

P160N24160TM

Terasaki TemBreak PRO MCCB 160 Frame 50kA 4P 160A Adj.
Therm. Adj. Mag.



TERASAKI
Innovators in Protection Technology



Component type	Power switching circuit breaker
Range	TemBreak PRO
Model	N/A
Product status	Existing

The latest innovation of MCCBs from Terasaki, offering superior performance and versatility.

Rated current I_n	160.0 A
Number of poles	4.0
Max. rated operation voltage U_e AC	690.0 V
Rated ultimate short-circuit breaking capacity I_{cu} at 415 V, 50 Hz	50.0 kA
Rated service short-circuit breaking capacity I_{cs} at 415 V, 50 Hz	50.0 kA
Type of protection trip unit	Thermal/magnetic release
Trip curve	Adj. thermal, adj. magnetic
Frame size rating	160.0 A
Long time overload protection adjustment range	100 - 160 A
Position of connection for main current circuit	Front side
Instantaneous protection adjustment range	960 - 1600 A
Rated frequency	50 - 60 Hz
Rated insulation voltage U_i	800.0 V
Suitable for isolation	Yes
Rated short circuit breaking capacity, I_{cu} 690V AC	6.0 kA
Rated short circuit breaking capacity, I_{cs} 690V AC	6.0 kA
Rated impulse withstand voltage U_{imp}	8.0 kV
Over voltage category	IV
Reverse connection of supply possible	Yes
AC power loss per pole at I_n	14.1 W
Electrical life at U_n, I_n (service cycles)	30000.0 cycles
Type of electrical connection of main circuit	Screw connection
Power loss at rated current	42.3 W

ELECTRICAL

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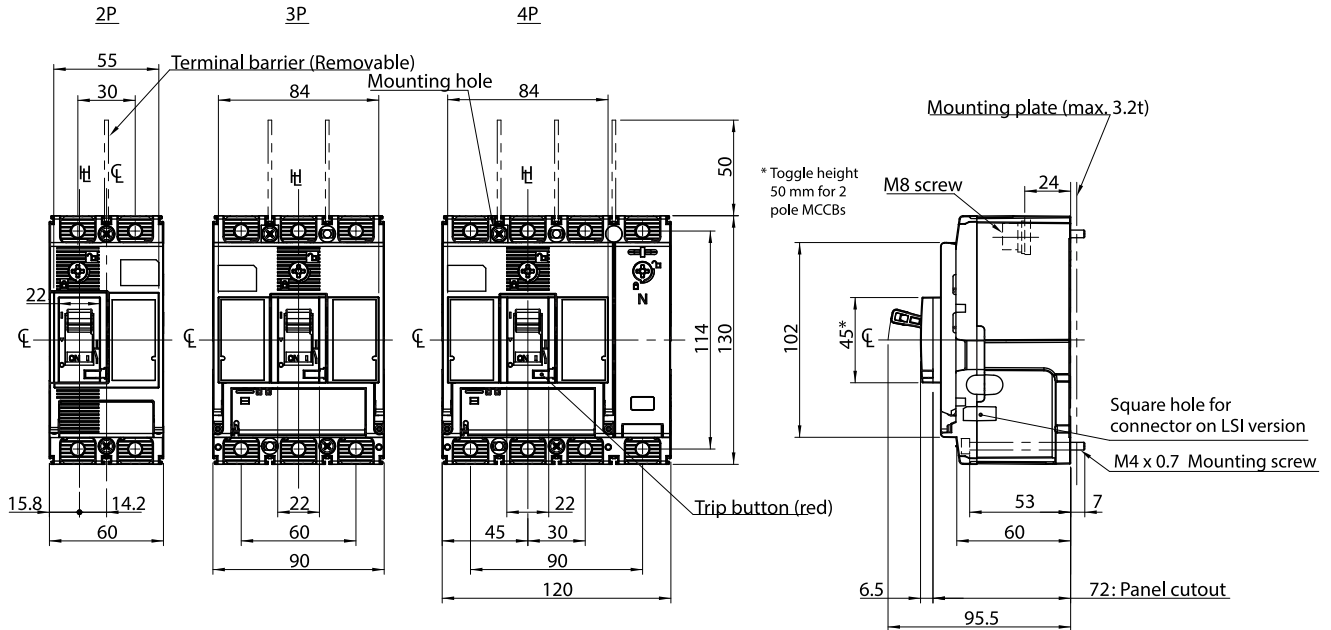
MECHANICAL	Connectable conductor cross section	1.5 - 70 mm ²
	DIN rail (top hat rail) mounting optional	Yes
	Mechanical life (service cycles)	50000.0 cycles
	Vibration acceleration (Max)	19.0 m/s ²
	Vibration frequency, operational (Max)	16.7 Hz
	Vibration duration (Max)	12.0 min
DIMENSIONS	Height	130.0 mm
	Width	120.0 mm
	Pole connection pitch	30.0 mm
	Built-in depth	68.0 mm
	Depth (toggle included)	95.5 mm
	Weight	1.3 kg
ENVIRONMENT	Pollution degree	3.0
	Rated surrounding temperature without derating	50.0 °C
	Ambient temperature during operating	-5 - 70 °C
	Max. temperature	70.0 °C
	Storage temperature	-10 - 70 °C
	Allowable relative humidity	0 - 85 %
Altitude before derating (Max)	2000.0 m	
CERTIFICATES/APPROVALS	Standard	AS/NZS IEC 60947.2

