

Molded Case Circuit Breakers

LD 600A Frame Sentron Series

Selection

Type LXD6-A^{①④}

Blue Label

Non-Interchangeable Trip (Assembled Circuit Breaker without Lugs)				
Continuous Current Rating @ 40°C	2-Pole (3 Pole Width)		3-Pole	
	600V AC	250V DC	600V AC	500V DC
	Catalogue Number		Catalogue Number	
450	LXD62B450		LXD63B450	
500	LXD62B500		LXD63B500	
600	LXD62B600		LXD63B600	

Type LD6-A^④

Blue Label

Interchangeable Trip			
Continuous Current Rating @ 40°C	Complete Breaker Unassembled w/Lugs	Frame Only	Trip Unit Only
	Catalogue Number	Catalogue Number	Catalogue Number

2-Pole 600V AC, 250V DC (3 Pole Width)

250	LD62B250	LD62F600	JD62T250
300	LD62B300		JD62T300
350	LD62B350		JD62T350
400	LD62B400		JD62T400
450	LD62B450		LD62T450
500	LD62B500		LD62T500
600	LD62B600		LD62T600

3-Pole 600V AC, 500V DC^②

250	LD63B250	LD63F600	JD63T250
300	LD63B300		JD63T300
350	LD63B350		JD63T350
400	LD63B400		JD63T400
450	LD63B450		LD63T450
500	LD63B500		LD63T500
600	LD63B600		LD63T600

Interrupting Ratings

Breaker Type	RMS Symmetrical Amperes (KA)						IEC 947-2					
	CSA / UL 489 AIR (File E10848)						IEC 947-2					
	Volts AC (50/60Hz)			Volts DC			Volts AC (50/60Hz)					
	240	480	600	250	500 ^③		220/240	380/415	500			
LXD6, LD6	65	35	25	30 (2-P)	25 (3-P)		(lcs)	(lcs)	(lcs)	(lcs)	(lcs)	(lcs)
HLD6, HLXD6	100	65	35	30 (2-P)	35 (3-P)		100	50	65	33	42	21
HHL6, HHLXD6	200	100	50	—	—		200	100	100	50	65	33
CLD6	200	150	100	30 (2-P)	50 (3-P)		—	—	—	—	—	—

Instantaneous Adjustment Trip Range

Breaker Ampere Rating	Nominal Instantaneous Values							
	Low ^⑤	2	3	4	5	6	7	High ^⑤
250-300	1250	1430	1610	1790	1960	2140	2320	2500
350-450	2000	2290	2570	2860	3140	3430	3710	4000
500-600	3000	3430	3800	4290	4710	5140	5570	6000

① Type LXD6A circuit breakers are CSA Certified / UL Listed for reverse

fed applications.

② When wired as shown on page 5-2, this circuit breaker is UL listed and rated for use on 500V DC ungrounded UPS systems only.

③ See Note: A, page 5-64.

④ HACR rated.

⑤ +/- 20% Tolerance

Note: LD frame qualified to UL489 supplement SB "NAVAL" See page 5-67 for additional information.

Modifications page 5-67
Accessories page 5-68

Ordering Information

Complete Breaker Unassembled with Lugs

Prices of LD6, HLD6, and HHL6 breakers include frame, trip, and both line and load lugs (TA2J6500). When ordered by these catalogue numbers, the customer will receive the frame, trip and lugs separately packaged. For applications requiring different lugs, order individual items as needed.

Complete Breaker Assembled without Lugs

Prices of LXD6, HLXD6, HHLXD6, and CLD6 include frame with non-interchangeable trip unit installed only. Order required lugs separately. For line and load lugs (TA2J6500) installed, add suffix "L" to catalogue number (add 2 times list price of lugs for each pole).

100% Rated (3-pole only)

Types, LXD6 and HLXD6 breakers are available with 100% ratings. To order add suffix "H" to catalogue number, and 10% to list price. 100% rated LD breakers require the use of 90°C Cu cable and lugs TC1J6600 or TC2J6500.

50°C Applications see page 5-67.

400Hz Applications see page 5-67.

