


REF.	C & D NO.	T.M. TYPE	LENGTH IN mm. (L)
1	5760/624	6FRA 6068	54.5±0.2
2	5860/124	6FXA 7059	96.5±0.2

NOTE:

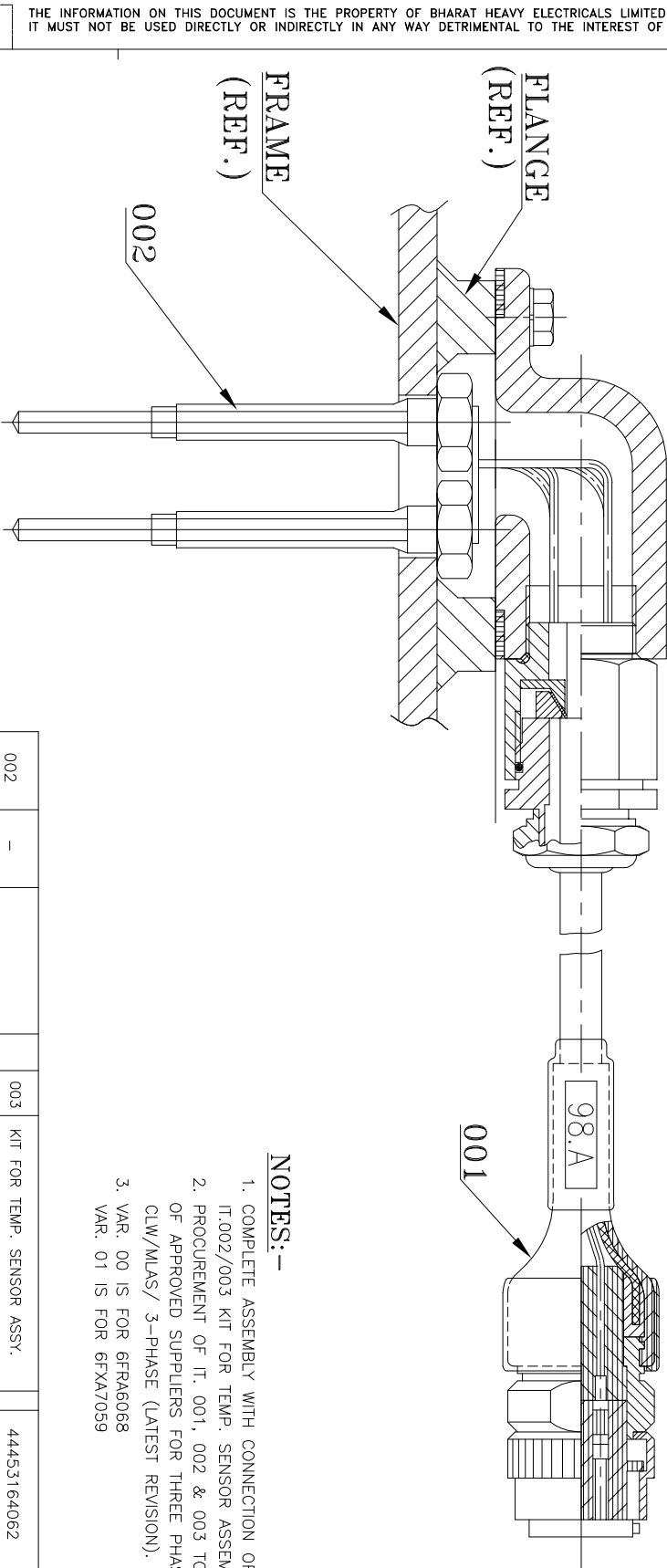
1. ALL DIMENSIONS ARE IN mm.  
2. THIS IS A COMMON DRAWING TO 6FRA-6068 AND 6FXA-7059.  
3. ONE SAMPLE MUST BE SUPPLIED FOR FITMENT AND APPROVAL BEFORE BULK SUPPLY.

