

## DATA SHEET: TEMBREAK 2 H250-NE MCCB

MCCB Electrical Characteristics to IEC 60947-2, EN 60947-2, JIS C 8201-2-1 ANN.1, AS/NZS 3947-2, NEMA AB-1

Frame Reference	Quantity	Unit	Condition	TB2 S/H/L 250
<b>Max In (A) of Frame</b>				<b>250</b>
Model				H250
Number of Poles				3, 4
Type				NE
<b>Nominal current ratings</b>				
	$I_n$	(A)	50°C	40 125 160 250
<b>Electrical characteristics</b>				
Rated operational voltage	$U_e$	(V)	AC 50/60 Hz DC	690 -
Rated insulation voltage	$U_i$	(V)		800
Rated impulse withstand voltage	$U_{imp}$	(kV)		8
Ultimate breaking capacity (IEC, JIS, AS/NZS)	$I_{cu}$	(kA)	690V AC	20
			525V AC	45
			440V AC	120
			400/415V AC	125
			220/240V AC	150
250V DC	-			
Service breaking capacity (IEC, JIS, AS/NZS)	$I_{cs}$	(kA)	690V AC	15
			525V AC	45
			440V AC	80
			400/415V AC	85
			220/240V AC	150
250V DC	-			
Rated breaking capacity (NEMA)		(kA)	480V AC 240V AC	45 150
Rated short-time withstand current	$I_{cw}$	(kA)	0.3 Seconds	-
<b>Protection</b>				
Adjustable thermal, adjustable magnetic				■
Fixed thermal, fixed magnetic				
Microprocessor				■
Utilisation category				A
<b>Installation</b>				
Front connection (FC)				■
Extension bar (FB)				●②
Cable clamp (FW)				●②
Rear connection (RC)				●②
Plug-in (PM)				-
DIN rail mounting (DA)				-
Dimensions	height	(mm)		165
	width	(mm)	3 pole	105
		(mm)	4 pole	140
	depth	(mm)		103
Weight	weight		3 pole	2.5
			4 pole	3.3
<b>Operation</b>				
Direct Opening Action				■
Toggle operation				■
Door mounted (HS) / Breaker mounted handle (HB)				•
Motor operation (MC)				•
Endurance	Electrical Mechanical	cycles cycles	415V AC	10,000
				30,000

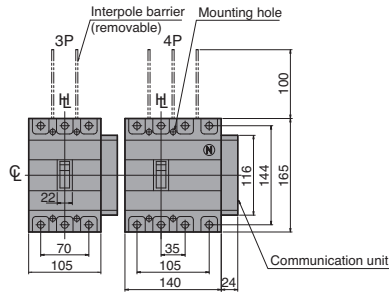


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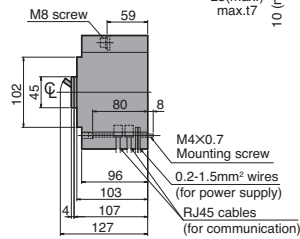
## Outline Dimensions H250-NE with Communication Module

ASL: Arrangement Standard Line  $\text{HL}$ : Handle Frame Centre Line

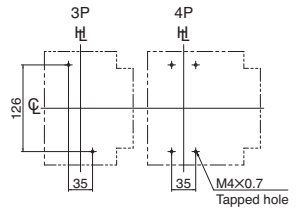
### Front connected



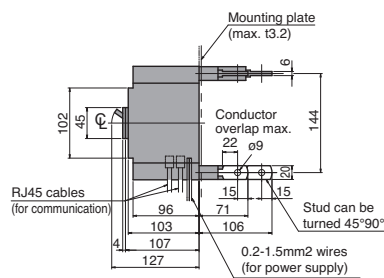
### Preparation of conductor



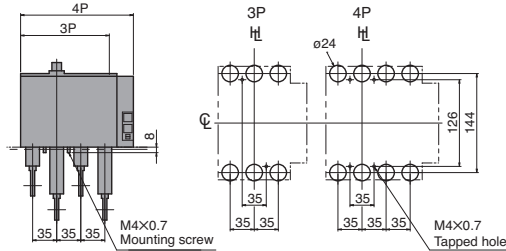
### Drilling plan (front view)



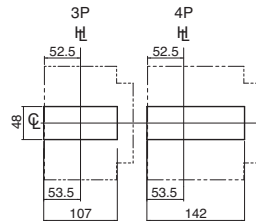
### Rear connected



### Drilling plan (front view)

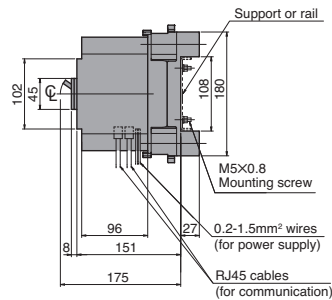
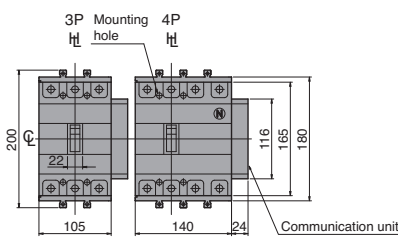


### Panel cutout (front view)



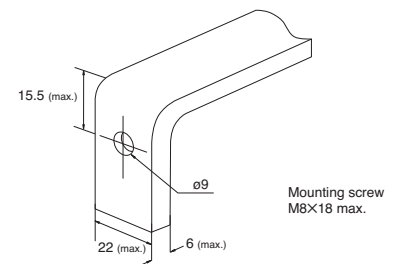
Panel cutout dimensions shown give an allowance of 1.0mm or more around the handle escutcheon.