Shipping Weights

Number of Poles	Number per Carton	Shipping Weight (lbs.)
LXD6, LD6, HLD6, HHL6 Assembled Breaker (less terminals)		
2	1	17.5
3	1	19.5
LD6, HLD6, HHL6 Frame Only		
2	1	14
3	1	15.5
LD6, HHL6 Trip Unit Only		
2	1	3.5
3	1	4
CLD6 Complete Assembled Breaker (less terminals)		
2	1	29.5
3	1	31.5

Lugs For 75°C Wire^③

Catalogue Number	Cables per Lug	Wire Range
TA2J6500	1, 2	#3/0 500 kcmil Cu
	2	#4/0 500 kcmil Al
TC2J6500	2	#3/0-500 kcmil Cu
TA1L6750	1	500-750 kcmil Al
	1	500-600 kcmil Cu
TC1J6600	1	#3/0-600 kcmil Cu
Compression Lug		
CCL600	1	500 kcmil Cu/Al

Molded Case Circuit Breakers

LD 600A Frame Sentron Series

Selection

Type HLD6-A, HLXD6^{②③④}

Black Label

Interchangeable Trip			
Continuous Current Rating @ 40°C	Complete Breaker Unassembled w/Lugs	Frame Only	Trip Unit Only
	Catalogue Number	Catalogue Number	Catalogue Number

2-Pole 600V AC, 250V DC (3 Pole Width)

250	HLD62B250	HLD62F600	JD62T250
300	HLD62B300		JD62T300
350	HLD62B350		JD62T350
400	HLD62B400		JD62T400
450	HLD62B450		LD62T450
500	HLD62B500		LD62T500
600	HLD62B600		LD62T600

3-Pole 600V AC, 500V DC^{①⑤}

250	HLD63B250	HLD63F600	JD63T250
300	HLD63B300		JD63T300
350	HLD63B350		JD63T350
400	HLD63B400		JD63T400
450	HLD63B450		LD63T450
500	HLD63B500		LD63T500
600	HLD63B600		LD63T600

Type HHL6, HHLXD6^{②⑤⑥}

2-Pole 600V AC (3 Pole Width)

Black Label

250	HHL62B250	HHL62F600	JD62T250
300	HHL62B300		JD62T300
350	HHL62B350		JD62T350
400	HHL62B400		JD62T400
450	HHL62B450		HHL62T450
500	HHL62B500		HHL62T500
600	HHL62B600		HHL62T600

3-Pole 600V AC

250	HHL63B250	HHL63F600	JD63T250
300	HHL63B300		JD63T300
350	HHL63B350		JD63T350
400	HHL63B400		JD63T400
450	HHL63B450		HHL63T450
500	HHL63B500		HHL63T500
600	HHL63B600		HHL63T600

Type CLD6^⑥

Fuseless Current Limiting

Red Label

Non-Interchangeable Trip (Assembled Circuit Breaker)			
Continuous Current Rating @ 40°C	2-Pole	3-Pole	
	600V AC/250V DC	600V AC/500V DC	
		Catalogue Number	
450	For 2-pole application use outside poles of 3-pole circuit breaker	CLD63B450	
500		CLD63B500	
600		CLD63B600	

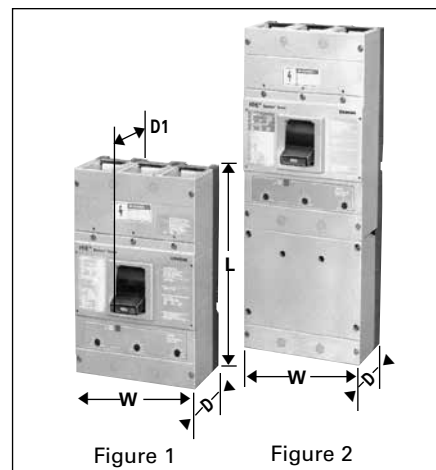


Figure 1

Figure 2

Dimensions (in inches)

Breaker Type	W	L	D	To Handle D1
Figure 1 LXD6-A, LD6-A HLD6-A HHL6, HHLXD6, LXD6-ETI ^⑥	7.5	11	4	5.44
Figure 2 CLD6, CLD6-ETI ^⑥	7.5	17.86	4	5.44

For inches / millimeters conversion, see Application Data section

① When wired as shown on page 5-2, this circuit breaker is CSA Certified / UL listed and rated for use on 500V DC ungrounded UPS systems only.