4	/		SLEEVE	2	HIGH INSULATION FLEXIBLE COTTON SLEEVE
3	/		BUSH	2	HIGH INSULATION HARD EPOXY / FIBRE
2	/		LOCKING PLATE	2	HIGH FLEXIBLE CORROSION FREE TIN/STEEL
1	/		HEX HD. BOLT M12x70 Gr. 4.6 ALONG WITH HEX NUT M12 Gr.4	2	PHOSPHATED IS-1364 (P.21)92
निर्देश संख्या	लाभित एवं वितरण संख्या	अंग आरेखण संख्या	वर्णन	मात्रा	पदार्थ विशिष्ट भार कि. ग्रा.
REF. NO.	C&D NO.	PART DRG. NO.	DESCRIPTION	QTY.	MATL SPECN WT. EACH IN K.G.

4. Alt-3 withdrawn & Drg. redrawn 25.10.13												अभिकल्पित DGN		पदार्थ MATL		विविध SPECN		प्रति मार कि. या. BT, EACH 14 KG					
Alt-3 withdrawn & Drg. redrawn 25.10.13												अरेखण संख्या REF. ASSLY DRG. NO.		1TWD.096.103		 अभिकल्प एवं विकास केन्द्र D & D CENTRE चितरंजन रेल इंजन कारखाना CHITTARANJAN LOCOMOTIVE WORKS							
परिवर्तन संख्या ALT.NO.												संस्तर क्र. C & D NO.		प्रयोग में USED FOR LOCOS				WAG-9					
वर्णन DESCRIPTION												वर्णन DESCRIPTION											
KITS FOR TEMP. SENSOR ASSLY.												KITS FOR TEMP. SENSOR ASSLY.											
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परिवर्तन संख्या ALT. NO. 4												परिवर्तन संख्या ALT. NO. 4											
SHEET पृष्ठ 1 of 1												SHEET पृष्ठ 1 of 1											
A4												A4											

950 79 10 547 3 NO.

DRG. NO.



- NOTES:-**
1. COMPLETE ASSEMBLY WITH CONNECTION OF IT.001 TEMPERATURE SENSOR ASSY. & IT.002/003 KIT FOR TEMP. SENSOR ASSEMBLY TO BE SUPPLIED.
  2. PROCUREMENT OF IT. 001, 002 & 003 TO BE DONE AS PER MASTER LIST OF APPROVED SUPPLIERS FOR THREE PHASE ELECTRIC LOCO COMPONENTS CLW/MLAS/ 3-PHASE (LATEST REVISION).
  3. VAR. 00 IS FOR 6FRA6068  
VAR. 01 IS FOR 6FXA7059

INVENTORY NO.	SIGN. & DATE	REF. DRG. NO.	THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.
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REV.	DATE	ALTERED	CHECKED	APPD.	REV.	DATE	ALTERED	CHECKED	APPD.

STATUS OF DRAWING	ADDITIONAL INFORMATION
DISTRIBUTION OF PRINTS TME - 1 TXM - 4 TNX - 1	

DEPT. T.M.E.	GRADE OF UN.TOL.	SCALE	WEIGHT(K.G.)	REF. TO ASSY.DRG.	ITEM NO.	NO. OF ITEM
CODE 405	NTS	0.88		04451064051	021	003
TITLE COMPLETE TEMPERATURE SENSOR ASSY.				DRAWING NO.	3 445 01 64 056	REV. 00
				SHT. NO.	01	NO. OF SHT. 01



BHARAT HEAVY ELECTRICALS LTD.  
BHOPAL

DRN	A.JHARIA	SIGN	DATE	NO. OF VAR.
CKD	P.TELANG		23.12.20	02
APPD	VR		23.12.20	

VAR 01	VAR 00	REMARKS	VAR NO.	ITEM NO.	DESCRIPTION	DRAWING NO.	VAR	MATL. CODE	MATL. SPECN.	UNIT	WT.	QTY.	ZONE
002	-			003	KIT FOR TEMP. SENSOR ASSY.	44453164062	01						
-	002			002	KIT FOR TEMP. SENSOR ASSY.	44453164062	00						
001	001			001	TEMPERATURE SENSOR ASSY.	14450164051	00						