### Plug-in

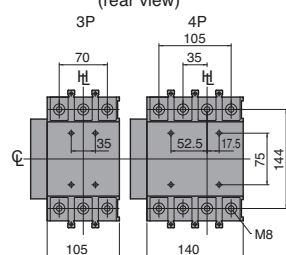
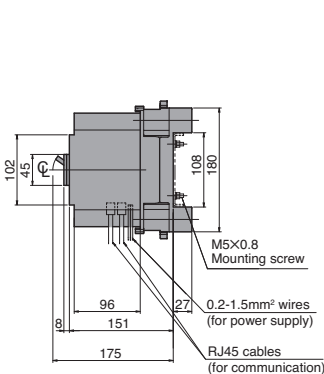


### Termination of Busbar

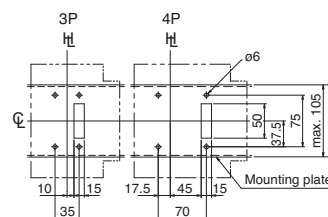
#### Preparation of conductor



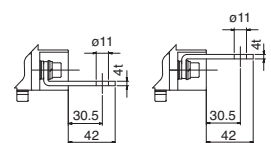
### Mounting on a support or rails (shown with optional connection bars oriented for rear access)



### Drilling plan (front view)



### Detail of connecting part Oriented for rear access

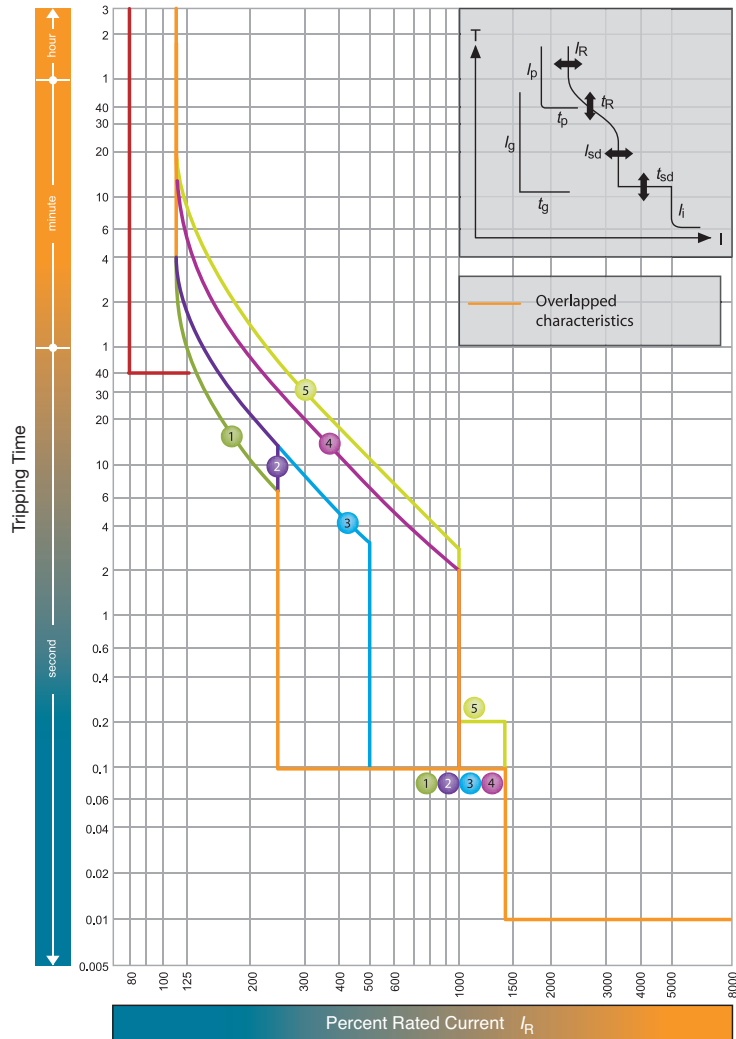


Terminal bars should be connected alternately on adjacent poles.

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### Time/Current Characteristic Curves

#### H250-NE



$I_n = 250A; 160A; 125A; 40A$  Note(1)

$I_R$ (A)									
LTD Pick-up current	$I_R$	x/n	0.4	0.5	0.63	0.8	0.9	0.95	1.0

Characteristics		No.	1	2	3	4	5
Standard	LT	$t_R$ (s)	11	21	21	5	7.5
	ST	$I_{sd}$	2.5		5	10	
		$t_{sd}$ (s)	0.1				
INST	$I_i$	x/ $I_n$	14(Max: 13 x $I_n$ ) Note (2)				
Option	PTA	$I_p$	0.8				
		$t_p$ (s)	40				
	NP	$I_N$	x/ $I_n$	1.0 Note (3)			
$t_N$ (s)			$t_N = t_R$				

Note

(1) For Plug-in (PM), max. setting for  $I_R$  should be less than 225A. When  $I_n=250A$ ,  $I_R$  should be  $I_n \times 0.9$  or less.

(2)  $I_i$  max. = 13 x  $I_n$ . (3) Characteristic of neutral protection ( $t_N$  vs.  $I_N$ ) is identical to characteristic of phase protection ( $t_R$  vs.  $I_R$ ).