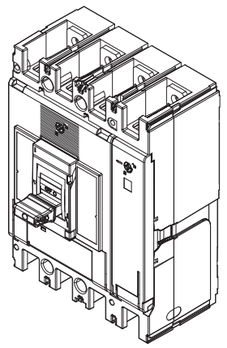
INSTALLATION INSTRUCTIONS
MOULDED CASE CIRCUIT BREAKERS
TEMBREAK PRO
P630 4P BASIC ELECTRONIC



NHP Electrical Engineering Products Pty Ltd
A.B.N. 84 004 304 812

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SCAN ME

TOOLS REQUIRED (NOT included)

T1	T2	T3	T4	T5
Screwdriver Flathead (5mm)	Screwdriver Phillips (#2)	19mm Socket wrench	8mm Allen key Socket wrench	19mm Ring Spanner

HARDWARE (included)

A	B	C	D	E	
M10x30 Socket Screw (8 qty)	M10 spring washer (8 qty)	M10 flat washer (8 qty)	M6x100 mounting screws (4 qty)	Interpole Barriers (3 qty)	Instruction Manual (This Document)

HARDWARE (NOT included)

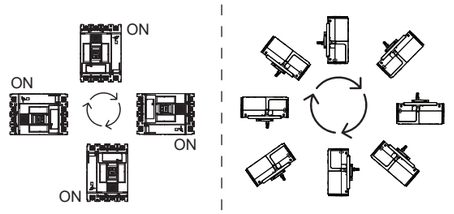
F	G	H	I	J
Cable Lug or Copper Bar	*M12x40 hex bolt (8 qty)	*M12 flat washer (8 qty)	*M12 Belleville washer (8 qty)	*M12 nut (8 qty)

*For extension bar connection only

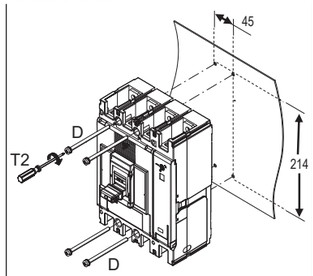
OPTIONAL (NOT included)

