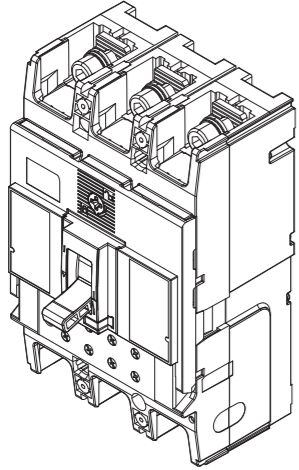


INSTALLATION INSTRUCTIONS MOULDED CASE CIRCUIT BREAKERS TEMBREAK PRO P250 3P BASIC ELECTRONIC



NHP Electrical Engineering Products Pty Ltd
A.B.N. 84 004 304 812
AUS 1300 NHP NHP | nhp.com.au
NZ 0800 NHP NHP | nhp-nz.com

TOOLS REQUIRED (NOT included)

T1 Screwdriver Flathead (5mm) T2 Screwdriver Phillips (#2) T3 17mm Socket wrench T4 6mm Allen key Socket wrench T5 17mm Ring Spanner

HARDWARE (included)

A M8x20 Socket screw (6 qty) B M8 spring washer (6 qty) C M8 flat washer (6 qty) D M4x55 mounting screws (2 qty) E Interpole Barriers (2 qty) Instruction Manual (This Document) (1 qty)

HARDWARE (NOT included)

F Lugs or Copper Bars G *M10x25 hex bolt (6 qty) H *M10 flat washer (6 qty) I *M10 Belleville washer (6 qty) J *M10 nut (6 qty)
*For extension bar connection only

OPTIONAL (NOT included)

K Extension Bars L Terminal Covers M Terminal Cover Lock N Handle Lock Internal Accessories

MOUNTING ANGLES

MOUNTING

TORQUE 1.3 - 1.7 Nm

DIMENSIONS

CLEARANCE

MCCB Cat No.	Y min (mm)	Z min (mm)
P250F	0	25
P250N	0	25
P250H	0	25

BR₁, BR₂ = Adjacent Isolators / MCCBs

CLEARANCE

INSULATION PLATE TOP PLATE (EARTHED METAL)

BR₁, BR₂ = Adjacent MCCBs

*distance from conductor insulation to downstream MCCB

MCCB Cat No.	W* min (mm)	X ₁ min (mm)	X ₂ min (mm)
P250F	50	40	30
P250N	80	80	30
P250H	80	80	30

