

4 TM2/3/4

The following checklists are for TM2, TM3 and TM4

4.1 TM4 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 <small>Infinite</small>	OL <small>Infinite</small>	OL <small>Infinite</small>	OL <small>Infinite</small>	OL <small>Infinite</small>
Flange B Pin 2-2	OL <small>Infinite</small>		OL <small>Infinite</small>	OL <small>Infinite</small>	
60kV Common (T)	OL <small>Infinite</small>	OL <small>Infinite</small>			
Chassis	OL <small>Infinite</small>	OL <small>Infinite</small>	OL <small>Infinite</small>		
EE (I)	OL <small>Infinite</small>	OL <small>Infinite</small>	OL <small>Infinite</small>	OL <small>Infinite</small>	
Einzel Lens (Y)	OL <small>Infinite</small>				

	Megger Check (all @ 500V unless otherwise noted)				
	Target (ABCD)	Einzel Lens (Y)	60kV Com (T)	Chassis	EE (I)
Flange B Pin 2-2	OL <small>@250V in vacuum</small>		OL <small>@250V in vacuum</small>	OL <small>Infinite</small>	OL <small>Infinite</small>
60kV Common (T)	OL <small>@250V under vacuum only</small>	OL <small>Infinite</small>			
Chassis	OL <small>Infinite @ 1000V</small>	OL <small>Infinite @ 1000V</small>	82 M <small>Infinite</small>		
EE (I)	OL <small>Infinite</small>	OL <small>Infinite</small>	OL <small>Infinite</small>	OL <small>Infinite</small>	
Einzel Lens (Y)	OL <small>Infinite</small>				

Pin 2-1
2-3
2-5
2-4

Pin 1-1 to 1-
All ground to 60kV

Conductance Check [mΩ]						
A-B	A-C	A-D	B-C	B-D	C-D	Q-U
6.539	6.170	5.542	6.241	5.600	5.174	8.205

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:	0.0×10^{-9}	HS leak rate:	0.0×10^{-9}
[atm-cc/s]	< 5E-9	[atm-cc/s]	< Backg. leak rate

Target: <u>TM4</u> Lp - Febiad empty	Date: 2024 - APR - 29
Location: <u>FHC</u> CS HCpost	Signature: <i>W. [unclear]</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)	[Shaded]				
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)	[Shaded]				
60kV Common (T)					
Chassis	Infinite @ 1000V	Infinite @ 1000V	Infinite		
EE (I)	Infinite	Infinite	Infinite	Infinite	
Einzel Lens (Y)	Infinite				