② For complete assembled 3 pole HLD6 or HHL6 type circuit breaker change the prefix identifier HLD6 or HHL6 to HLXD6 or HHLXD6. Price is sum of frame and trip units prices, e.g. price of HLXD63B400 is the price of HLD63F600 plus the price of LD63T600. Order the terminal connectors separately.

③ Type HLXD6, HHLXD6 Circuit Breakers are CSA Certified / UL Listed for reverse feed applications.

④ LXD6-ETI, CLD6-ETI see page 5-50 for ordering information.

⑤ CE Applies to non-interchangeable type HLXD only.

⑥ HACR rated.

Molded Case Circuit Breakers

SLD 600A Frame Digital Solid State Sentron Sensitrip III Series

Selection

Type SLD6-A

Blue Label

3-Pole, 600V AC	
Catalogue Number	Max Current Rating
SLD69300	300
SLD69400	400
SLD69500	500
SLD69600	600
SLD69300G	300
SLD69400G	400
SLD69500G	500
SLD69600G	600
SLD69300NT	300
SLD69400NT	400
SLD69500NT	500
SLD69600NT	600
SLD69300NGT	300
SLD69400NGT	400
SLD69500NGT	500
SLD69600NGT	600

Type SHLD6-A

Black Label

3-Pole, 600V AC	
Catalogue Number	Max Current Rating
SHLD69300	300
SHLD69400	400
SHLD69500	500
SHLD69600	600
SHLD69300G	300
SHLD69400G	400
SHLD69500G	500
SHLD69600G	600
SHLD69300NT	300
SHLD69400NT	400
SHLD69500NT	500
SHLD69600NT	600
SHLD69300NGT	300
SHLD69400NGT	400
SHLD69500NGT	500
SHLD69600NGT	600

Current Limiting

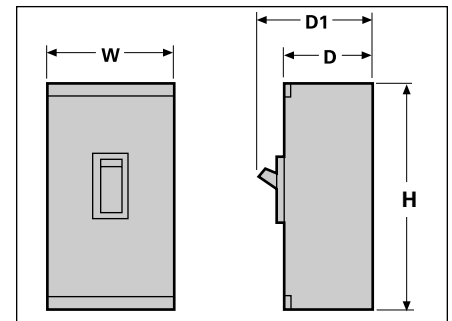
Type SCLD6-A

Red Label

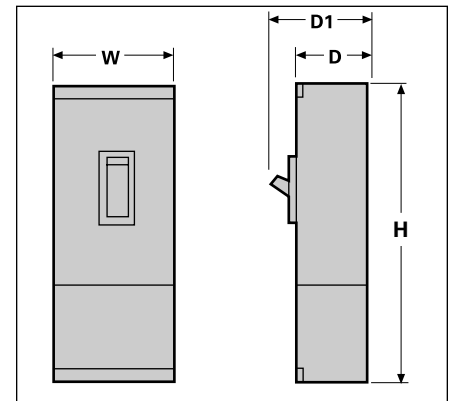
3-Pole, 600V AC	
Catalogue Number	Max Current Rating
SCLD69300	300
SCLD69400	400
SCLD69500	500
SCLD69600	600
SCLD69300G	300
SCLD69400G	400
SCLD69500G	500
SCLD69600G	600
SCLD69300NT	300
SCLD69400NT	400
SCLD69500NT	500
SCLD69600NT	600
SCLD69300NGT	300
SCLD69400NGT	400
SCLD69500NGT	500
SCLD69600NGT	600



SJD6, SLD6



SJD6, SHJD6, SLD6, SHLD6



SCJD6, SCLD6

Dimensions (Inches)

Breaker Type	W	H	D	D1
SJD6(A), SHJD6(A) SLD6(A), SHLD6(A) SLD6, SHLD6	7.5	11	4	5.44
SCJD6 SCLD6	7.5	17.86	4	5.44

Trip Unit Adjustable Functions

Suffix Letter Code	Trip Type	Cont Current Setting	Long Time Delay	Instantaneous Setting	Short Time Pick Up	Short Time Delay	Short Time I-t Pick Up	Ground Fault Pick Up	Ground Fault Delay
None	LI	✓	✓	✓	—	—	—	—	—
G	LIG	✓	✓	✓	—	—	—	✓	✓
NT	LSI	✓	✓	✓	✓	✓	✓	—	—
NGT	LSIG	✓	✓	✓	✓	✓	✓	✓	✓

Interrupting Ratings

Breaker Type	RMS Symmetrical kA UL 489 (File E10848)		
	240V AC	480V AC	600V AC
SLD6-A	65	35	25
SHLD6-A	100	65	35
SCLD6-A	200	150	100

Ordering Information

Pricing information for all Digital Sentron Series SLD frames is for complete breaker only – price required lugs as separate items – lugs are suitable for 75°C wire.

