

Technical Particulars - Three-phase transformer , 11/ 0.420kV, 50 kVA

No.	Characteristics	Unit	Values
1	Native country		India
2	Maker		KKM POWER AB
3	Type		Hermetically Sealed(Completely filled)
4	Standards		IEC 60076 /EN 50588 / EN 50708-2
5	Nominal power	kVA	50
6	Location		Outside
7	Nominal voltage HV	kV	11
8	Cooling method		ONAN
9	Coupling		Dyn11
10	Dielectric fluid		Mineral oil -IEC-60296
11	Frequency	Hz	50
12	Transformation Ratio	kV	11 / 0.420
13	Tap Range		+5 to -5 @ 2.5%
14	Current		
	HV	A	2.624
	LV	A	68.73
15	Test voltage 50Hz 1 min MT winding	kVrms	28
16	Test voltage 50 Hz 1 min LV winding	kVrms	3
17	Withstand voltage 1.2 / 50 MT winding	kV	75
18	Oil heating	° C	60
19	Heating of windings	° C	65
20	No-load losses (W)	kW	Tier - 2 (EU-548-2014)
21	Pressure losses (W)	kW	Tier - 2 (EU-548-2014)
22	Short circuit voltage	%	4
23	No-load current	%	3
24	Continuous overload	%	10
25	LV winding material		Aluminium
26	MT winding material		Aluminium
27	Core Material		Amorphous
28	Type of connection terminals		porcelain
29	Total weight	Kg	510

Note:

- Weights and dimensions are subjected to +/- 10% tolerance

Naveen
Prepared By

BSR
Checked By

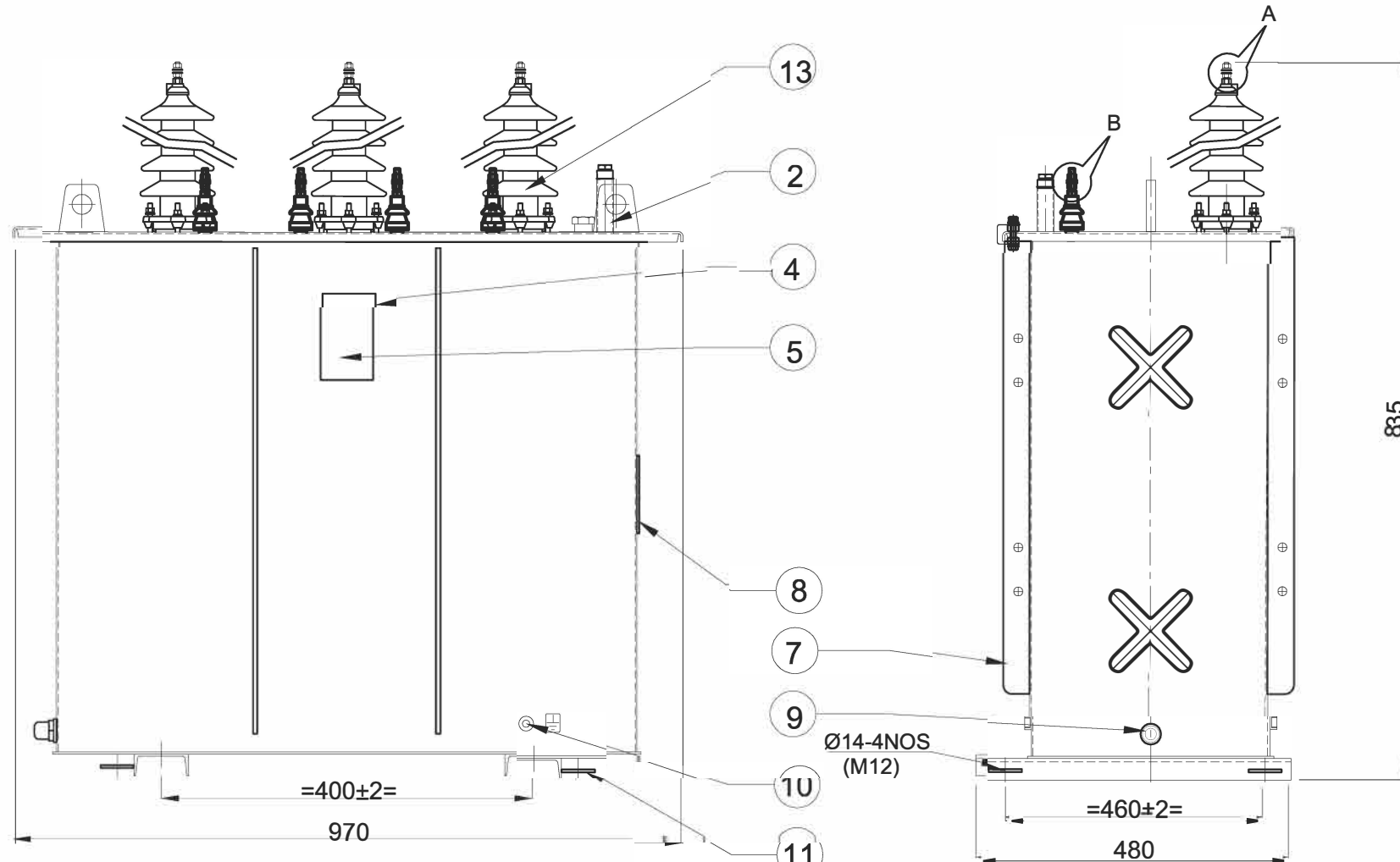
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Approved By