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

MOUNTING ANGLES

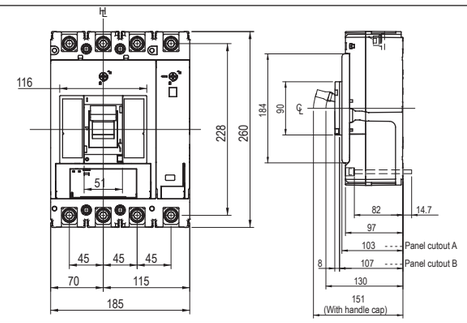


MOUNTING

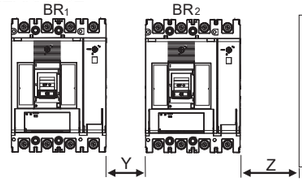


TORQUE
4.6 - 6 Nm

DIMENSIONS



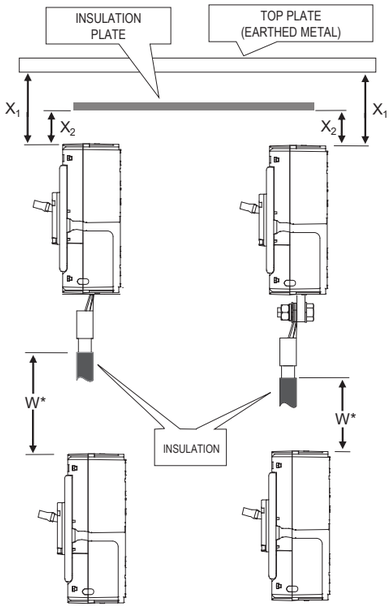
CLEARANCE



MCCB Cat No.	Y min (mm)	Z min (mm)
P630F	0	80
P630N		
P630H		
P630S	0	80

BR1 ,BR2= Adjacent Isolators / MCCBs

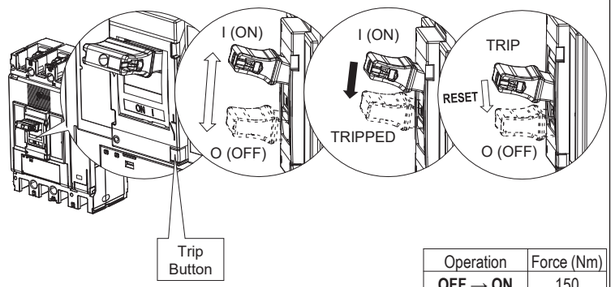
CLEARANCE



*distance from conductor insulation to downstream MCCB

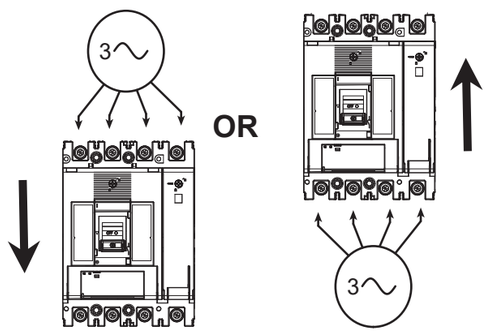
MCCB Cat No.	W* min (mm)	X1 min (mm)	X2 min (mm)
P630F	100	80	60
P630N			
P630H			
P630S	120	120	80

OPERATING INSTRUCTIONS



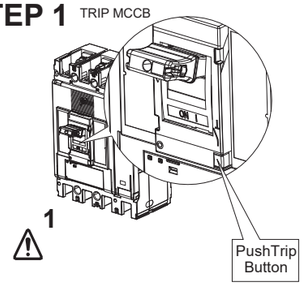
Operation	Force (Nm)
OFF → ON	150
ON → OFF	130
TRIP → OFF	162