SLD6 and SCLD6 are suitable for reverse connection application.
SHLD6 are not suitable for reverse connection application.

Neutral Transformers

Ampere Rating	Catalogue Number
300	N03SJD
400	N04SJD
500	N05SLD
600	N06SLD

Note: "G" suffix in catalogue number denotes circuit breaker for 3 phase, 3 wire circuits.
 For 3 phase, 4 wire, order correct 4th wire (neutral) transformer as separate and additional item.

For ordering information and terminal connectors, neutral transformers, see page 5-33.
100% Rated – Not available in SLD6 Frame.

Molded Case Circuit Breakers

Internal Accessories

Selection

Accessories for:

JD 400A Frame
LD 600A Frame
LMD 800A Frame
SJD 400A Frame
SLD 600A Frame



Sensitrip Ammeter



The Ammeter Display Units plug into the Sensitrip Trip Unit and displays the phase current flowing in the SADU breaker. They are powered by the breaker's CT's with replaceable battery back-up for maintaining trip and max logs.

The SADU reads currents, current imbalance, current demand, and trip status.

Ammeter Mounting Kit

The Ammeter may also be panel or door mounted using the SADURMK18 remote mounting kit.

Shunt Trip Combinations

Control Voltage		1 Shunt Trip	1 Shunt Trip and 1 Auxiliary Switch
AC	DC	Catalogue Number	Catalogue Number
24	—	S17JLD6	—
48	—	S18JLD6	—
120	—	S01JLD6	S01JLD62A
240	—	S03JLD6	S03JLD62A
277	—	S15JLD6	S15JLD64A
480	—	S04JLD6	—
—	12	S16JLD6	S16JLD62A
—	24	S07JLD6	S07JLD62A
—	48	S09JLD6	S09JLD62A
—	125	S11JLD6	S11JLD62A
—	250	S13JLD6	S13JLD62A

Undervoltage Trip Combinations

Control Voltage		1 Undervoltage Trip	1 Undervoltage Trip and 1 Auxiliary Switch	1 Undervoltage Trip and 2 Auxiliary Switches
AC	DC	Catalogue Number	Catalogue Number	Catalogue Number
120	—	U01JLD6	U01JLD62A	U01JLD62AA
208	—	U02JLD6	U02JLD62A	U02JLD62AA
240	—	U03JLD6	U03JLD62A	U03JLD62AA
277	—	U16JLD6	U16JLD64A	U16JLD62AA
480	—	U06JLD6	U06JLD64A	U06JLD64AA
600	—	U08JLD6	—	—
—	24	U13JLD6	U13JLD62A	U13JLD62AA
—	48	U14JLD6	U14JLD62A	U14JLD62AA
—	125	U10JLD6	U10JLD62A	U10JLD62AA
—	250	U12JLD6	U12JLD62A	U12JLD62AA

Auxiliary Switch Combinations

Maximum Voltage		1 Form C	2 Form C
AC	DC	Catalogue Number	Catalogue Number
480	250	A01JLD64	A02JLD64
—	12	A01JLDLV	A02JLDLV

Alarm Switch Combinations

Maximum Voltage		1 Alarm Switch	1 Alarm Switch and 1 Auxiliary Switch	1 Alarm Switch and 2 Auxiliary Switches
AC	DC	Catalogue Number	Catalogue Number	Catalogue Number
480	250	B01JLD64	A01JLD64B	A02JLD64B

Plug-in Ammeter Display Units

Breaker Type	Description	Catalogue Number
SJD, SLD	Display Unit	SADU
	Remote Mounting Kit	SADURMK18

Note: Accessory modules can only be added to right side pole of solid state SJD and SLD frame circuit breakers. All accessories on this page are useable on superseded JD2, JJ6, JL6, HJ6, SJL, LJ6, LL6, HL6 and SLL circuit breakers.

No accessories can be added if mechanical interlock is used.