

## 4 TM2/3/4

The following checklists are for TM2, TM3 and TM4

### 4.1 TM2/3/4 FEBIAD with Target and No External Connections

Shunts installed and tightened E-F-G-H-T-	
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
Flange B Pin 2-2	OL Infinite	Infinite	OL Infinite	OL Infinite	Infinite
60kV Common (T)	OL Infinite	OL Infinite			
Chassis	OL Infinite	OL Infinite	OL Infinite		
EE (I)	OL Infinite	OL Infinite	OL Infinite	OL Infinite	
Einzel Lens (Y)	OL Infinite				

	Megger Check (all @ 500V unless otherwise noted)				
	Target (ABCD)	Einzel Lens (Y)	60kV Com (T)	Chassis	EE (I)
Flange B Pin 2-2	OL @250V in vacuum	Infinite	OL @250V in vacuum	OL Infinite	OL Infinite
60kV Common (T)	<del>OL</del> 8.66M @250V under vacuum only	OL Infinite			
Chassis	OL Infinite @ 1000V	OL Infinite @ 1000V	OL Infinite		
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
5.370	5.345	4.952	5.242	4.842	4.782	6.523

Pin 11-15  
Pin 21, 23, 24  
are short  
to 60kV Ubi

8.1488 - E  
1.5453 - N

Target Module with Target Check		
Document: 75583	Release No. 5	Release Date: 2022-06-10

4 - 5.7	5 - 6.8	4 - 5.3	5 - 6.8	4 - 5.3	4 - 5.5	4 - 5
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Backg. leak rate:	$0.0 \times 10^{-9}$	HS leak rate:	$0.0 \times 10^{-9}$
[atm-cc/s]	< 5E-9	[atm-cc/s]	< Backg. leak rate

Target:	UC <sup>#</sup> 44	Date:	2024-05-2
Location:	SHC CS HCpost	Signature:	<i>W...</i>

#### 4.2 TM2/3/4 SIS with Target and No External Connections

Shunts installed and tightened E-F-G-H-T-J	
FEBIAD coil shunts <u>installed</u> and tightened PQUR for TM3/4, RU only for TM2	

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

	Megger Check (all @ 500V unless otherwise noted)								
	Target (ABCD)	Einzel Lens (Y)	60kV Com (T)	Chassis	EE (I)				
Anode (H)									
60kV Common (T)						@ 250V under vacuum only	Infinite		
Chassis						Infinite @ 1000V	Infinite @ 1000V	Infinite	
EE (I)						Infinite	Infinite	Infinite	Infinite
Einzel Lens (Y)						Infinite			