DIRECTION OF POWER SUPPLY

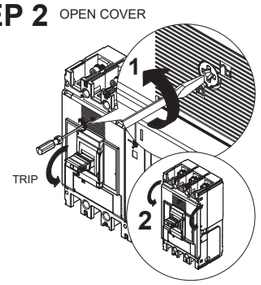


INTERNAL ACCESSORIES ASSEMBLY PROCEDURE*

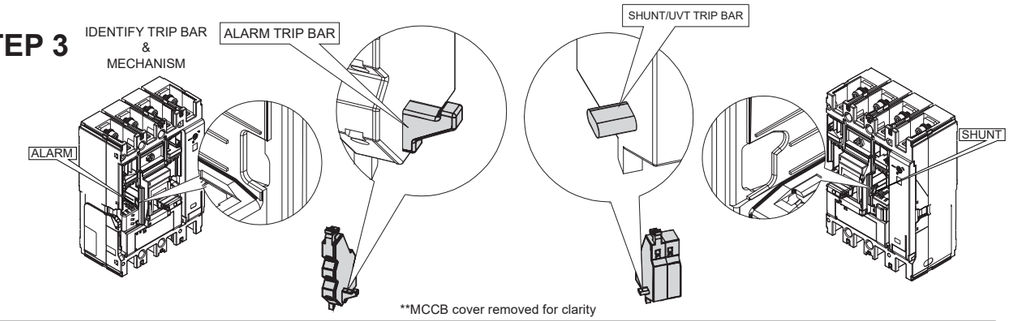
STEP 1 TRIP MCCB



STEP 2 OPEN COVER

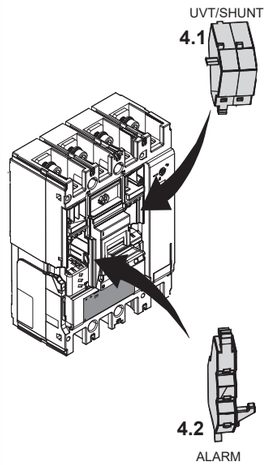


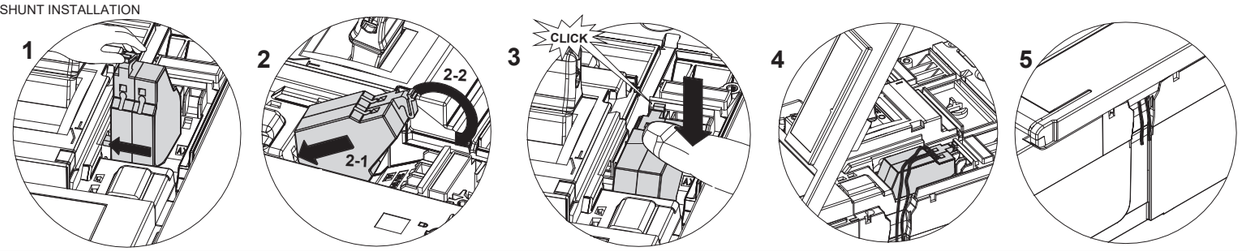
STEP 3



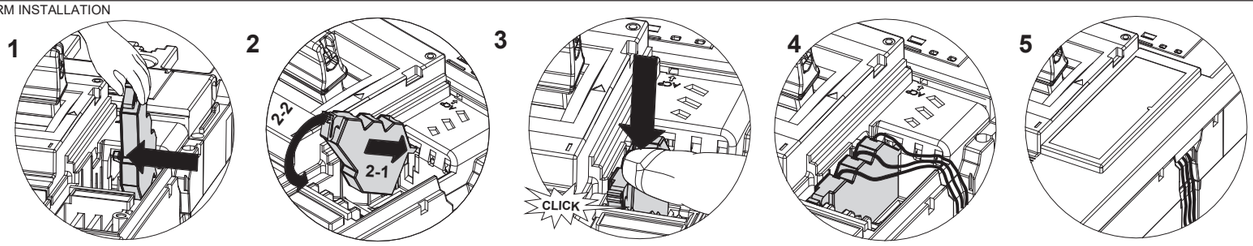
**MCCB cover removed for clarity

STEP 4.1 UVT/SHUNT INSTALLATION

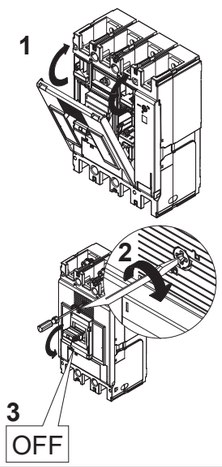




STEP 4.2 ALARM INSTALLATION



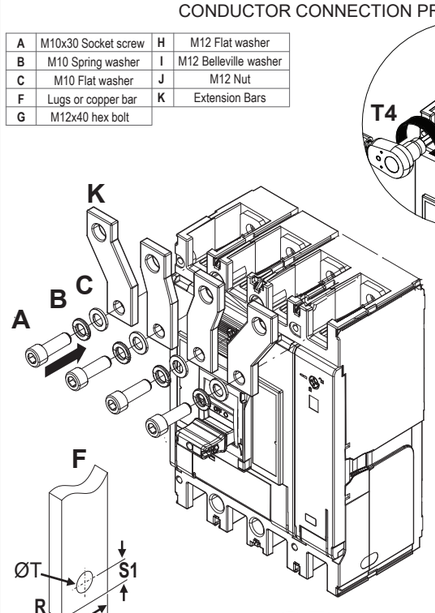
STEP 5 CLOSE MCCB COVER



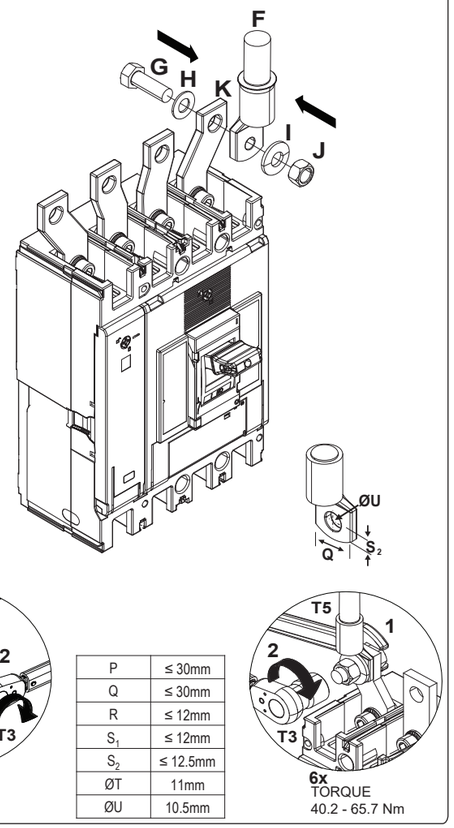
*For additional internal accessory installations, scan QR code and refer to user manual for more details

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

A	M10x30 Socket screw	H	M12 Flat washer
B	M10 Spring washer	I	M12 Belleville washer
C	M10 Flat washer	J	M12 Nut
F	Lugs or copper bar	K	Extension Bars
G	M12x40 hex bolt		



