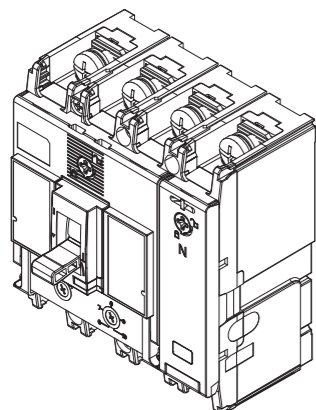




INSTALLATION INSTRUCTIONS MOULDED CASE CIRCUIT BREAKERS TEMBREAK PRO P160 4P THERMAL MAGNETIC



NHP Electrical Engineering Products Pty Ltd
A.B.N. 64 004 304 812
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 13mm Socket wrench
- T4 13mm Ring Spanner

HARDWARE (included)

- A M8x16 Slotted Philips screw (8 qty)
- B M8 spring washer (8 qty)
- C M8 flat washer (8 qty)
- D M4x62 mounting screws (2 qty)
- E Interpole Barriers (3 qty)
- Instruction Manual (This Document) (1 qty)

HARDWARE (NOT included)

- F Lugs or Copper Bars
- G *M8x25 hex bolt (8 qty)
- H *M8 flat washer (8 qty)
- I *M8 Belleville washer (8 qty)
- J *M8 nut (8 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

Dimensions: 84, 50, 114, 130, 24, 102, 45, 22, 90, 120, 53, 60, 6.5, 95.5, 72: Panel cutout

CLEARANCE

BR₁, BR₂ = Adjacent Isolators / MCCBs

MCCB Cat No.	Y min (mm)	Z min (mm)
P160F	0	25
P160N	0	25
P160H	0	25

CLEARANCE

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)
P160F	50	10	10
P160N	75	45	25
P160H	75	45	25

OPERATING INSTRUCTIONS

Operation Force (Nm)

