

4.1 TM3/4 FEBIAD with Target and No External Connections

Shunts installed and tightened E-F-G-H-T-J-RFQ(H)
FEBIAD coil shunts removed P-Q-R-U

Ohm Meter Check

	Target (ABCD)	Einzel Lens (Y)	60kV Com (T)	Chassis	EE (I)
Magnet Coil (U, Q)	OL	OL	0	OL	OL
	Infinite	Infinite	Infinite	Infinite	Infinite
Anode (H)	OL	OL	OL	OL	OL
	Infinite	Infinite	Infinite	Infinite	Infinite
60kV Common (T)	OL	OL			
	Infinite	Infinite			
Chassis	OL	OL	OL		
	Infinite	Infinite	Infinite		
EE (I)	OL	OL	OL		
	Infinite	Infinite	Infinite	Infinite	
Einzel Lens (Y)	OL				
	Infinite				

Megger Check (all @ 500V unless otherwise noted)

	Target (ABCD)	Einzel Lens (Y)	60kV Com (T)	Chassis	EE (I)
Anode (H)	OL	OL	OL	OL	
	Infinite	Infinite	Infinite	Infinite	Infinite
60kV Common (T)	564K	OL			
	Infinite	Infinite			
Chassis	700M	OL	701M		
	Infinite @ 1000V	Infinite @ 1000V	Infinite		
EE (I)	OL	OL	OL	OL	
	Infinite	Infinite	Infinite	Infinite	
Einzel Lens (Y)	OL				
	Infinite				

Conductance Check [mΩ]

A - B	A - C	A - D	B - C	B - D	C - D	Q - U
5.923	5.756	5.067	5.479	4.768	4.589	5.879
4 - 5.7	5 - 6.8	4 - 5.3	5 - 6.8	4 - 5.3	4 - 5.5	4 - 5

Backg. leak rate:	2.2×10^{-8}	HS leak rate:	2.2x
[atm-cc/s]	< 5E-9	[atm-cc/s]	< Backg. leak rate

Target:	TM2 Ta Febiad	Date:	2017-01-24
Location:	SHC CS SHCpost Dummy Target	Signature:	David [Signature]

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FEBIAD coil shunts removed P-Q-R-U	//

	Ohm Meter Check				
	Target (ABCD)	Einzel Lens (Y)	60kV Com (T)	Chassis	EE (I)
Magnet Coil (U, Q)	OL Infinite	OL Infinite	OL Infinite	OL Infinite	OL Infinite
Anode (H)	OL Infinite	OL Infinite	OL Infinite	OL Infinite	OL Infinite
60kV Common (T)	OL Infinite	OL Infinite			
Chassis	OL Infinite	OL Infinite			
EE (I)	OL Infinite	OL Infinite			
Einzel Lens (Y)	OL Infinite				

250V
2.65M ←

	Megger Check (all @ 500V unless otherwise noted) → short @ 250V				
	Target (ABCD)	Einzel Lens (Y)	60kV Com (T)	Chassis	EE (I)
Anode (H)	0 @ 500V Infinite	OL Infinite	0 @ 500V Infinite	971M Infinite	OL Infinite
60kV Common (T)	460K Infinite	OL Infinite			
Chassis	957M Infinite @ 1000V	OL Infinite @ 1000V			
EE (I)	OL Infinite	OL Infinite	OL Infinite	OL Infinite	
Einzel Lens (Y)	OL Infinite				

Conductance Check [mΩ]						
A - B	A - C	A - D	B - C	B - D	C - D	Q - U
6.276	6.215	5.232	6.141	5.150	5.036	5.668
4 - 5.7	5 - 6.8	4 - 5.3	5 - 6.8	4 - 5.3	4 - 5.5	4 - 5

Backg. leak rate:	HS leak rate:
[atm-cc/s]	[atm-cc/s]
< 5E-9	< Backg. leak rate

Target: TM 2 to Dummy target	Date: March 23 2017
Location: SHC CS SHCpost	Signature: J CAVE D WAWA