P	≤ 30mm
Q	≤ 30mm
R	≤ 12mm
S_1	≤ 12mm
S_2	≤ 12.5mm
ØT	11mm
ØU	10.5mm



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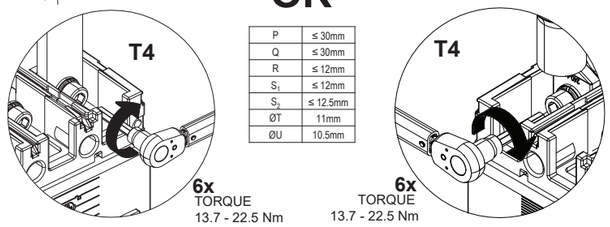
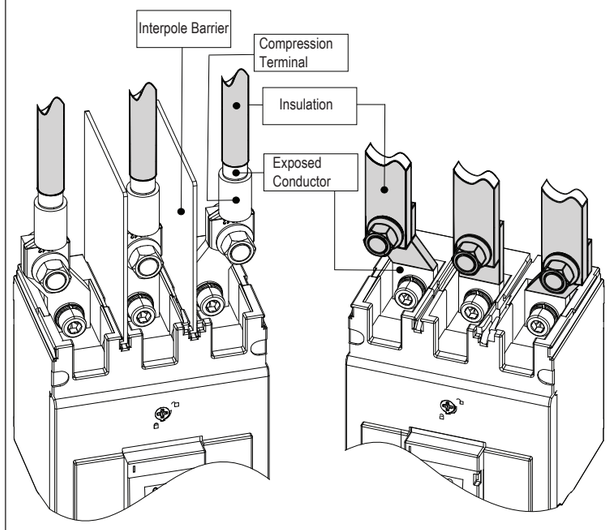
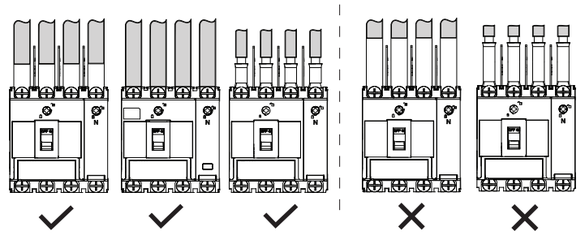


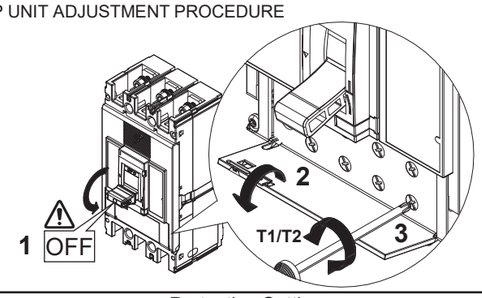
TOPSIDE INSULATION RECOMMENDATIONS – 415 / 440V AC



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



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)

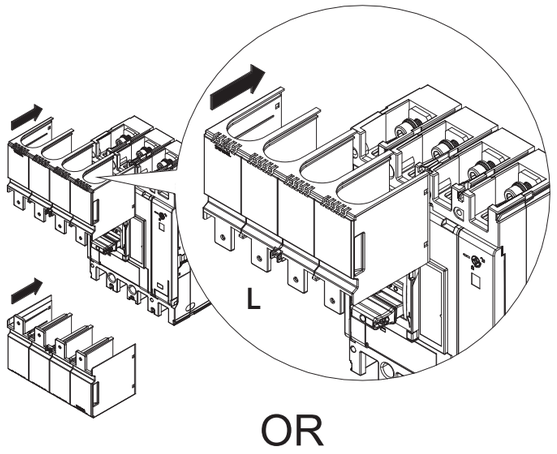
NOTE: The I_r (Rated Current) threshold is firstly set using the I_{r1} MAX adjustment dial. If necessary , fine adjustments of 1% increments of I_{r1} are possible using the I_{r2} dial from 0.92 to 1.

NOTE: The t_r time delay defines the trip time of the long-time delay protection for a current of 6 x I_r

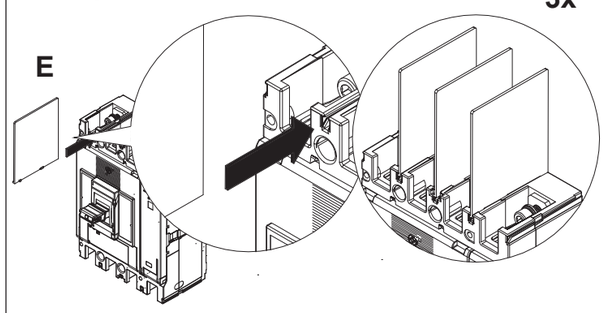
NOTE: The Ground Fault Protection can be turned ON and OFF using the GF dial for a current of 0.4 x In.

