for data logging, see "504313_ReferenceDoc" • 10 mm gap (y=-0,2) • 10 mm gap (y=-0,1) • 10 mm gap (y=0) • 10 mm gap (y=0,1) • 10 mm gap (y=0,2)	N/A	OK	Hall probe Vertical measurement completed		OK	10/09/2024 PMHA
24	**Fiducial holes measurements, magnetic gap 10 mm**						

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To be carried out after assembly

No.	Description	Test equipment	Result	Criteria / Tolerance	Comments	Accepted	Sign/Date
	Report uploaded	N/A	OK		Y:\DFYProjects\DFY504313_SLAC Phase Shifters\30 Technical\40 QA and Test results\FAT documentation\2410087	OK	05/09/2024 csoj
25	**Visual inspection See drawing 7103050653**						
	Visual appearance	N/A	OK			OK	04/11/2024 bgr
	Labels attached as indicated by drawing	N/A	OK			OK	04/11/2024 bgr
	Varnistop applied to bolts.	N/A	OK			OK	04/11/2024 bgr
26	**Data label**						
	Data label added	N/A	OK	Label present		OK	04/11/2024 bgr

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To be carried out after assembly

No.	Description	Test equipment	Result	Criteria / Tolerance	Comments	Accepted	Sign/Date
27	**Production control**						
	Approved by	N/A	OK			OK	04/11/2024 bgr
28	**Lead Engineer**						
	Approved by	N/A	OK			OK	05/11/2024 DANA

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