OPERATING INSTRUCTIONS

I (ON) O (OFF) TRIP RESET TRIPPED

Operation	Force (Nm)
OFF → ON	55
ON → OFF	40
TRIP → OFF	65

Trip Button

DIRECTION OF POWER SUPPLY

OR

INTERNAL ACCESSORIES ASSEMBLY PROCEDURE*

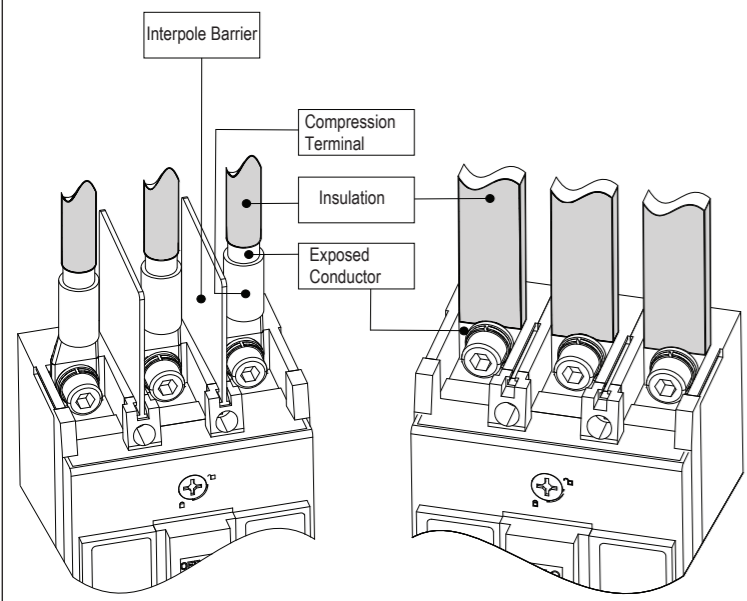
STEP 1 TRIP MCCB **STEP 2** OPEN COVER **STEP 3** IDENTIFY TRIP BAR & MECHANISM

STEP 4 UVT/SHUNT INSTALLATION **STEP 5** CLOSE MCCB COVER

