

Regd.Off.: 87/4 MIDC Satpur, Nashik – 422007, Maharashtra,India T:0253-2950001/E:<u>info@apil.co.in</u>

W: www.apil.co.in

Akanksha Power and Infrastructure Ltd.

CIN: U40104MH2008PLC184149 MSME: UDYAM-MH-23-0014661

REACTORS

3 PHASE HARMONIC FILTER REACTOR (7% & 14% Copper)

⚠ This document and its accompanying materials are the proprietary assets of Akanksha Power and Infrastructure Limited (APIL). Any reproduction, dissemination, or distribution of its contents—whether in whole or in part—without prior written authorization from APIL is strictly prohibited.



Regd.Off.: 87/4 MIDC Satpur, Nashik – 422007, Maharashtra,India W: www.apil.co.in

T:0253-2950001/E:info@apil.co.in

Akanksha Power and Infrastructure Ltd.

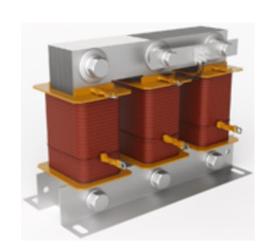
CIN: U40104MH2008PLC184149

MSME: UDYAM-MH-23-0014661

3 PHASE HARMONIC FILTER REACTOR - COPPER

Features

- High harmonic loading capability
- Very low losses
- High linearity of 140% to 300% to avoid choke tilt
- Low Noise Level less than 60dB at rated load
- Convenient mounting
- Long expected life time
- Temperature protection
- Thermal Protection with NC contact
- TIG welding for connecting AL lugs
- Coil wound with multiple conductors to reduce skin effects
- Inductance Phase value within 3%
- Vibration free Operation



Technical data & Specification				
Parameter	Typical Specification			
Rating	1KVAr to 300KVAr			
Reference Standard	IS 5553			
System Voltage	415V/440V			
Filter Factor	7% / 14%			
Conductor	Aluminium			
Core	CRNGO			
Frequency	50Hz			
Cooling	AN			
Linearity*	1.8xIn (7%) & 1.43xIn (14%) Temperature Rise			
Noise level	<60 decibel at rated load Thermal Protection			
Termination	Lug Type			
Insulation Class	Class F			
H. V	3 KV @ 50Hz for 1 Minute			

^{*}Note - We also provide reactors with higher Linearity 2, 2.2, 2.5, 3 on request.



T:0253-2950001/E:info@apil.co.in

Akanksha Power and Infrastructure Ltd.

CIN: U40104MH2008PLC184149

MSME: UDYAM-MH-23-0014661

3 PHASE HARMONIC FILTER REACTOR - COPPER

System Voltage 440V - 7% Copper						
KVAR Rating	Current In(A)	Irms(A)	Inductance(mH)	Weight (Kg)		
5	6.56	7.87	9.3	7		
7.5	9.84	11.81	6.2	9		
10	13.12	15.74	4.65	10		
12.5	16.4	19.68	3.72	12		
15	19.68	23.61	3.1	12		
20	26.24	31.38	2.32	14		
25	32.8	39.36	1.86	18		
50	65.6	78.72	0.93	28		
75	98.4	118.08	0.62	50		
100	131.2	157.44	0.465	56		

System Voltage 415V - 7% Copper						
KVAR Rating	Current In(A)	Irms(A)	Inductance(mH)	Weight (Kg)		
5	7	8.4	8.4	7		
7.5	10.5	12.6	5.6	9		
10	14	16.8	4.2	10		
12.5	17.5	21	3.36	12		
15	21	25.2	2.8	12		
20	28	33.6	2.1	14		
25	35	42	1.68	18		
50	70	80	0.84	28		
75	105	126	0.56	50		
100	140	168	0.42	56		



Regd.Off.: 87/4 MIDC Satpur, Nashik – 422007, Maharashtra,India W: www.apil.co.in

T:0253-2950001/E:info@apil.co.in

Akanksha Power and Infrastructure Ltd.

CIN: U40104MH2008PLC184149

MSME: UDYAM-MH-23-0014661

3 PHASE HARMONIC FILTER REACTOR - COPPER

System Voltage 440V - 14% Copper							
KVAR Rating	Current In(A)	Irms(A)	Inductance(mH)	Weight (Kg)			
5	6.56	7.87	18.6	9			
10	13.12	15.74	9.3	15			
15	19.68	23.61	6.2	18			
20	26.24	31.38	4.65	24			
25	32.8	39.36	3.7	25			
50	65.6	78.72	1.86	47			
75	98.4	118.08	1.24	60			
100	131.2	157.44	0.93	78			

System Voltage 440V - 14% Copper							
KVAR Rating	Current In(A)	Irms(A)	Inductance(mH)	Weight (Kg)			
5	7	8.4	16.8	7			
10	14	16.8	8.4	10			
15	21	25.2	5.6	12			
20	28	33.6	4.2	14			
25	35	42	3.36	18			
50	70	80	1.68	28			
75	105	126	1.132	60			
100	140	168	0.84	78			



Regd.Off.: 87/4 MIDC Satpur, Nashik – 422007, Maharashtra,India

T:0253-2950001/E:info@apil.co.in

W: www.apil.co.in

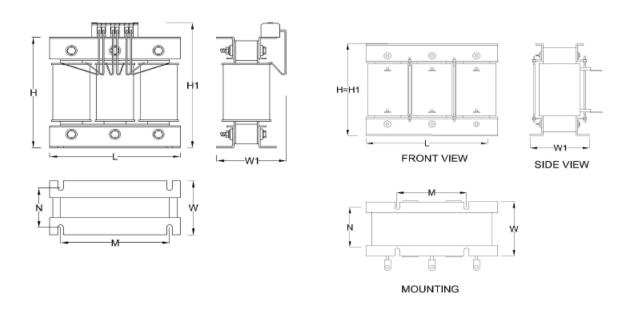
Akanksha Power and Infrastructure Ltd.