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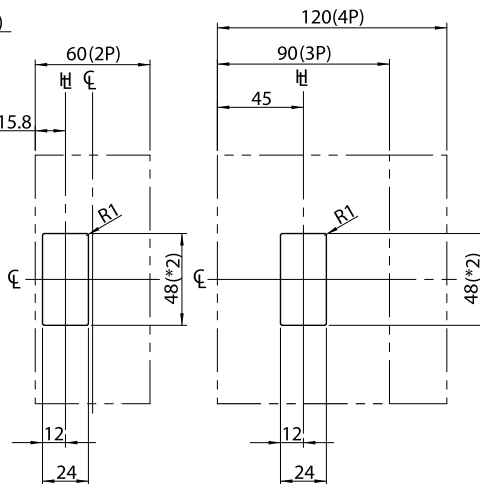
DIMENSIONAL DIAGRAM



Panel cutout (top view)

for Cutout B

Panel cutout dimensions shown give an allowance of 1.0 mm or more around the handle escutcheon



(*2) Cutout 52 mm for 2 pole MCCBs

Preparation of conductor

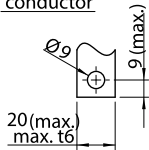
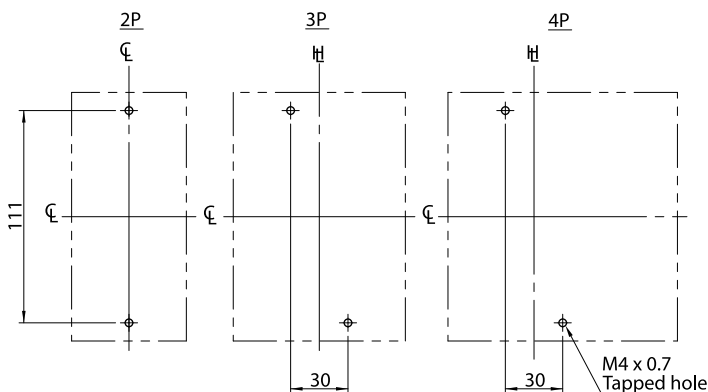


Table for square hole for connector on LSI version

Type of OCR for LSI version	A pole (PAP)		C/N pole (ECP)	
	3P	4P	3P	4P
LSI	Hole	Hole	no	no
LSIG	Hole	Hole	Hole	no

Drilling plan (top view)



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RELATED PRODUCTS

ACCESSORY



Item No: T2AL00LML3STA

Required: No

Description: Terasaki TemBreak PRO Alarm Switch for A and P Models 1 CO Contact Left Side Mounting General Type



Item No: T2HSESC100

Required: No

Description: Terasaki TemBreak 2 Handle Label Plate 100mm MCCBs



Item No: T2AL00LML3SWA

Required: No

Description: Terasaki TemBreak PRO Alarm Switch for A and P Models 1 CO Contact Left Side Mounting Wired Type



Item No: T2SH00LA10T

Required: No

Description: Terasaki TemBreak PRO Shunt Trip for A/P Models 110V AC



Item No: T2AX00LML3RWA

Required: No

Description: Terasaki TemBreak PRO Auxiliary Switch for A and P Models 1 CO Contact Micro Switch Wired Type



Item No: T2SH00LA10WA

Required: No

Description: Terasaki TemBreak PRO Shunt Trip for A/P Models 110-120V AC Wired Type



Item No: T2AX00LML3STA

Required: No

Description: Terasaki TemBreak PRO Auxiliary Switch for A and P Models 1 CO Contact General Type