FOR MORE INFORMATION, PLEASE SCAN THE QR CODE

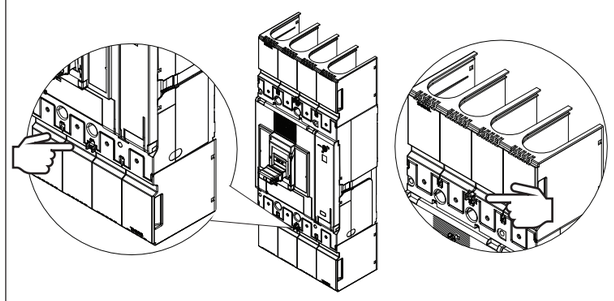
TERMINAL COVER MOUNTING PROCEDURE

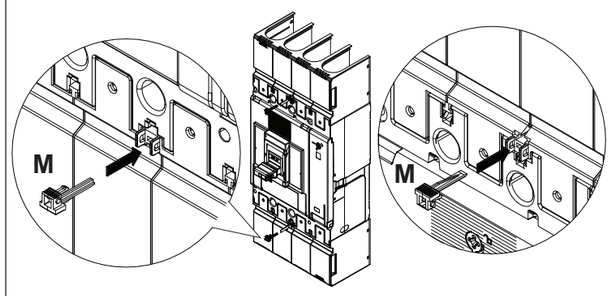


INTERPOLE BARRIER

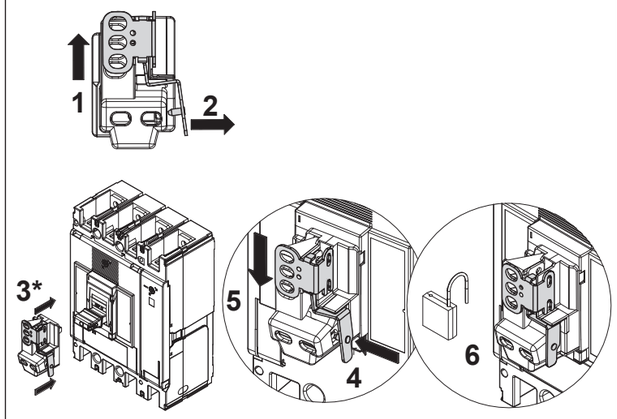


TERMINAL COVER LOCK



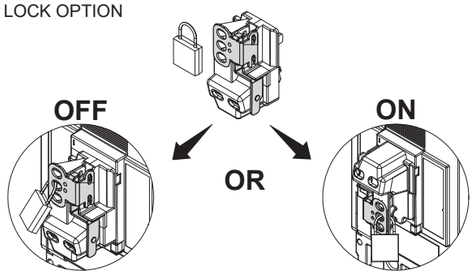


TOGGLE LOCK / PADLOCK ASSEMBLY PROCEDURE

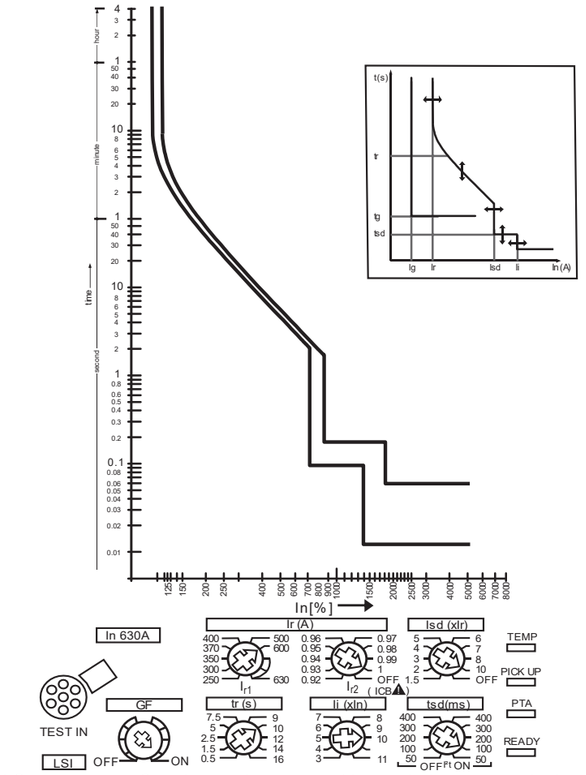


*Set MCCB toggle in required locking position i.e. OFF or ON

TOGGLE LOCK OPTION



TIME CURRENT CHARACTERISTIC CURVE



NOTE: When I_{r2} is OFF , the long time and short time protections are deactivated, and only instantaneous protection (ICB) is activated