ALL DIMENSIONS ARE IN mm & WEIGHTS ARE IN kg UNLESS OTHERWISE SPECIFIED.

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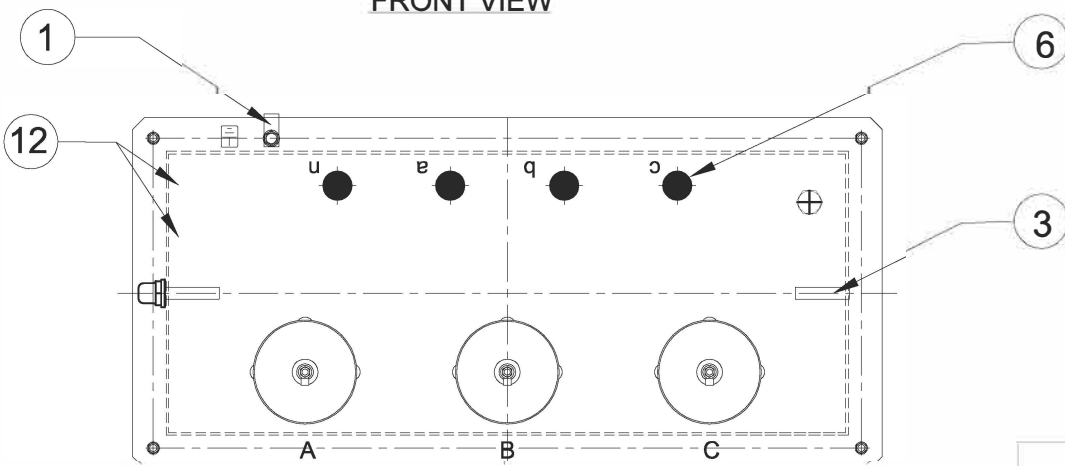
NOTE :

