



HIND RECTIFIERS LTD.
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 MUMBAI – 400 078
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 Web site: [http:// www.hirect.com](http://www.hirect.com)

PHASE CONTROL THYRISTOR

H200TBXX U/M

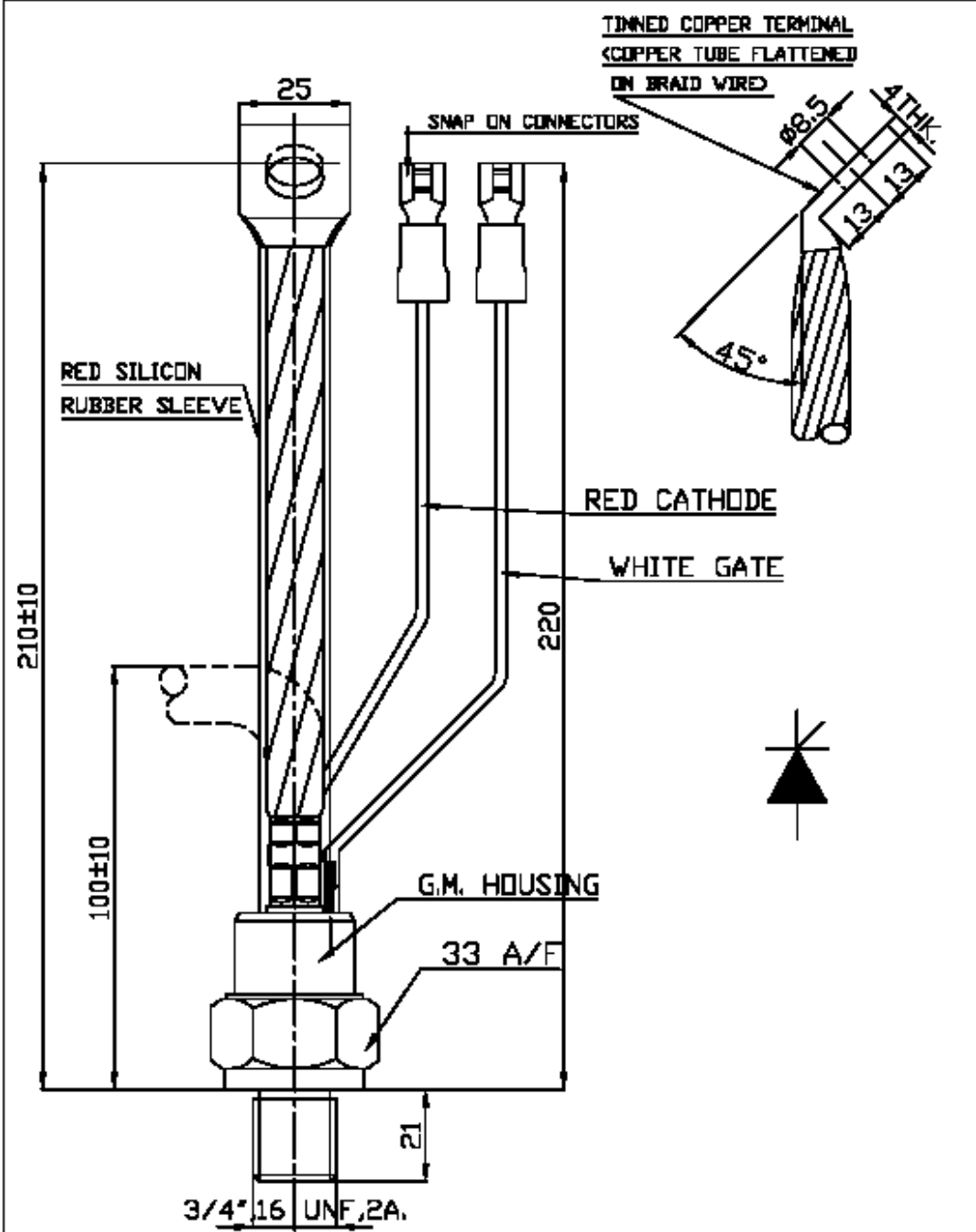
Repetitive voltage upto **1600 V**
 Average on-state current **200 A**
 Surge current **4600 A**

Symbol	Characteristic	Conditions	T _j [°C]	Value	Unit
BLOCKING					
V _{RRM}	Repetitive peak reverse voltage		125	200 - 1600	V
V _{DRM}	Repetitive peak off-state voltage		125	200 - 1600	V
I _{RRM}	Repetitive peak reverse current	V = V _{RRM}	125	30	mA
I _{DRM}	Repetitive peak off-state current	V = V _{DRM}	125	30	mA
CONDUCTING					
I _{F(AV)}	Average on-state current	180° sin ,50 Hz, T _c =85°C		200	A
I _{RMS}	RMS on-state current			314	A
I _{TSM}	Surge on-state current	Sine wave, 10 ms Without reverse voltage	125	4600	A
I ² t	I ² t			106000	A ² s
V _T	On-state voltage	On-state current = 628A	125	1.72	V
V _o	Threshold voltage		125	0.92	V
r _o	On-state slope resistance		125	0.99	mΩ
SWITCHING					
di/dt	Critical rate of rise of on-state current		125	150	A/μs
dv/dt	Critical rate of rise of off-state voltage	V _{DR} = 67%V _{DRM}	125	200 -1000	V/μs
GATE					
I _{gt}	Gate trigger current	V _D =5V	25	200	mA
I _H	Holding current	V _D =5V	25	600	mA
I _L	Latching current	V _D =5V	25	1000	mA
MOUNTING					
R _{th(j-c)}	Thermal impedance,180° conduction,sine	Junction to case		0.13	°C/W
R _{th(c-hs)}	Thermal impedance	case to heatsink		0.04	°C/W
T _j	Maximum permissible junction temperature			125	°C
T _{STG}	Storage temperature range			-40 - 125	°C
F	Mounting Torque			2.5 – 2.77	KgM
	Weight			300	g
	Outline drawing reference	For H200TBXX U.....Stud ¼"16 UNF,2A For H200TBXX M.....Stud M16x1.5		TE-7093 TE-7095	

IF IN DOUBT, ASK

SF-03-009

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TINNED COPPER TERMINAL
COPPER TUBE FLATTENED
ON BRAID WIRE

SNAP ON CONNECTORS

RED SILICON
RUBBER SLEEVE

RED CATHODE

WHITE GATE

G.M. HOUSING

33 A/F

3/4" 16 UNF, 2A.