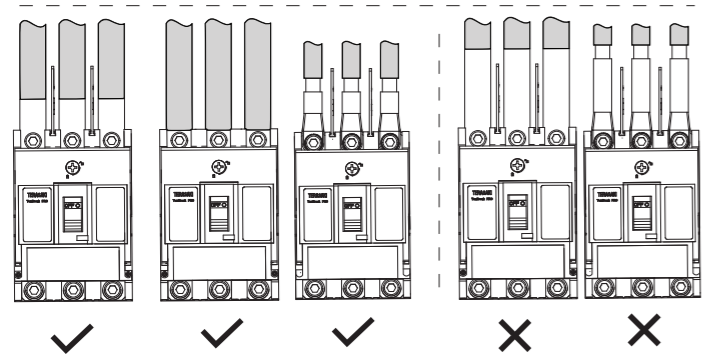
STEP 4.1 SHUNT INSTALLATION **STEP 4.2** ALARM INSTALLATION

*For additional internal accessory installations, scan QR code and refer to user manual for more details

TOPSIDE INSULATION RECOMMENDATIONS – 415 / 440V AC

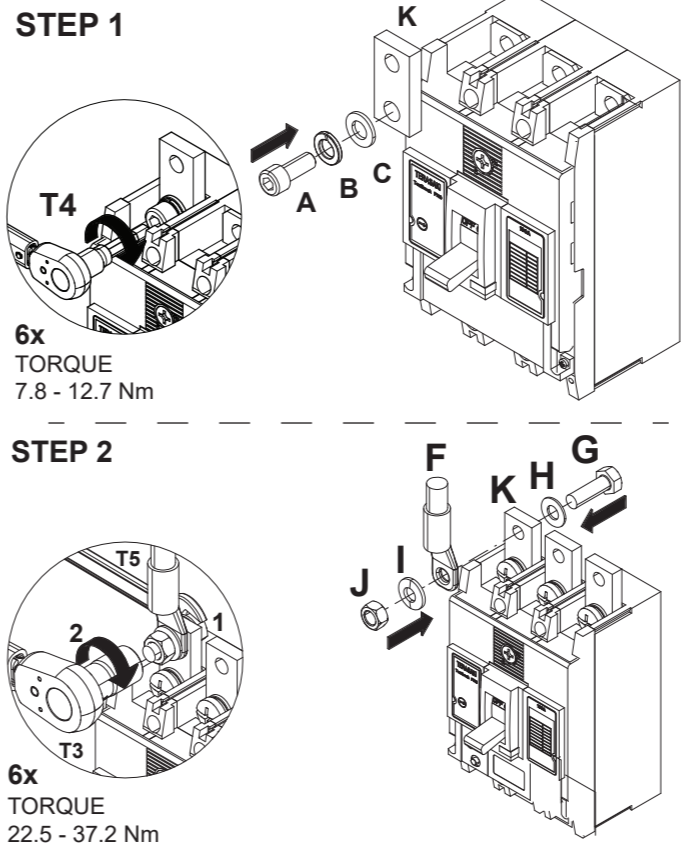
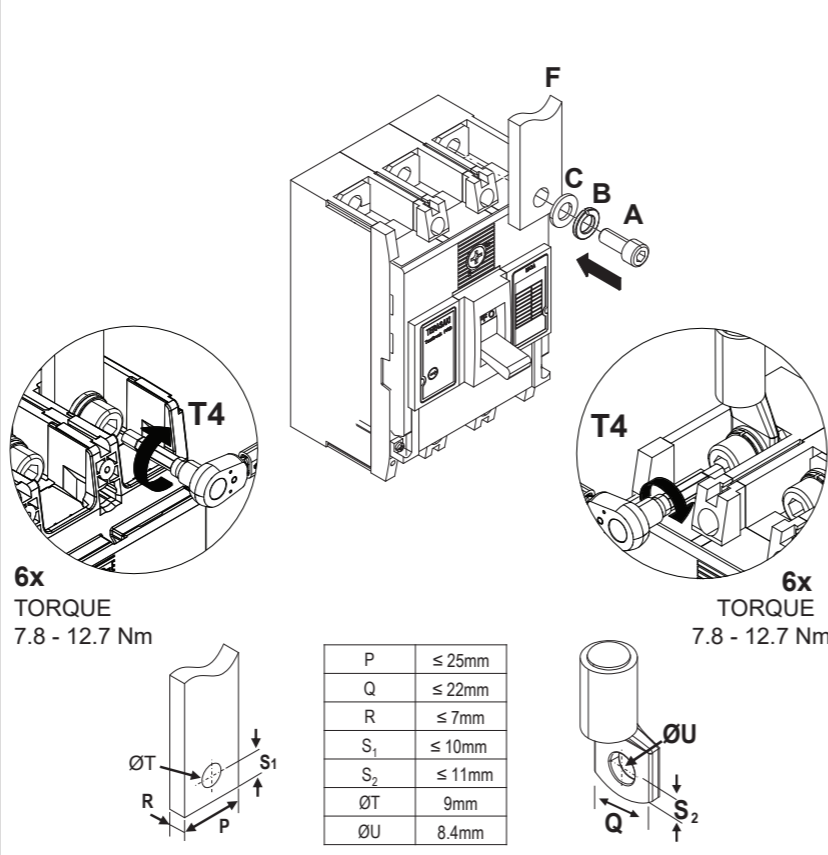