Item No: T2SH00LA20T

Required: No

Description: Terasaki TemBreak PRO Shunt Trip for A/P Models 230-240V AC



Item No: T2AX00LML3SWA

Required: No

Description: Terasaki TemBreak PRO Auxiliary Switch for A and P Models 1 NO Contact 1 NC Contact Wired Type



Item No: T2SH00LA40T

Required: No

Description: Terasaki TemBreak PRO Shunt Trip for A/P Models 400-415V AC



Item No: T2BA16L3SH

Required: No

Description: Terasaki TemBreak PRO Interpole Barriers for A160/P160 Qty 2



Item No: T2SH00LA40WA

Required: No

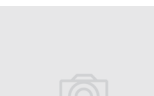
Description: Terasaki TemBreak PRO Shunt Trip for A/P Models 380-450V AC Wired Type



Item No: T2CF253WC

Required: No

Description: Terasaki TemBreak 2 Terminal Screen Front Connect for E250/S250 3P MCCBs



Item No: T2SH00LD02T

Required: No

Description: Terasaki TemBreak PRO Shunt Trip for A/P Models 24V DC



Item No: T2HL25L

Required: No

Description: Terasaki TemBreak PRO Non Captive Toggle Lock 5 x 16.5mm Slot for A160/A250/P160/P250



Item No: T2SH00LD02WA

Required: No

Description: Terasaki TemBreak PRO Shunt Trip for A/P Models 24V DC Wired Type



Item No: T2HS250SHAFT

Required: No

Description: Terasaki TemBreak 2 Handle Shaft 90mm for 125/250 MCCBs



Item No: T2SH00LD04WA

Required: No

Description: Terasaki TemBreak PRO Shunt Trip for A/P Models 48V DC Wired Type



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RELATED PRODUCTS

ACCESSORY



Item No: T2SH00LD10WA

Required: No

Description: Terasaki TemBreak PRO Shunt Trip for A/P Models 110-120V DC Wired Type



Item No: T2SH00LD20WA

Required: No

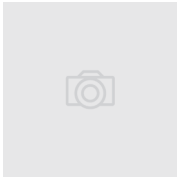
Description: Terasaki TemBreak PRO Shunt Trip for A/P Models 200-240V DC Wired Type



Item No: T2UV00LA10NWA

Required: No

Description: Terasaki TemBreak PRO Undervoltage Trip Instantaneous for A/P Models 100-120V AC Wired Type



Item No: T2UV00LA20NT

Required: No

Description: Terasaki TemBreak PRO Undervoltage Trip Instantaneous for A/P Models 230 to 240V AC



Item No: T2UV00LA20NWA

Required: No

Description: Terasaki TemBreak PRO Undervoltage Trip Instantaneous for A/P Models 200-240V AC Wired Type



Item No: T2UV00LA40NWA

Required: No

Description: Terasaki TemBreak PRO Undervoltage Trip Instantaneous for A/P Models 380-450V AC Wired Type



Item No: T2UV00LD02NT

Required: No

Description: Terasaki TemBreak PRO Undervoltage Trip Instantaneous for A/P Models 24V DC



Item No: T2UV00LD02NWA

Required: No

Description: Terasaki TemBreak PRO Undervoltage Trip Instantaneous for A/P Models 24V DC Wired Type



Item No: T2UV00LD10NWA

Required: No

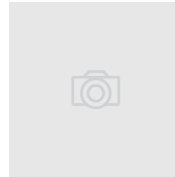
Description: Terasaki TemBreak PRO Undervoltage Trip Instantaneous for A/P Models 100-120V DC Wired Type



Item No: T2UV00LD20NWA

Required: No

Description: Terasaki TemBreak PRO Undervoltage Trip Instantaneous for A/P Models 200-240V DC Wired Type



Item No: TPCF164SLEPH

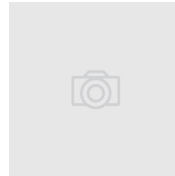
Required: No

Description: Terasaki TemBreak PRO Terminal Cover CF Long Style with Barrier for 4P P160 MCCB Qty 1

Item No: TPCF164SLNP

Required: No

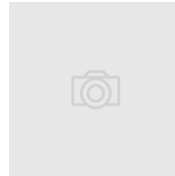
Description: Terasaki TemBreak PRO Terminal Cover CF Long Style for 4P P160 MCCB Qty 2



Item No: TPCF164SLNPH

Required: No

Description: Terasaki TemBreak PRO Terminal Cover CF Long Style for 4P P160 MCCB Qty 1



