
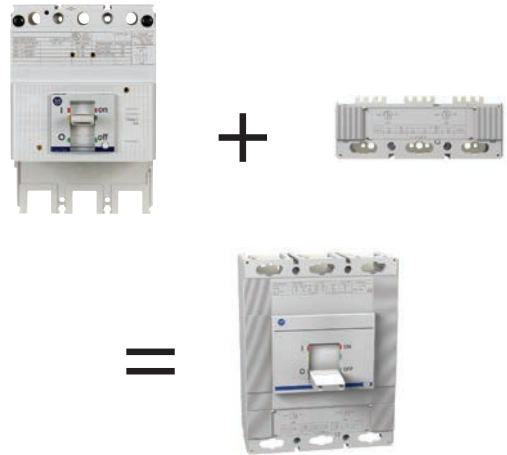


# Product Details and Certifications

## Cross Reference RA Part Number: PN-D166391

 **Product: 140G-N6H3-D80**

Description: 140G Molded Case Circuit Breaker



Note: This product is an assembly of the following components:

1. Cat. 140G-N6H3-E12, Molded Case Circuit Breaker, N frame
2. Cat. 140G-NRP-D80, 800A Rating Plug

Representative Photo Only (actual product may vary based on configuration selections)

### **SYSTEM DATA**

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Supply Voltage	480V 50/60Hz / 600V 50/60 Hz
Interrupt Rating[kA]	65 kA at 480V / 50 kA at 600V

### **CIRCUIT BREAKER DATA**

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Bulletin Number	140G - Molded Case Circuit Breaker , Bulletin 140G/140MG
Number of Poles	3 Poles
Frame Size	N frame
Frame Current Range	80% Rated
Protection	Electronic LSI - Long & Short Time, High Instantaneous
Rated Current(A)	1200 A
Rating Plug	800 A Rating Plug