0440 DTE 3 28

28 0440 DTE 1

28 0440 DTE 2

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REV. DATE ALTERED

02 28.05.13

CHECKED

APPROVED

REV. DATE ALTERED

03 28.11.13

CHECKED

APPROVED

LENGTH OF ITEM 001 REVISED  
INLINE WITH DRG. NO. 04453166053  
R03 & 04453164051 R04.

IN TABLE DIM.54.5±0.2(FRA) & 96.5±0.2  
(FXA) WERE 11.5±0.2 & 26.5±0.2.

REV. DATE ALTERED

04 31.07.14

CHECKED

APPROVED

REV. DATE ALTERED

05 23.12.20

CHECKED

APPROVED

STYLE TABLE ADDED.

TITLE BLOCK MODIFIED.

REV. DATE ALTERED

06 16.12.21

CHECKED

APPROVED

REV. DATE ALTERED

07 24.09.22

CHECKED

APPROVED

VAR.02 FOR IM4504 ADDED.

DRAWING UPDATED IN LINE WITH CLW  
DRAWING NO. 4TWD.096.163, ALT.4

VAR.NO. DESCRIPTION ST.NO.

00 HEX.NUT  
(KIT FOR TEMP SENSOR ASSY.) BP9094727617

01 HEX.NUT  
(KIT FOR TEMP SENSOR ASSY.) BP9094730855

001 (BOLT)

002

001 (NUT M12)

