

## DATA SHEET: TEMBREAK 2 S250-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
Max In (A) of Frame				250
Model Number of Poles Type				S250 3,4 NE
Nominal current ratings				
	$I_n$	(A)	50°C	40 125 160 250
Electrical characteristics				
Rated operational voltage	$U_e$	(A)	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 525V AC 440V AC 400/415V AC 220/240V AC 250V DC	7.5 25 25 36 65 -
Service breaking capacity (IEC, JIS, AS/NZS)	$I_{cs}$	(kA)	690V AC 525V AC 440V AC 400/415V AC 220/240V AC 250V DC	7.5 25 25 36 65 -
Rated breaking capacity (NEMA)		(kA)	480V AC 240V AC	25 65
Protection				
Adjustable thermal, adjustable magnetic Fixed thermal, fixed magnetic Microprocessor Utilisation category				■ A
Installation				
Front connection (FC) Extension bar (FB) Cable clamp (FW) Rear connecton (RC) Plug-in (PM) Din rail mounting (DA) Dimensions	height width	(mm) (mm)	3 pole, (1 pole) 4 pole	■ ● ● ● ● ● ** -
Weight	depth weight	(mm) (kg)	3 pole, (1 pole) 4 pole	165 105 140 103 2.3 3.1
Operation				
Direct Opening Action Toggle operation Door mounted (HS) / breaker mounted handle (HB) Motor operation (MC)				■ ■ ● ●
Endurance	Electrical Mechanical	cycles cycles	415V AC	30,000 30,000

■ Standard ● Optional - Not Available

\*\* Max. rating 200A for Plug-in

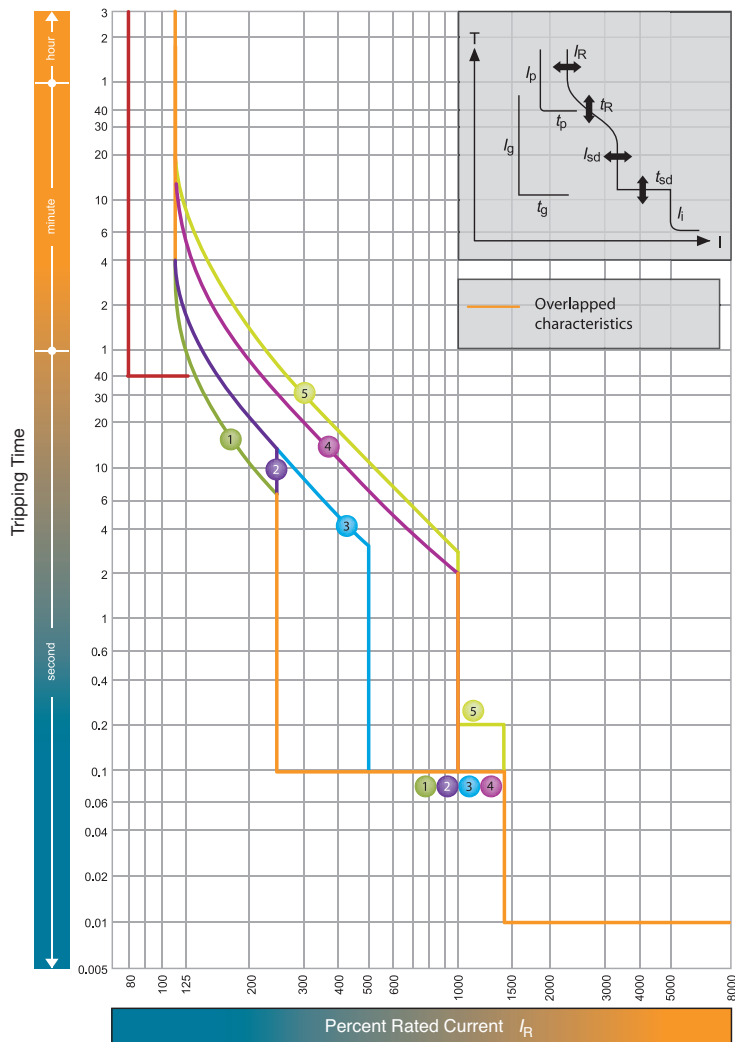




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### Time/Current Characteristic Curves

S250-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.  $I_R$ ).