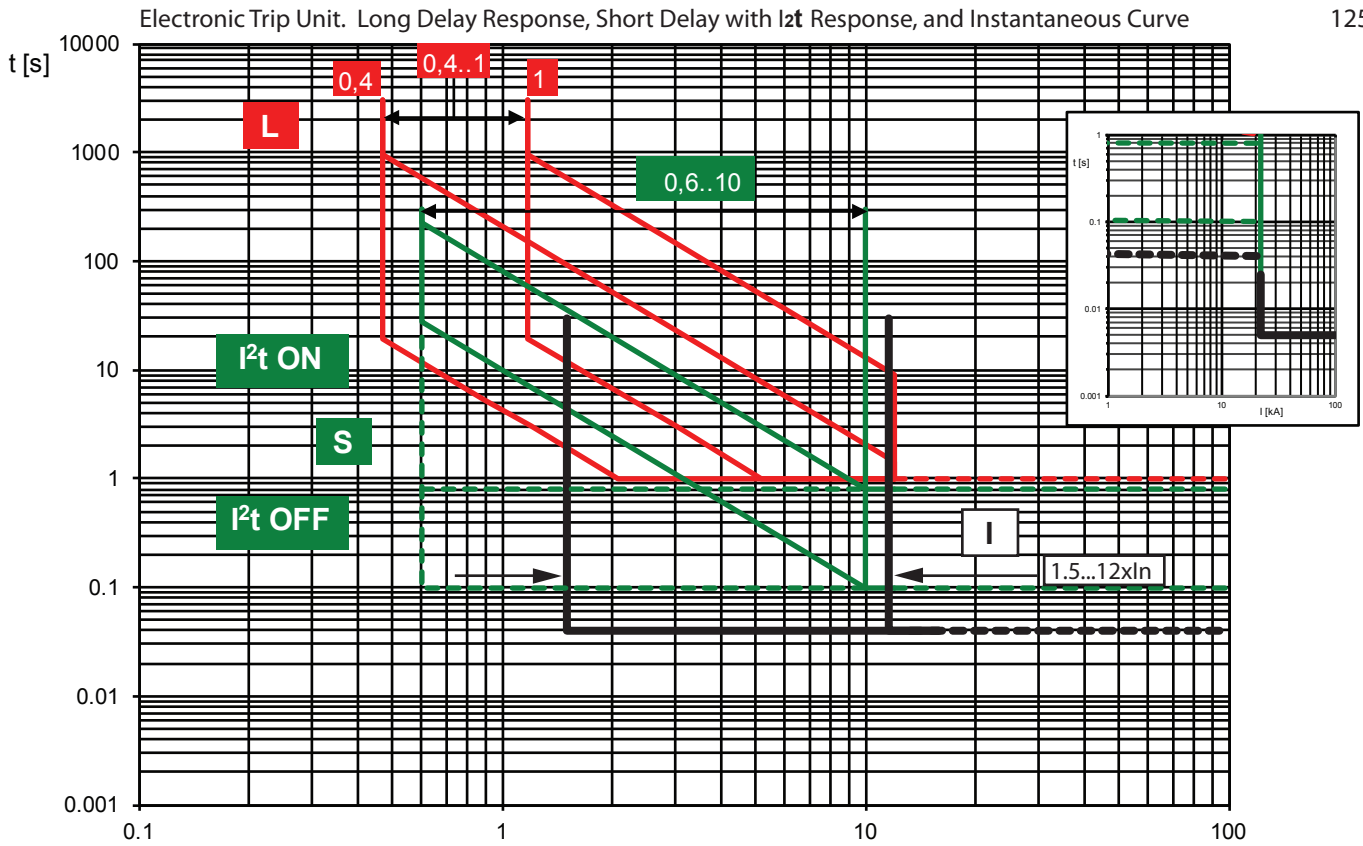
### **MANUFACTURING**

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Assembly	Factory Assembled
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Time-Current Curves for Bulletin 140G-N (-NS) Molded Case Circuit Breaker

Available Rating Plugs: (In):  
400; 600; 800; 1000; 1200;  
1250A (IEC)



Protection	Disa ble	Trip Threshold	Trip Time	Trip Threshold Tolerance <sup>(2)</sup>	Trip Time Tolerance <sup>(2)</sup>
L ( $t=k/I^2$ )		$I_1 = 0.4-0.44-0.48-0.52-... 1 \times I_n$	$t_1 = 3-6-12-18 \text{ s}^{(1)} @ 6I_1$	Release between 1.05 and 1.2 $\times I_1$	$\pm 10\% I_g \leq 6 \times I_n$
S ( $t=k$ )	✓	$I_2 = 0.6-0.8-1.2-1.8-2.4-3-3.6-4.2-5-5.8-6.6-7.4-8.2-9-10 \times I_n$	with $I > I_2$ $t_2 = 0.1-0.25-0.5-0.8 \text{ s}$	$\pm 7\% I_g \leq 6 \times I_n$ $\pm 10\% I_g > 6 \times I_n$	The best of: $\pm 10\%$ or $\pm 40 \text{ ms}$
S ( $t=k/I^2$ )	✓	$I_2 = 0.6-0.8-1.2-1.8-2.4-3-3.6-4.2-5-5.8-6.6-7.4-8.2-9-10 \times I_n$	$I = 10 \times I_n$ $t_2 = 0.1-0.25-0.5-0.8 \text{ s}$	$\pm 7\% I_g \leq 6 \times I_n$ $\pm 10\% I_g > 6 \times I_n$	$\pm 15\% I_g \leq 6 \times I_n$ $\pm 20\% I_g > 6 \times I_n$
I ( $t=k$ )	✓	$I_3 = 1.5-2.5-3-4-4.5-5-5.5-6.5-7-7.5-8-9-9.5-10.5-12- \times I_n$	$\leq 30 \text{ ms}$	$\pm 10\%$	

Notes:

- The minimum value of this trip is 1s regardless of curve type (self-protection)
- These tolerances apply under the following conditions:
  - self-powered relay at full power (without start-up)
  - presence of auxiliary power supply
  - two-phase or three-phase power supply
  - preset trip time  $\geq 100 \text{ ms}$
- Curve accuracy applies from -20 C to +55 C ambient.  
For possible continuous ampere derating for ambient above 40 C, consult Rockwell Automation.
- The right portion of the curve is determined by the interrupting rating of the circuit breaker.
- Total clearing times shown include the response times of the trip unit, the breaker opening, and the interruption of the current.
- For high fault current levels an additional fixed instantaneous hardware override is provided at 22kA.

For all cases not covered by the above assumptions, the following tolerance values apply:

Protection	Trip Threshold	Trip Time
L	$1.05 \leq I_1 \leq 1.25$	$\pm 20\%$
S	$\pm 10\%$	$\pm 20\%$
I	$\pm 15\%$	$\leq 60 \text{ ms}$
Others	$\pm 20\%$	