NOTE: Insulate the exposed conductor to achieve IP2X or protect from finger access.

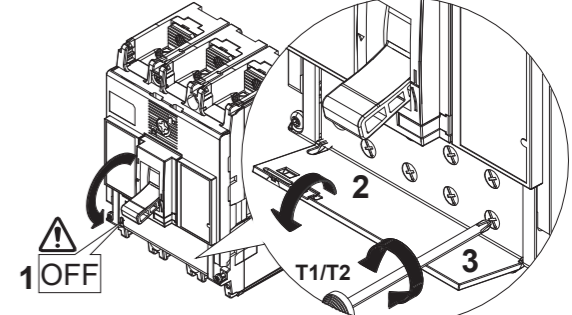


CONDUCTOR CONNECTION PROCEDURE -- FRONT CONNECTION -- EXTENSION BAR CONNECTION PROCEDURE

A	M8x20 Socket screw	F	Lug or copper bar	I	M10 Belleville washer
B	M8 Spring washer	G	M10x25 hex bolt	J	M10 Nut
C	M8 Flat washer	H	M10 Flat washer	K	Extension Bar



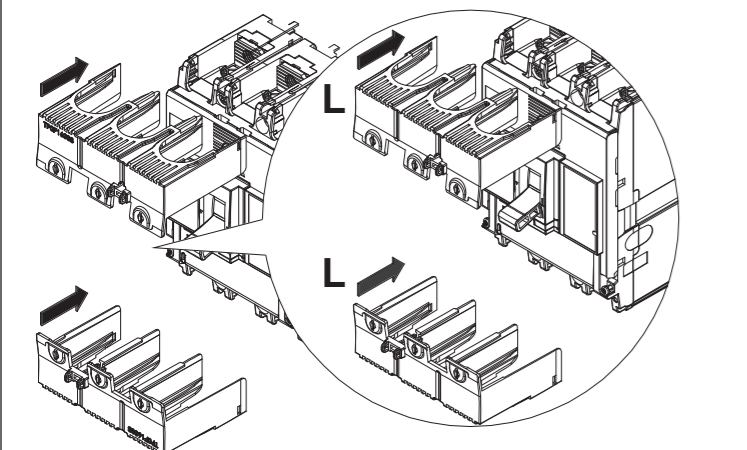
TRIP UNIT ADJUSTMENT PROCEDURE



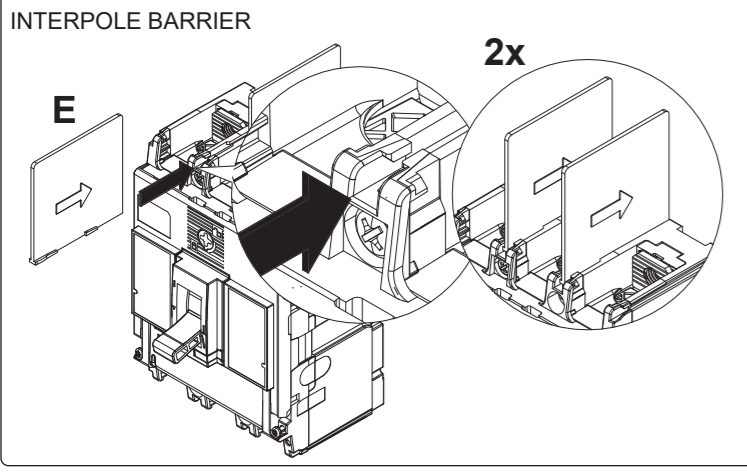
Protection Settings		
L	$I_{r1} I_{r2}$	Threshold Long Time Protection (Rated Current)
	t_r	Long Time Delay (Time Delay)
S	I_{sd}	Threshold Short Time Protection
	t_{sd}	Short Time Delay
	I^2t ON / OFF	I^2t curve on Short delay protection activated or not
I	I_i	Instantaneous Protection Threshold
GF	I^2t ON/OFF	I^2t curve on Earth Protection Activated (ON) or not activated. (OFF)

NOTE: The I_r (Rated Current) threshold is firstly set using the I_{r1} MAX adjustment dial. If necessary , fine adjustments of 1% increments of I_{r1} are possible using the I_{r2} dial from 0.92 to 1.
 NOTE: The t_r time delay defines the trip time of the long-time delay protection for a current of $6 \times I_r$.
 NOTE: The Ground Fault Protection can be turned ON and OFF using the GF dial for a current of $0.4 \times I_n$.
FOR MORE INFORMATION, PLEASE SCAN THE QR CODE