003

004

T.M.TYPE	LENGTH IN mm. (L)
6FRA-6068	54.5±0.2
6FXA-7059	96.5±0.2
IM4504	33.5±0.2

NOTES:-

1. ALL DIMENSIONS ARE IN mm.

2. THIS IS A COMMON DRAWING TO 6FRA-6068 AND 6FXA-7059.

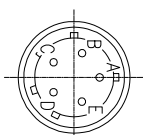
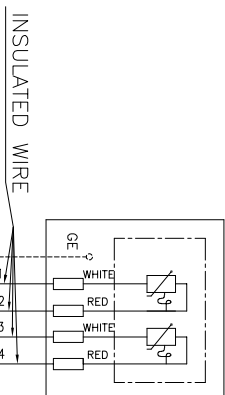
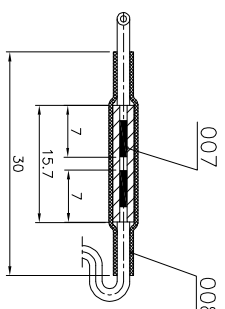
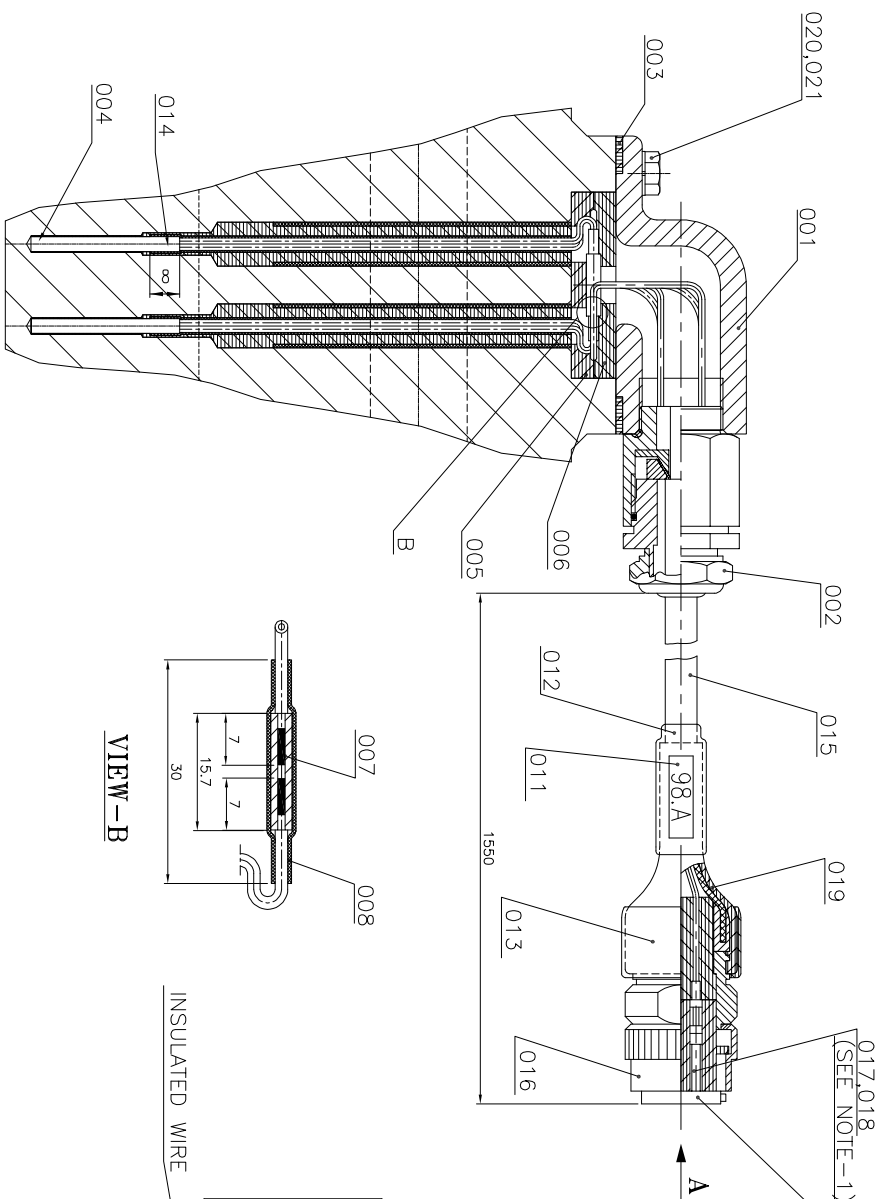
3. ONE SAMPLE MUST BE SUPPLIED FOR FITMENT AND APPROVAL BEFORE BULK SUPPLY.

4. VAR.00 FOR 6FRA-6068, VAR.01 FOR 6FXA-7059 & VAR.02 FOR IM4504.

REF. DRG. NO. ....	001	001	001	004	SLEEVE			HIGH INSULATION FLEXIBLE COTTON SLEEVE			
	001	001	001	003	BUSH			HIGH INSULATION HARD EPOXY/FIBRE			
	001	001	001	002	LOCKING PLATE			HIGH FLEXIBLE CORROSION FREE TIN/STEEL			
	001	001	001	001	HEX. HD. BOLT M12x70, Gr.4.6 ALONG WITH HEX NUT M12, Gr.4			PHOSPHATED IS:1364 (P.2)'92			
	VAR. 02	VAR. 01	VAR. 00	ITEM NO.	DESCRIPTION	DRAWING	STD	MATL. SPECN.	A/C	UNIT	UNIT WT. QTY.
SIGN. & DATE	CARD TYPE 3 → 28			CARD TYPE 1 → 28			CARD TYPE 2				
	<div><div>बी.सच.ई.एल. BHEL</div><div>BHARAT HEAVY ELECTRICALS LTD. BHOPAL</div></div>					DRN.	NAME	SIGN	DATE	NO.OF VAR. 02	
						CKD.	D.K.	—sd—	09—09—10		
						APPD.	A.S.	—sd—	09—09—10		
	INVENTORY NO.	DEPT. TME	UNTOL. DIMS. GR.		SCALE	WEIGHT(KG)	REF.TO ASSY.DRG.		ITEM NO.	NO.OF ITEM 004	
CODE 405		M	NTS		0.7	34450164056 14451091101		002 003 011			
TITLE KIT FOR TEMP SENSOR ASSY. 6FRA—6068/6FXA—7059/IM4504						DRAWING NO. 44453164062			REV 07		
						SHT.NO 01		NO.OF.SHT. 01			