Item No: TPCF164SSEPH

Required: No

Description: Terasaki TemBreak PRO Terminal Cover CF Short Style with Barrier for 4P P160 MCCB Qty 2



Item No: TPCF164SSNP

Required: No

Description: Terasaki TemBreak PRO Terminal Cover CF Short Style for 4P P160 MCCB Qty 2



Item No: TPCF16SL

Required: No

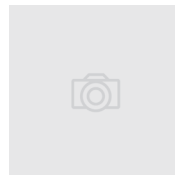
Description: Terasaki TemBreak PRO Terminal Cover Clip for P160



Item No: TPCLCP16

Required: No

Description: Terasaki TemBreak PRO Captive Lock Cover for P160 Thermal Magnetic and Basic Electronic MCCB



Item No: TPCLCP16SE

Required: No

Description: Terasaki TemBreak PRO Captive Lock Cover for P160 Smart Electronic MCCB

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RELATED PRODUCTS

ACCESSORY



Item No: TPCR164SP

Required: No

Description: Terasaki TemBreak PRO Terminal Cover CR Flush Style for P160 4P MCCB Qty 2



Item No: TPCR164SPH

Required: No

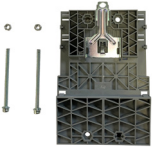
Description: Terasaki TemBreak PRO Terminal Cover CR Flush Style for P160 4P MCCB Qty 1



Item No: TPCS164SPB

Required: No

Description: Terasaki TemBreak PRO Terminal Cover CS Standard Style for P160 4P MCCB Qty 2



Item No: TPDA16SA

Required: No

Description: Terasaki TemBreak PRO DIN Rail Adaptor for P160 MCCB



Item No: TPFW16S4L1H

Required: No

Description: Terasaki TemBreak PRO Tunnel Terminal fits 35 to 120mm² for P160 Qty 4



Item No: TPFW16S4L6H

Required: No

Description: Terasaki TemBreak PRO Tunnel Terminal fits 6 Cables 4 to 25mm² for P160 Qty 4



Item No: TPHB165UR5BN

Required: No

Description: Terasaki TemBreak PRO Handle Direct Mount with Door Interlock for P160 Black



Item No: TPHP16SR6BN

Required: No

Description: Terasaki TemBreak PRO HP Handle with 421mm Extension Shaft IP65 for P160 Grey



Item No: TPHP16SR6RN

Required: No

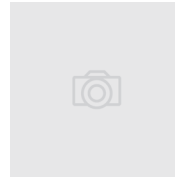
Description: Terasaki TemBreak PRO HP Handle with 421mm Extension Shaft IP65 for P160 Red



Item No: TPHS16R5GM

Required: No

Description: Terasaki TemBreak PRO HS Handle with 356mm Extension Shaft IP55 for P160 MCCB Grey



Item No: TPHS16R5RM

Required: No

Description: Terasaki TemBreak PRO HS Handle with 356mm Extension Shaft IP55 for P160 MCCB Red



Item No: TPMC25SA10N

Required: No

Description: Terasaki TemBreak PRO Motor 110V AC for P160/P250



Item No: TPMC25SA24N

Required: No

Description: Terasaki TemBreak PRO Motor 230-240V AC for P160/P250



Item No: TPMC25SD02N

Required: No

Description: Terasaki TemBreak PRO Motor 24V DC for P160/P250



Item No: TPMC25SD04N

Required: No

Description: Terasaki TemBreak PRO Motor 48V DC for P160/P250



Item No: TPMC25SD10N

Required: No

Description: Terasaki TemBreak PRO Motor 110V DC for P160/P250



Item No: TPMC25SD20N

Required: No

Description: Terasaki TemBreak PRO Motor 220V DC for P160/P250



Item No: TPML16SL4

Required: No

Description: Terasaki TemBreak PRO Front Link Interlock Left Side Mount for 4P P160 MCCB

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RELATED PRODUCTS

ACCESSORY



Item No: TPMW00L

Required: No

Description: Terasaki TemBreak PRO Interlock Wire 1.5m for P Model MCCBs



Item No: TPMW00S

Required: No

Description: Terasaki TemBreak PRO Interlock Wire 1.0m for P Model MCCBs



Item No: TPMW16SCN

Required: No

Description: Terasaki TemBreak PRO Cable Interlock Kit without Wire for P160



Item No: TPRP164SH

Required: No

Description: Terasaki TemBreak PRO Rear Connect Studs for 4P P160 MCCB Half Set