

## DATA SHEET: TEMBREAK 2 H800-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	<b>TB2 H/L 800</b>
Max In (A) of Frame				800
Model				H800
Number of Poles				3, 4
Type				NE
<b>Nominal current ratings</b>				
	$I_n$	(A)	50°C	630 800
<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	25 <sup>③</sup>
			525V AC	40
			440V AC	125
			400/415V AC	125
			220/240V AC	150
			250V DC	-
Service breaking capacity (IEC, JIS, AS/NZS)	$I_{cs}$	(kA)	690V AC	20 <sup>③</sup>
			525V AC	34
			440V AC	94
			400/415V AC	94
			220/240V AC	150
			250V DC	-
Rated breaking capacity (NEMA)		(kA)	480V AC 240V AC	40 150
Rated short-time withstand current	$I_{cw}$	(kA)	0.3 Seconds	10
<b>Protection</b>				
Adjustable thermal, adjustable magnetic				■
Fixed thermal, fixed magnetic				
Microprocessor				●
Utilisation category				B
<b>Installation</b>				
Front connection (FC)				-
Extension bar (FB)				■
Cable clamp (FW)				-
Rear connection (RC)				●
Plug-in (PM)				●
DIN rail mounting (DA)				-
Dimensions	height	(mm)		273
	width	(mm)	3 pole 4 pole	210 280
	depth	(mm)		140
Weight	weight	(kg)	3 pole 4 pole	① ②
<b>Operation</b>				
Direct Opening Action				■
Toggle operation				■
Door mounted (HS) / Breaker mounted handle (HB)				●
Motor operation (MC)				●
Endurance	Electrical Mechanical		690V AC	4,000 10,000
		cycles cycles		

① 13.3kg 630A, 14.8kg 800A

② 16.8kg 630A, 18.8kg 800A

③ MCCB cannot be used in IT systems at this voltage

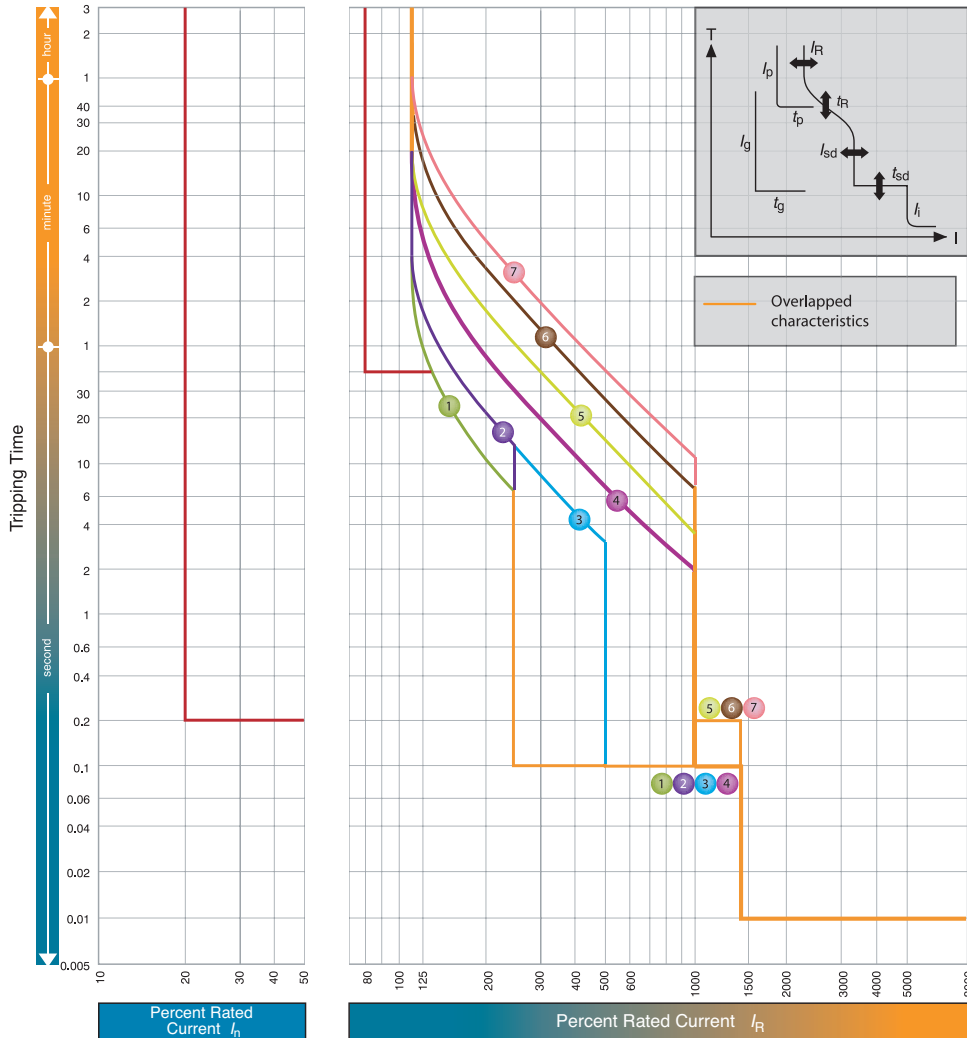




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## Time/Current Characteristic Curves

H800-NE



$I_n = 800A; 630A$

		$I_R$ (A)									
		LTD Pick-up current	$I_R$	$x/I_n$	0.4	0.5	0.63	0.8	0.9	0.95	1.0
Standard	LT	$t_R$	(s)		11	21	21	5	10	19	29
	ST	$I_{sd}$	$x/I_R$		2.5			5			
		$t_{sd}$	(s)		0.1			10			
	INST	$I_i$	$x/I_n$		14(Max: 12 x $I_n$ ) Note (1)						
Option	PTA	$I_p$	$x/I_R$		0.8						
		$t_p$	(s)		40						
	GF Note(3)	$I_g$	$x/I_n$		0.2						
		$t_g$	(s)		0.2						
	NP	$I_N$	$x/I_R$		1.0/0.5 Note(2)						
	$t_N$	(s)		$t_N=t_R$							

Note

(1)  $I_i$  max. = 12 x  $I_n$ . (2) 1.0 x  $I_R$  or 0.5 x  $I_R$  can be selected. Characteristic of neutral protection ( $t_N$  vs.  $I_N$ ) is identical to characteristic of phase protection ( $t_R$  vs.  $I_R$ ). (3) When you specify GF on MCCBs with 3 poles the terminal block is automatically fitted to connect with the external neutral CT for 3 phases 4 wires system.