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7/2024/HEP-TXM20500	
INVENTORY NO. SIGN. & DATE	REF. DRG. NO.



SEE NOTE-4

017,018  
(SEE NOTE-1)

1. INSERT BLENDED CABLE COORD. IN CONTACT PIN.
2. FLING-UP CONNECTOR AS PER AD9-HB1B-650092-2.
3. SHORTEN CABLE TO 200 MM.
4. CONTACTS TO BE PROTECTED WITH PLASTIC COVER.
5. ALTERNATE CABLE TYPE TABOX-TENNIS TWS-EMG-2X2X0.5 MM CAN BE USED FOR IT. 015-
6. FOR MATERIAL DETAILS REFER SPECN. NO. TM10421
7. THIS DRG. IS SIMILAR TO CLW DRG NO. 3JEW 311882 ALT-4

NOTES:—

[illegible]

ADDITIONAL INFORMATION SIL REF. NO. 35TH 311892										TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT									
STATUS OF DRAWING										INDUCTION MOTOR FOR AC LOCOMOTIVE									
DISTRIBUTION OF PRINTS 1-1, 1-2, 1-3, 1-4, 1-5, 1-6, 1-7, 1-8, 1-9, 1-10, 1-11, 1-12, 1-13, 1-14, 1-15, 1-16, 1-17, 1-18, 1-19, 1-20, 1-21, 1-22, 1-23, 1-24, 1-25, 1-26, 1-27, 1-28, 1-29, 1-30, 1-31, 1-32, 1-33, 1-34, 1-35, 1-36, 1-37, 1-38, 1-39, 1-40, 1-41, 1-42, 1-43, 1-44, 1-45, 1-46, 1-47, 1-48, 1-49, 1-50, 1-51, 1-52, 1-53, 1-54, 1-55, 1-56, 1-57, 1-58, 1-59, 1-60, 1-61, 1-62, 1-63, 1-64, 1-65, 1-66, 1-67, 1-68, 1-69, 1-70, 1-71, 1-72, 1-73, 1-74, 1-75, 1-76, 1-77, 1-78, 1-79, 1-80, 1-81, 1-82, 1-83, 1-84, 1-85, 1-86, 1-87, 1-88, 1-89, 1-90, 1-91, 1-92, 1-93, 1-94, 1-95, 1-96, 1-97, 1-98, 1-99, 1-100, 1-101, 1-102, 1-103, 1-104, 1-105, 1-106, 1-107, 1-108, 1-109, 1-110, 1-111, 1-112, 1-113, 1-114, 1-115, 1-116, 1-117, 1-118, 1-119, 1-120, 1-121, 1-122, 1-123, 1-124, 1-125, 1-126, 1-127, 1-128, 1-129, 1-130, 1-131, 1-132, 1-133, 1-134, 1-135, 1-136, 1-137, 1-138, 1-139, 1-140, 1-141, 1-142, 1-143, 1-144, 1-145, 1-146, 1-147, 1-148, 1-149, 1-150, 1-151, 1-152, 1-153, 1-154, 1-155, 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## SIZE A1