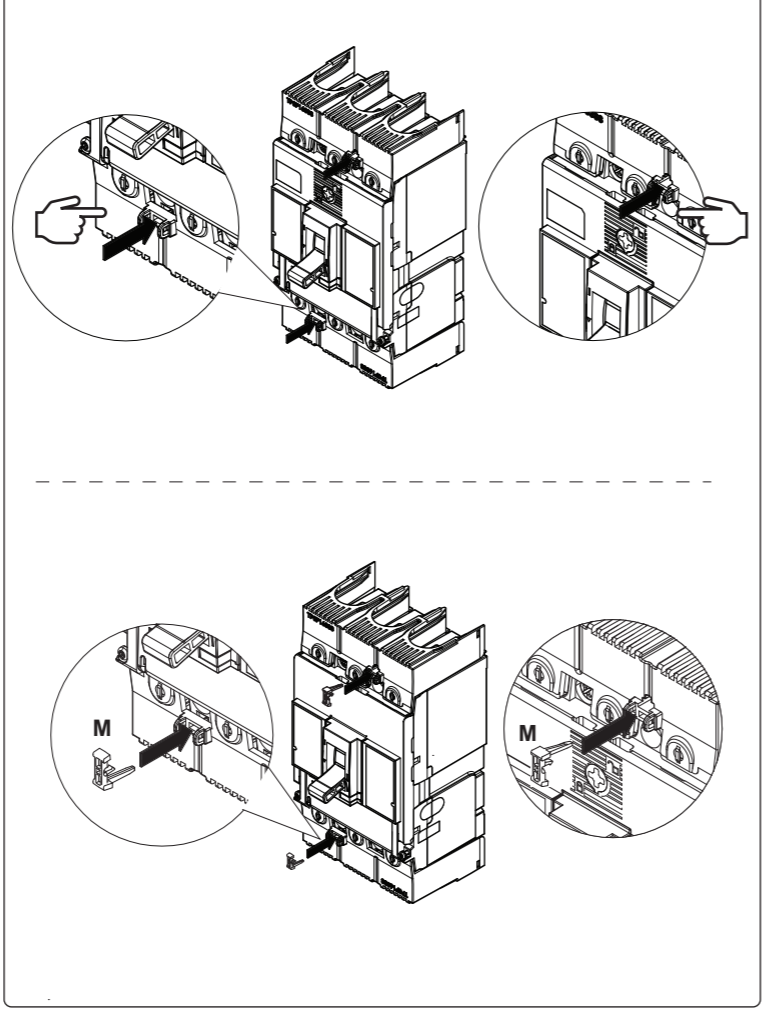
TERMINAL COVER



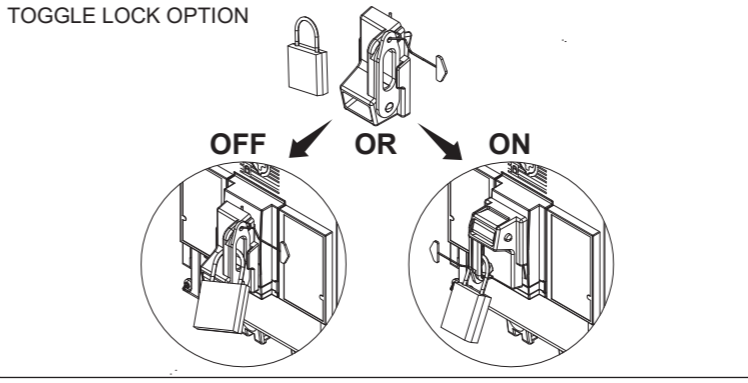
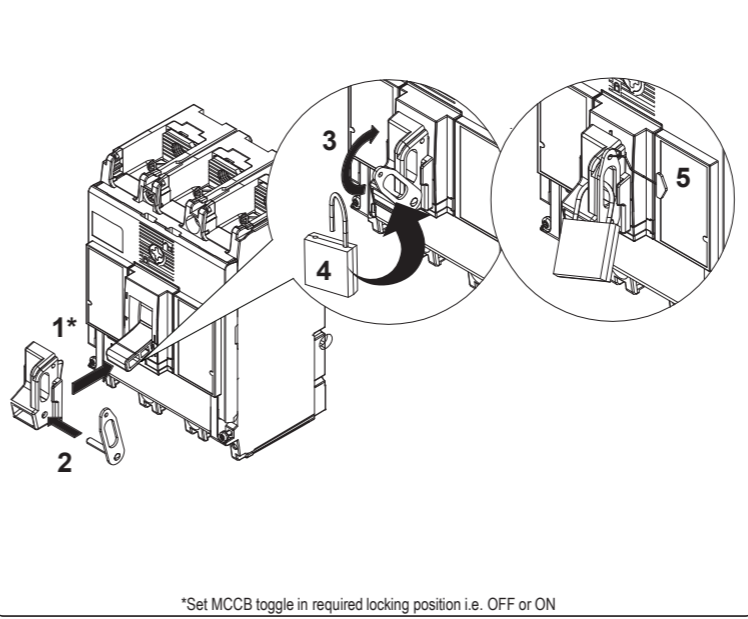
OR



TERMINAL COVER LOCK



TOGGLE LOCK / PADLOCK ASSEMBLY PROCEDURE



TIME CURRENT CHARACTERISTIC CURVE