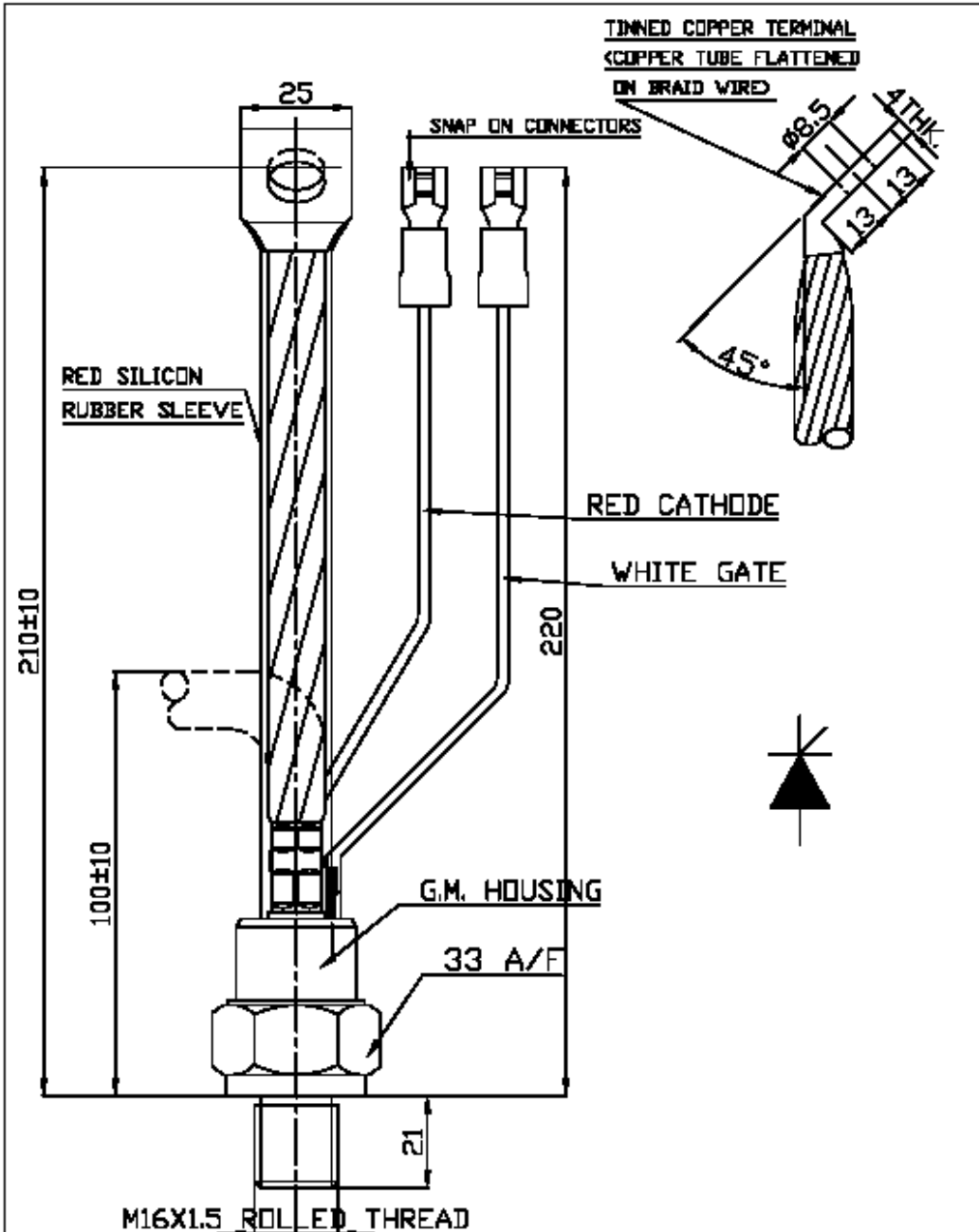
QTY.		DESCRIPTION		REF.	MAT.	P.T.	REMARKS
Sl. No.	DATE	ZONE	BRIEF RECORD OF REVISION		INITIAL		
SCALE		DR.	DATE	NAME			
DIMEN IN MM.		DR.	12/73	S.G.K.	<div style="text-align: center;">THYRISTOR</div>		
		CA	12/73				
		AP.	12/73				
TOLERANCE: 0.2		ORDER REF, EXPORT ENQUIRY			<div style="text-align: center;"> </div>		
				DRG. NO.	TE-7093		

HIND
RECTIFIERS LTD
MUMBAI 400 078,
SEMICONDUCTOR DIVISION

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Sl. No.	Date	Zone	Brief Record of Revision		Initial		
SCALE		DR.	DATE	NAME	HIND RECTIFIERS LTD MUMBAI 400 078, SEMICONDUCTOR DIVISION		
DIMEN IN MM.		DR.	12/73	S.G.K.			
		CA	12/73				
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THYRISTOR