- 1) OVERALL DIMENSIONS AND WEIGHTS ARE SUBJECT TO ±10% TOLERANCE.
 - 2) FINISH PAINT SHADE :- RAL 7035 (LIGHT GREY).
 - 3) THE POSITION, LOCATION, DESIGN OF FITTINGS & ACCESSORIES MAY SLIGHTLY VARY DURING MANUFACTURING.
 - 4) COMPLETE TRANSFORMER WITHSTANDS LOWER LIMIT OF AMBIENT TEMPERATURE -40°C.
- TIGHTENING TORQUE :-**
- HV & LV BUSHING STEM(OUTSIDE) M12 - 13Nm.
- 5) TERMINAL MARKING AND EARTHING SYMBOL SHALL BE PAINTED WITH BLACK COLOR .
 - 6) OIL LEVEL MARKING SHALL BE VISIBLE FROM TANK SHORTER SIDE .
 - 7) GAP (2MM) SHOULD MAINTAIN BETWEEN TWO ADJACENT NUT AS PER DETAIL-A,DETAIL-B & DETAIL-C .

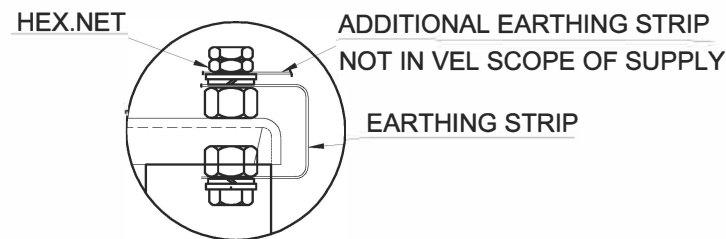


FRONT VIEW

SIDE VIEW



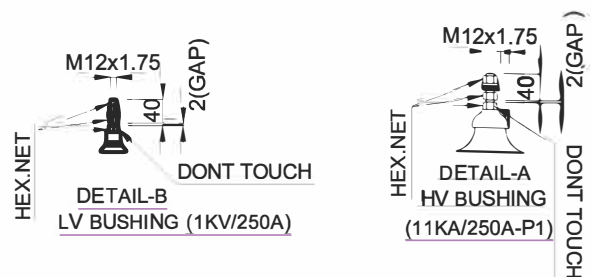
TOP VIEW



EARTHING ARRANGEMENT

MIN. EXTERNAL AIR CLEARANCES

	H.V
PHASE TO PHASE	120
PHASE TO EARTH	120



13	HV BUSHING	3
12	VOLTAGE MARKING PLATE	-
11	TOWING EYES	4
10	EARTHING TERMINALS	2
9	OIL DRAINING CUM SAMPLING DEVICE	1
8	MONOGRAM	1
7	VERTICAL STIFFENER	-
6	LV BUSHING	4
5	RATING PLATE	1
4	RATING PLATE FIXING PLATE	1
3	LIFTING LUGS FOR LIFTING OF TRANSFORMER	2
2	OIL FILLING PIPE WITH VERTICAL FLOAT OLG	1
1	EARTHING STRIP BETWEEN TANK AND TOP COVER	1

S.NO	DESCRIPTION	QTY.
WEIGHTS		
TOTAL WEIGHT	Kg	510
RATING	: kVA	50
VOLTAGE AT NO LOAD	: H.V V	11000
	: L.V V	420
CURRENT	: H.V A	2.624
	: L.V A	68.73
FREQUENCY	: Hz	50
NO. OF PHASES	:	3
COOLING	:	ONAN
TEMP.RISE (0/W)*C :		60/65
VECTOR GROUP	:	Dyn11
TYPE	:	H.SEALED
SPECIFICATION	:	IEC:60076

REV	ZONE	DATE	MODIFICATION	MODIFIED	CHECKED	APPRD.
KKM POWER AB						
OUTLINE GENERAL ARRANGEMENT FOR 50KVA						
11 / 0.420 kV HERMETICALLY SEALED TRANSFORMER						
SCALE: NTS				DESIGNED NAVEEN 20.09.21		
				DRAWN PRASAD 20.09.21		
				CHECKED B.S.RAO 21.09.21		
				APPROVED B.S.RAO 21.09.21		
				W. O. No: ENQ-H22250A		
				DRG.NO.: 3 OG 09727H		