

MULTI 9™ System Catalog

IEC Rated NC100H/LS/LH Circuit Breakers

Standard Features

- Fast closing: Allows increased withstand to the high inrush currents of some loads
- Trip-free mechanism: Contacts cannot be held in the on position when the circuit breaker is tripped automatically
- Isolation with positive break indication: Green strip on the circuit breaker operating handle indicates that all poles are open
- Number of operating cycles (O–C): 20,000
- Degree of protection as per IEC 529 (see page 83):
 - Case: IP40
 - Terminals: IP20
- Tropicalization: Treatment 2 (relative humidity: 95% at 131°F/55°C)
- Temperature:
 - Operation: 23 to 140°F (–5 to 60°C)
 - Storage: –40 to 212°F (–40 to 100°C)
- Identification: Each device comes with a label holder

Compliance with Standards

- IEC 947-2
- CE Marked

Interrupting Ratings

Type	Rating (A) at 104°F/40°C	Number of Poles	Voltage (Vac)	Interrupting Rating (A)
NC100H	10–100	1P	230–240	10,000
			415	4,000 (1)
		2P/3P/4P	230–240	20,000
			400–415	10,000
			440	6,000
NC125H	125	1P	415	4,000 (1)
		2P/3P/4P	230	20,000
			400–415	10,000
NC100LS	10–63	1P	220–240	36,000 (1)
		2P/3P/4P	220–240	70,000
			380–415	36,000
NC100LH	10–63	1P	220–230	50,000
			240	40,000
			400	12,500
			415	10,000 (1)
		2P/3P/4P	220–230	100,000
			400	50,000
			415	40,000
			440	30,000

(1) Single-pole interrupting rating for IT type European grounding system (insulated neutral—double fault).

Time-Current Curves

B Curve—Overcurrent protection for generators, very long cables, etc.:

- Tripping curve: the magnetic release operates between 3.2 and 4.8 I_n

C Curve—Overcurrent protection for cables supplying standard loads:

- Tripping curve: the magnetic release operates between 7 and 10 I_n

D Curve—Overcurrent protection for loads with high inrush currents (motors, transformers etc.):

- Tripping curve: the magnetic release operates between 10 and 14 I_n

Weights (oz./g)

Type	1P	2P	3P	4P
NC100H	6.35/180	12.70/360	19.05/540	25.40/720
NC125H	—	—	19.05/540	25.40/720
NC100LS	6.35/180	12.70/360	19.05/540	25.40/720
NC100LH	6.35/180	12.70/360	19.05/540	25.40/720

Connection

Type	Flexible Cables	Rigid Cables
NC100H	#3 AWG (35 mm ²)	#1 AWG (50 mm ²)
NC125H	—	#1 AWG (50 mm ²)
NC100LS	#4 AWG (25 mm ²)	#3 AWG (35 mm ²)
NC100LH	#4 AWG (25 mm ²)	#3 AWG (35 mm ²)



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B Curve—NC100H and NC125H Circuit Breakers

Rating (A)	1P 3 Modules	2P 6 Modules	3P 9 Modules	4P 12 Modules
10	27201	27212	27223	27234
16	27202	27213	27224	27235
20	27203	27214	27225	27236
25	27204	27215	27226	27237
32	27205	27216	27227	27238
40	27206	27217	27228	27239

Rating (A)	1P 3 Modules	2P 6 Modules	3P 9 Modules	4P 12 Modules
50	27207	27218	27229	27240
63	27208	27219	27230	27241
80	27209	27220	27231	27242
100	27210	27221	27232	27243
125	27211	27222	27233	27244

C Curve—NC100H and NC125H Circuit Breakers

Rating (A)	1P 3 Modules	2P 6 Modules	3P 9 Modules	4P 12 Modules
10	27245	27256	27267	27278
16	27246	27257	27268	27279
20	27247	27258	27269	27280
25	27248	27259	27270	27281
32	27249	27260	27271	27282
40	27250	27261	27272	27283

Rating (A)	1P 3 Modules	2P 6 Modules	3P 9 Modules	4P 12 Modules
50	27251	27262	27273	27284
63	27252	27263	27274	27285
80	27253	27264	27274	27286
100	27254	27265	27276	27287
125	27255	27266	27277	27288

D Curve—NC100H and NC125H Circuit Breakers

Rating (A)	1P 3 Modules	2P 6 Modules	3P 9 Modules	4P 12 Modules
10	27289	27300	27311	27322
16	27290	27301	27312	27323
20	27291	27302	27313	27324
25	27292	27303	27314	27325
32	27293	27304	27315	27326

Rating (A)	1P 3 Modules	2P 6 Modules	3P 9 Modules	4P 12 Modules
40	27294	27305	27316	27327
50	27295	27306	27317	27328
63	27296	27307	27318	27329
80	27297	27308	27319	27330
100	27298	27309	27320	27331

NOTE: Width of one module = 0.354 in. (9 mm).



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IEC Rated NC100LS and NC100LH Circuit Breakers

C Curve—NC100LS Circuit Breakers

Rating (A)	1P 3 Modules	2P 6 Modules	3P 9 Modules	4P 12 Modules
10	27377	27388	27399	27410
16	27378	27389	27400	27411
20	27379	27390	27401	27412
25	27380	27391	27402	27413

Rating (A)	1P 3 Modules	2P 6 Modules	3P 9 Modules	4P 12 Modules
32	27381	27392	27403	27414
40	27382	27393	27404	27415
50	27383	27394	27405	27416
63	27384	27395	27406	27417

D Curve—NC100LS Circuit Breakers

Rating (A)	1P 3 Modules	2P 6 Modules	3P 9 Modules	4P 12 Modules
10	27421	27432	27443	27454
16	27422	27433	27444	27455
20	27423	27434	27445	27456
25	27424	27435	27446	27457

Rating (A)	1P 3 Modules	2P 6 Modules	3P 9 Modules	4P 12 Modules
32	27425	27436	27447	27458
40	27426	27437	27448	27459
50	27427	27438	27449	27460
63	27428	27439	27450	27461

C Curve—NC100LH Circuit Breakers

Rating (A)	1P 3 Modules	2P 6 Modules	3P 9 Modules	4P 12 Modules
10	27509	27520	27531	27542
16	27510	27521	27532	27543
20	27511	27522	27533	27544
25	27512	27523	27534	27545

Rating (A)	1P 3 Modules	2P 6 Modules	3P 9 Modules	4P 12 Modules
32	27513	27524	27535	27546
40	27514	27525	27536	27547
50	27515	27526	27537	27548
63	27516	27527	27538	27549

NOTE: Width of one module = 0.354 in. (9 mm).

