Technical Offer

Reference: -

Client: Inphase India

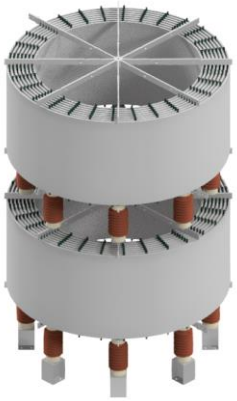
Air Coil(s), type Harmonic Filter

Electrical Characteristics

Nominal Inductance	94,9	mH
Nominal Impedance	35,8	Ω
Rated Voltage	34,5	kV
Basic Insulation Level (BIL)	200	kVp
Rated Frequency	60	Hz
Tuning Frequency	-	Hz
Rated Current	475	A
Rated Short Time Current Thermal	1.1 / 1	kA/s
Mechanical Short Circuit Current	2.81	kAp
Losses per Phase at 75ºC / Rated Current	48,2	kW
Q Factor at 75ºC / Rated Frequency	157,3	
Rated Power	4035,1	kVAr
Cooling	N.A.	
Insulation Class	F: 155	°C

Dimensional

Air Coil Height Module	1019,5	mm
Air Coil Diameter	2002,4	mm
Foundation Diameter	1900,0	mm
Weight per Module	2094,0	kg
Total Weight	4476,0	kg



Note

1 - Air Coil color - Ansi 70 Light Gray.

2 - Orientation design for proposal.

3 - Location of the terminals can be modified to meet the customer's specification.

4 - Dimensions in mm

Industry Electrical Testing

Applicable Standard IEC-60076-6

→ Visual and dimensional.

→ Measurement of ohmic resistance of the winding.

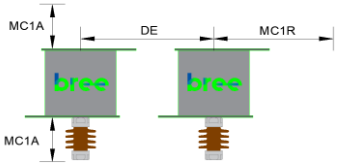
→ Reactance measurement.

→ Measurement of losses at room temperature.

→ Measurement of inductance and quality factor at tuning frequency.

Magnetic Clearance

Minimum Distance Between Air Coil Axes (DE)	3344	mm
Axial distance from the top / bottom ends to:		
→ Small metal parts not formed in closed loops (MC1A)	1001	mm
Radial distance from the Air Coil centerline to:		
→ Small metal parts not forming closed loops (MC1R)	2203	mm



Environment

Installation	External	
Maximum Altitude	1000	manm
Ambient Temperature	40	ºC
Wind Speed	120	km/h

Support information

Insulators	Not included
Model:	16 x TR210
Type of Installation	Side-by-side

Package Dimensions

Package Contents	1 x Air Coil
L x W x H (cm) :	2002 x 2002 x 1019
Packing Type:	Crate
Gross weight (kg):	4692

Date: 22/12/2022

Commercial +55 41 3167-4000 or 4002
+55 41 3167-4016

Engineering

www.bree.com.br
reativos@bree.com.br

Street Pref. Domingos Mocelin Neto, 157
Zip Code 83420-000 Quatro Barras - PR