OFF → ON	40
ON → OFF	30
TRIP → OFF	60

DIRECTION OF POWER SUPPLY

INTERNAL ACCESSORIES ASSEMBLY PROCEDURE*

STEP 1 TRIP MCCB

STEP 2 OPEN COVER

STEP 3 IDENTIFY TRIP BAR & MECHANISM

STEP 4 UVT/SHUNT INSTALLATION

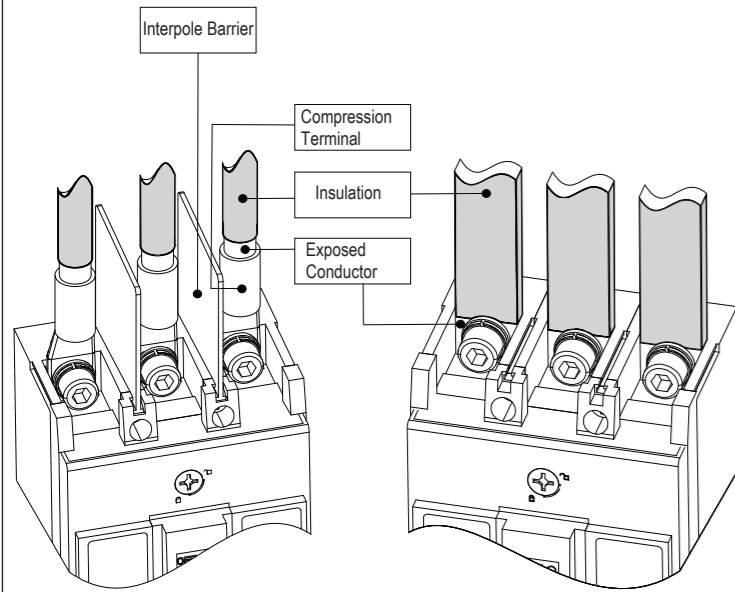
STEP 4.1 UVT/SHUNT

STEP 4.2 ALARM INSTALLATION

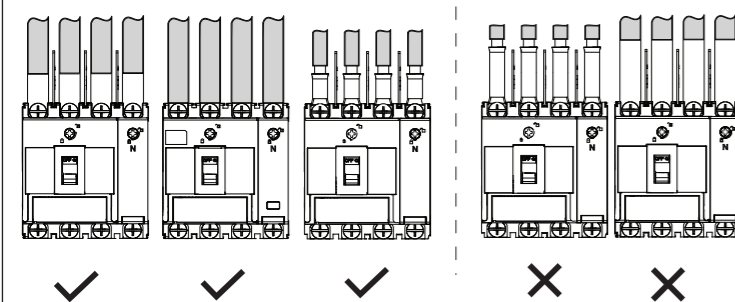
STEP 5 CLOSE MCCB COVER

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

TOPSIDE INSULATION RECOMMENDATIONS – 415 / 440V AC

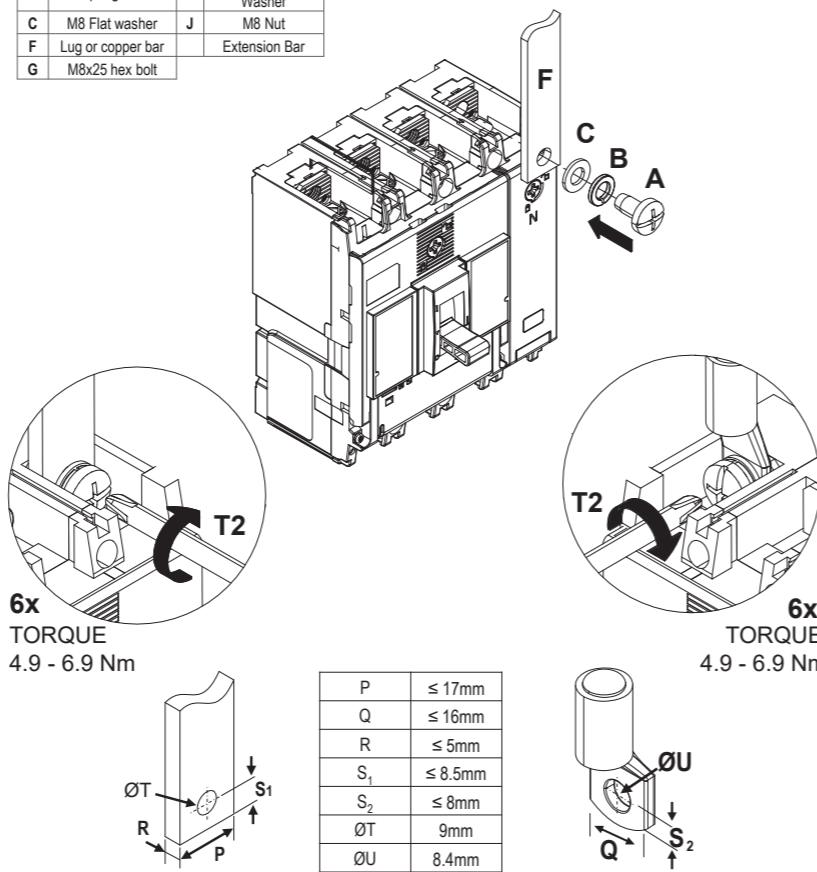


NOTE: Insulate the exposed conductor to achieve IP2X or protect from finger access.

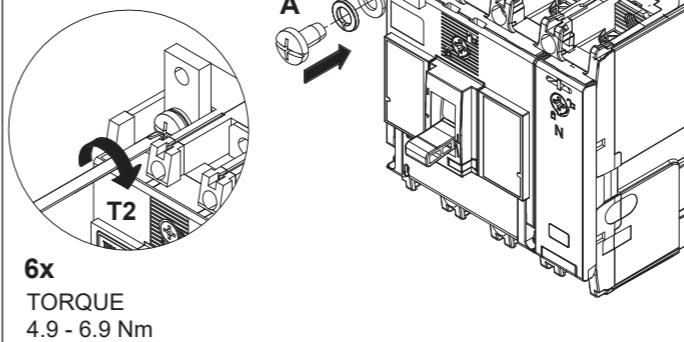


CONDUCTOR CONNECTION PROCEDURE -- FRONT CONNECTION -- EXTENSION BAR CONNECTION PROCEDURE

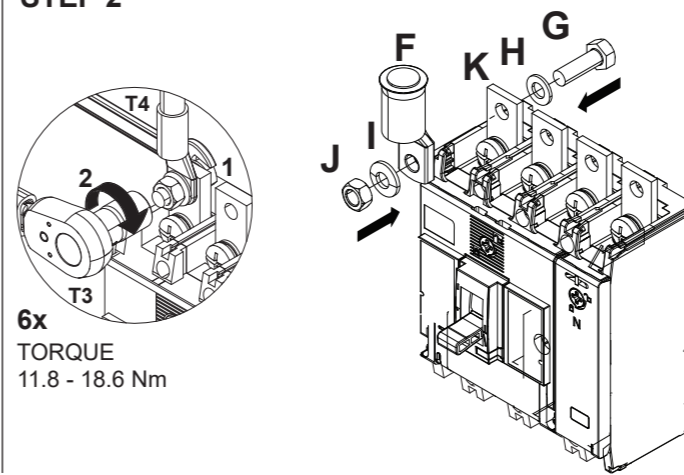
A	M8x16 Phillips screw	H	M8 Flat washer
B	M8 Spring washer	I	M8 Belleville Washer
C	M8 Flat washer	J	M8 Nut
F	Lug or copper bar		Extension Bar
G	M8x25 hex bolt		