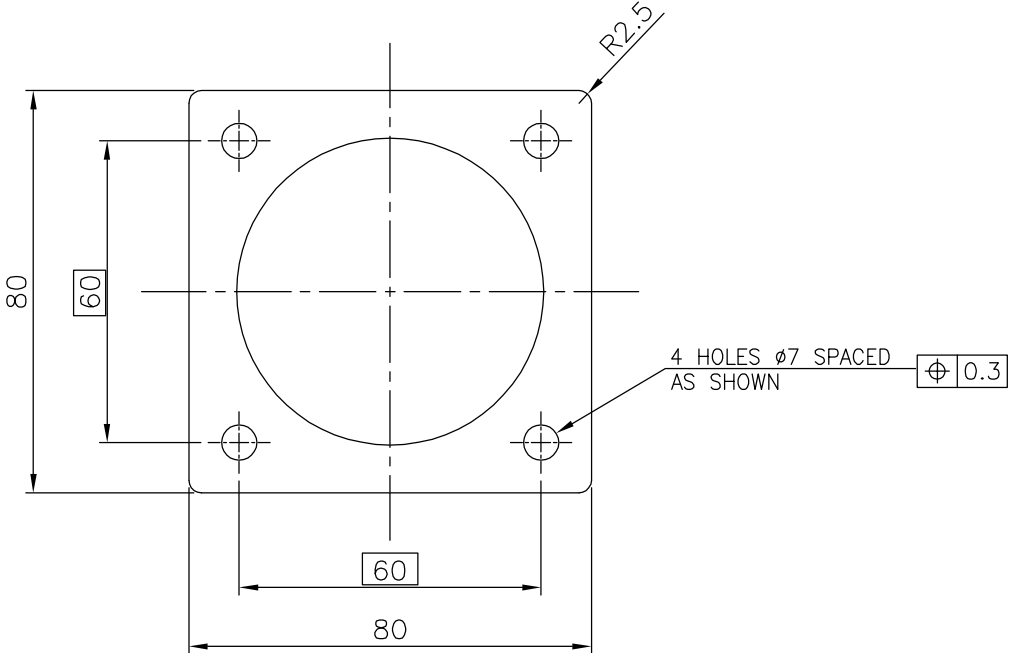





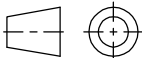


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REV.	DATE	ALTERED	REV.	DATE	ALTERED VK	ADDITIONAL INFORMATION	SIMILAR COMP. DRG.
		CHECKED			CHECKED PT		
		APPROVED			APPROVED VR		
ZONE			ZONE	DRG. REVISED IN LINE WITH CLW SPEC. NO. 4TWD.096.087		STATUS OF DRAWING	
						DISTRIBUTION OF PRINTS	TME-1, TXM-3 TNX-1



NOTE:-  
1. IT. 001 TO BE MADE FROM SILICONE RUBBER.

INVENTORY NO.	SIGN. & DATE		REF. DRG. NO.																										
									001		GASKET 2.4TKx80x80								KG		0.02								
59		64		65		75		25		27		29		58		59		34		45		55		56		58		65	
VAR00		REMARKS				ITEM NO.		DESCRIPTION								STD		MATL. CODE		A		C		UNIT		UNIT WT.			
																		MATL. SPCN.								QTY.			
		BHARAT HEAVY ELECTRICALS LTD. BHOPAL														NAME		SIGN		DATE		NO. OF VAR.							
														DRN.		ASWINI J.		-sd-		08.09.10									
														CHD.		D.K.		-sd-		08.09.10									
														APPD.		V.R.		-sd-		08.09.10									
DEPT.		TME		UNTOL. DIMS. GR.						SCALE		WEIGHT (K.G.)		REF. TO ASSY. DRG.				ITEM NO.		NO. OF ITEM									
CODE		405		TM20079 M						N.T.S.				1 445 01 64 051				003											
TITLE		<u>GASKET</u> <u>TEMPERATURE SENSOR</u> <u>6FRA 6068</u>												DRAWING NO.								REV.							
														4 445 01 64 051								01							
														SHT. NO.				01				NO. OF SHT.				01			