CIN: U40104MH2008PLC184149

MSME: UDYAM-MH-23-0014661

3PHASE HARMONIC FILTER REACTORS 415V/440V, 7%, Cu

Dimensions



DIMENSIONS
3PHASE HARMONIC FILTER REACTORS 400V/415V/440V, 7%, CU

KVAR	L	W	W1	Н	H1	M	N	TYPE
1	120	65	80	96	116	100	54	Α
2	150	74	94	120	140	125	49	Α
3	150	88	108	120	140	125	63	Α
4	180	83	108	170	202	150	69	Α
5	180	83	108	170	202	150	69	Α
7.5	180	103	128	170	230	150	89	Α
10	180	103	128	170	230	150	89	Α
12.5	180	103	128	170	230	150	89	Α
15	243	104	134	210	270	180	85	Α
20	243	124	174	210	210	180	100	В
25	243	124	174	210	210	180	100	В
50	287	137	207	239	239	180	110	В
75	300	154	234	260	260	180	129	В
100	360	162	262	288	288	180	137	В



Regd.Off.: 87/4 MIDC Satpur, Nashik – 422007, Maharashtra,India W: www.apil.co.in

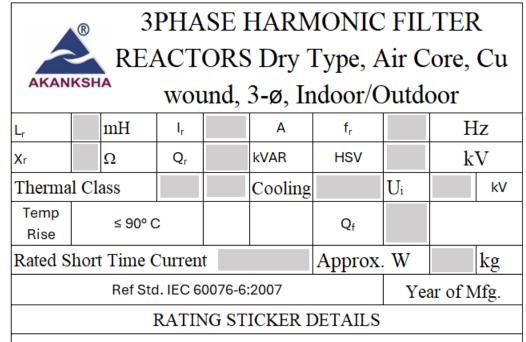
T:0253-2950001/E:info@apil.co.in

Akanksha Power and Infrastructure Ltd.

CIN: U40104MH2008PLC184149

MSME: UDYAM-MH-23-0014661

3PHASE HARMONIC FILTER REACTORS 415V/440V, 7%, Cu **Rating Plate**



Manufactured By:

AKANKSHA POWER AND INFRASTRUCTURE LTD.

87/4, MIDC, SATPUR, NASHIK 422007.



Regd.Off.: 87/4 MIDC Satpur, Nashik – 422007, Maharashtra,India

T:0253-2950001/E:info@apil.co.in

W: www.apil.co.in

Akanksha Power and Infrastructure Ltd.

CIN: U40104MH2008PLC184149

MSME: UDYAM-MH-23-0014661

Display of ordering codes for APIL products

The ordering code for one and the same product can be represented differently in data sheets, data books, other publications, on the company website, or in order-related documents such as shipping notes, order confirmations and product labels. **The varying representations of the ordering codes are due to different processes employed and do not affect the specifications of the respective products**. Detailed information can be found on the Internet under www.apil.co.in.

Important notes

The following applies to all products named in this publication:

- 1. Some parts of this publication contain statements about the suitability of our products for certain areas of application. These statements are based on our knowledge of typical requirements that are often placed on our products in the areas of application concerned. We nevertheless point out that such statements cannot be regarded as binding statements about the suitability of our products for a particular customer application. As a rule, we are either unfamiliar with individual customer applications or less familiar with them than the customers themselves. For these reasons, it is always ultimately incumbent on the customer to check and decide whether a product with the properties described in the product specification is suitable for use in a particular customer application.
- 2. We also point out that in individual cases, a malfunction of electronic components or failure before the end of their usual service life cannot be completely ruled out in the current state of the art infrastructure, even if they are operated as specified. In customer applications requiring a very high level of operational safety and especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health (e.g. in accident prevention or life-saving systems), it must therefore be ensured by means of suitable design of the customer application or other action taken by the customer (e.g. installation of protective circuitry or redundancy) that no injury or damage is sustained by third parties in the event of malfunction or failure of an electronic component.
- 3. The warnings, cautions and product-specific notes must be observed.
- 4. To satisfy certain technical requirements, some of the products described in this publication may contain substances subject to restrictions in certain jurisdictions (e.g. because they are classed as hazardous). Useful information on this will be found in our Material Data Sheets on the Internet (www.apil.co.in). Should you have any more detailed questions, please contact our sales offices.
- 5. We constantly strive to improve our products. Consequently, the products described in this publication may change from time to time. The same is true of the corresponding product specifications. Please check therefore to what extent product descriptions and specifications contained in this publication are still applicable before or when you place an order.

We also reserve the right to discontinue production and delivery of products. Consequently, we cannot guarantee that all products named in this publication will always be available. The aforementioned does not apply in the case of individual agreements deviating from the foregoing for customer-specific products.

- 1. Unless otherwise agreed in individual contracts, all orders are subject to our General Terms and Conditions of Supply.
- 2. Our manufacturing lines are certified by ISO 9001-2015 standard. The ISO certifications confirm our compliance with requirements regarding the quality management system. Referring to customer requirements and customer specific requirements ("CSR") APIL always has and will continue to have the policy of respecting individual agreements. we hereby like to emphasize that only requirements mutually agreed upon can and will be implemented in our Quality Management System.
- 3. The trade names "AKANKSHA" is **registered under trademark law of India, f**urther information will be found on our website www.apil.co.in, or can contact us.