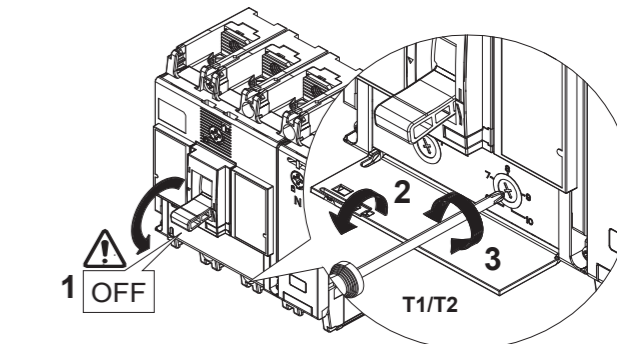
STEP 1



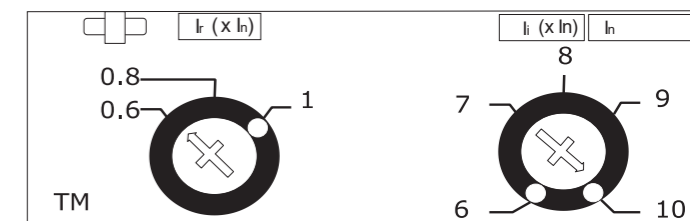
STEP 2



TRIP UNIT ADJUSTMENT PROCEDURE



I _n (A)	Protection Settings	
	I _r (A)	I _i (A)
20, 32, 50, 100, 125	0.63 - 1.0	6 - 8 - 10 - 12
63	0.80 - 1.0	
160	0.63 - 1.0	6 - 7 - 8 - 9 - 10

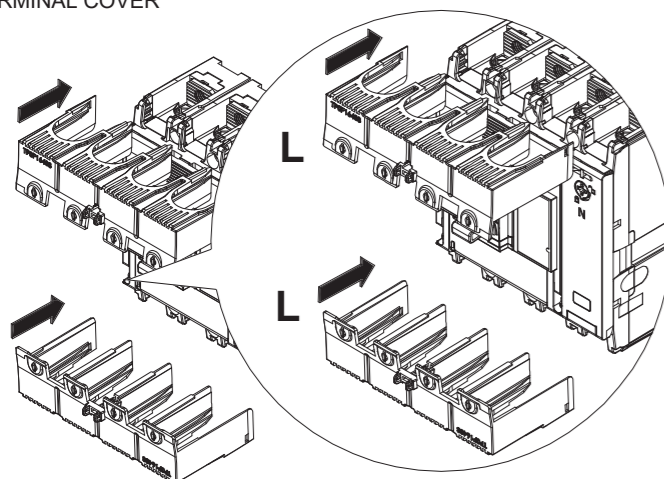


A selector switch is provided in the N-pole which allows the Thermal Long Time Delay to be switched OFF or ON. N-pole instantaneous (I_i) tripping will remain ON at all times.



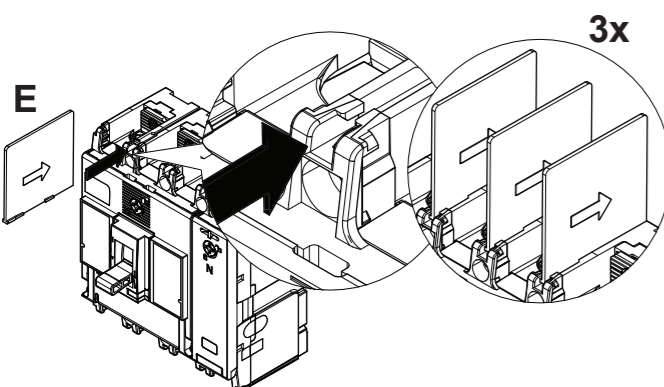
NOTE: The adjustable I_r range of P160_63TM is 0.8 - 1.0

TERMINAL COVER

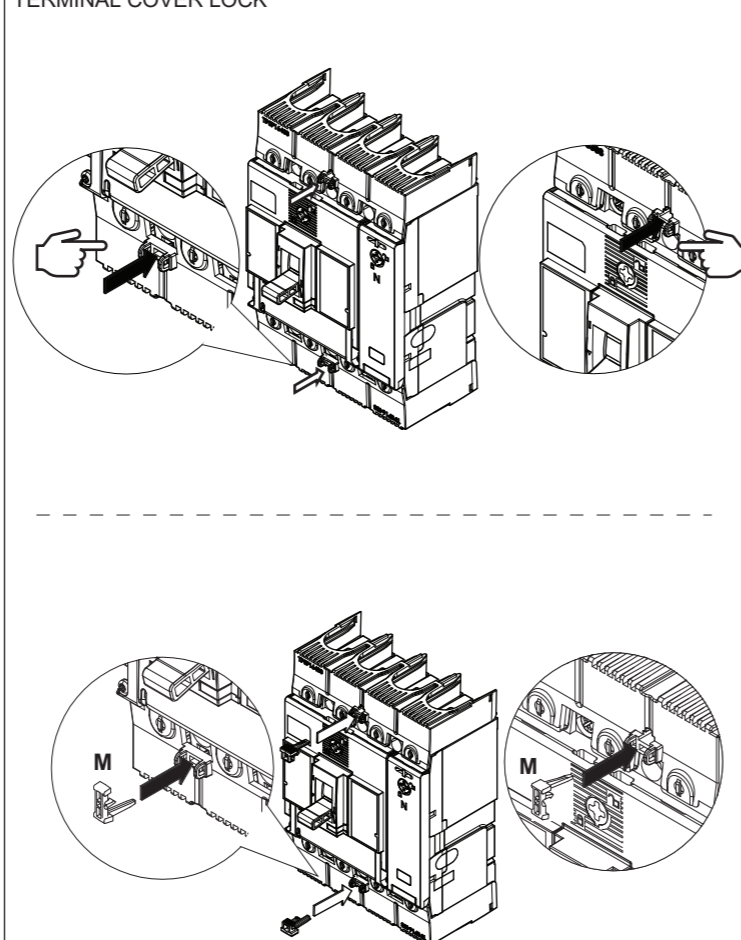


OR

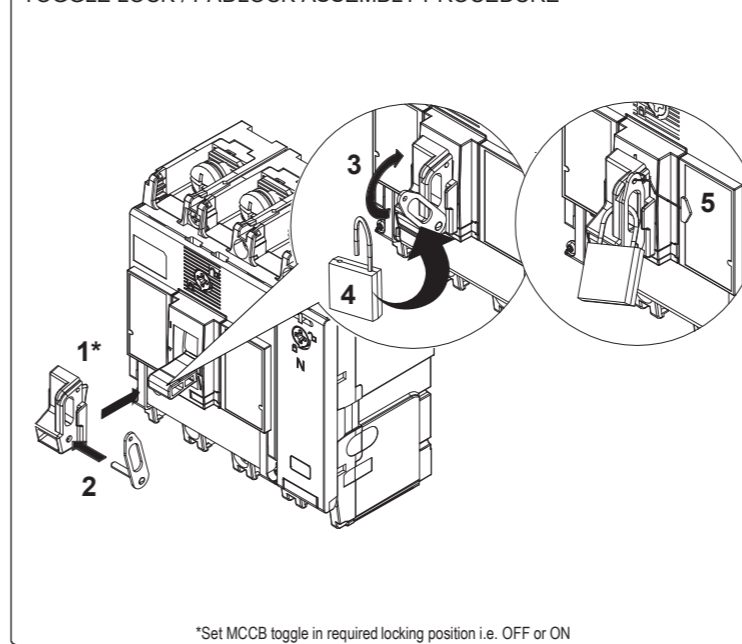
INTERPOLE BARRIER



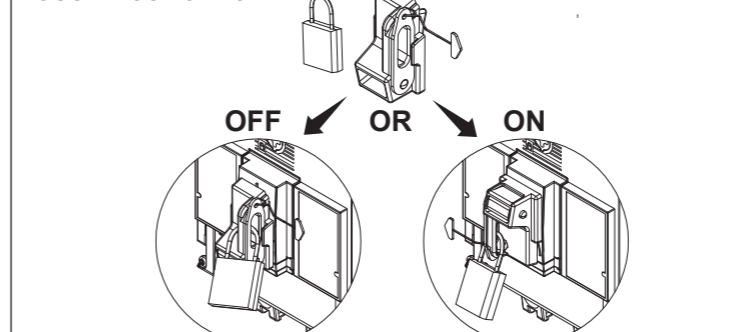
TERMINAL COVER LOCK



TOGGLE LOCK / PADLOCK ASSEMBLY PROCEDURE



TOGGLE LOCK OPTION



TIME CURRENT CHARACTERISTIC CURVE

