

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
	Catalog Number	List Price \$	Catalog Number	List Price \$
450	LXD62B450■	4893.00	LXD63B450	6102.00
500	LXD62B500■	4893.00	LXD63B500	6102.00
600	LXD62B600	4893.00	LXD63B600	6102.00

Type LD6-A^④

Blue Label

Interchangeable Trip						
Continuous Current Rating @ 40°C	Complete Breaker Unassembled w/Lugs		Frame Only		Trip Unit Only	
	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$

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

250	LD62B250■	5020.00	LD62F600	3035.00	JD62T250■	1859.00
300	LD62B300■	5020.00			JD62T300■	1859.00
350	LD62B350■	5020.00			JD62T350■	1859.00
400	LD62B400	5020.00			JD62T400	1859.00
450	LD62B450■	5020.00			LD62T450■	1859.00
500	LD62B500■	5020.00			LD62T500■	1859.00
600	LD62B600	5020.00			LD62T600	1859.00

3-Pole 600V AC, 500V DC^②

250	LD63B250	6290.00	LD63F600	4031.00	JD63T250	2070.00
300	LD63B300	6290.00			JD63T300	2070.00
350	LD63B350	6290.00			JD63T350	2070.00
400	LD63B400	6290.00			JD63T400	2070.00
450	LD63B450	6290.00			LD63T450	2070.00
500	LD63B500	6290.00			LD63T500	2070.00
600	LD63B600	6290.00			LD63T600	2070.00

Interrupting Ratings

Breaker Type	RMS Symmetrical Amperes (KA)						IEC 947-2					
	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			
							(lcs)	(lcs)	(lcs)	(lcs)	(lcs)	(lcs)
LD6-A, LXD6-A	65	35	25	30 (2-P)	25 (3-P)		65	33	40	20	30	15
HLD6-A, HLXD6-A	100	65	35	30 (2-P)	35 (3-P)		100	50	65	33	42	21
HHL6-A, HHLXD6	200	100	50	—	—		200	100	100	50	65	33
CLD6-A	200	150	100	—	50 (3-P)		—	—	—	—	—	—

Instantaneous Adjustment Trip Range

Breaker Ampere Rating	Nominal Instantaneous Values							
	±20% Tolerance Low	2	3	4	5	6	7	±20% Tolerance High
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

■ Built to order. Allow 2-3 weeks for delivery.

① Type LXD6A circuit breakers are UL Listed for reverse fed applications.

② When wired as shown on page 6-3, this circuit breaker is UL listed and rated for use on 500V DC ungrounded UPS systems only.

③ See **Note: A**, page 6-81.

④ HACR rated.

Note: LD frame qualified to UL489 supplement SB "NAVAL". See page 6-84 for additional information.

Modifications page 6-84
Enclosures Section 5
Accessories pages 6-47 and 6-86 to 6-91

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 catalog 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 with-out 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 catalog number (add 2 times list price of lugs for each pole).

100% Rated

Types LXD6 and HLXD6 breakers are available with 100% ratings. To order add suffix "H" to catalog number, and 10% to list price. 100% rated LD breakers require the use of 90°C Cu cable sized at 75°C ampacity and lugs TC1J6600 or TC2J6500.

50°C Applications see page 6-84.

400Hz Applications see page 6-84.

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

Catalog Number	Cables per Lug	Wire Range	List Price \$
TA2J6500	1, 2	#3/0 500 kcmil Cu #4/0 500 kcmil Al	31.50
TC2J6500	2	#3/0-500 kcmil Cu	76.00
TA1L6750	1	500-750 kcmil Al	76.00
	1	500-600 kcmil Cu	
TC1J6600	1	#3/0-600 kcmil Cu	77.00
Compression Lug			
CCL600	1	500 kcmil Cu/Al	150.00

Molded Case Circuit Breakers

LD 600A Frame Sentron Series

Type HLD6-A, HLXD6-A②③⑥

Black Label

Interchangeable Trip						
Continuous Current Rating @ 40°C	Complete Breaker Unassembled w/Lugs		Frame Only		Trip Unit Only	
	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$

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

250	HLD62B250■	6563.00	HLD62F600■	4578.00	JD62T250■	1859.00
300	HLD62B300■	6563.00			JD62T300■	1859.00
350	HLD62B350■	6563.00			JD62T350■	1859.00
400	HLD62B400■	6563.00			JD62T400■	1859.00
450	HLD62B450■	6563.00			LD62T450■	1859.00
500	HLD62B500■	6563.00			LD62T500■	1859.00
600	HLD62B600■	6563.00			LD62T600■	1859.00

3-Pole 600V AC, 500V DC①⑤

250	HLD63B250■	8349.00	HLD63F600■	6090.00	JD63T250■	2070.00
300	HLD63B300■	8349.00			JD63T300■	2070.00
350	HLD63B350■	8349.00			JD63T350■	2070.00
400	HLD63B400■	8349.00			JD63T400■	2070.00
450	HLD63B450■	8349.00			LD63T450■	2070.00
500	HLD63B500■	8349.00			LD63T500■	2070.00
600	HLD63B600■	8349.00			LD63T600■	2070.00

Type HHLD6, HHLXD6②③⑥

2-Pole 600V AC (3-Pole Width)

Black Label

250	HHLD62B250■	8184.00	HHLD62F600■	6199.00	JD62T250■	1859.00
300	HHLD62B300■	8184.00			JD62T300■	1859.00
350	HHLD62B350■	8184.00			JD62T350■	1859.00
400	HHLD62B400■	8184.00			JD62T400■	1859.00
450	HHLD62B450■	8184.00			HHLD62T450■	1859.00
500	HHLD62B500■	8184.00			HHLD62T500■	1859.00
600	HHLD62B600■	8184.00			HHLD62T600■	1859.00

3-Pole 600V AC

250	HHLD63B250■	9914.00	HHLD63F600■	7655.00	JD63T250■	2070.00
300	HHLD63B300■	9914.00			JD63T300■	2070.00
350	HHLD63B350■	9914.00			JD63T350■	2070.00
400	HHLD63B400■	9914.00			JD63T400■	2070.00
450	HHLD63B450■	9914.00			HHLD63T450■	2070.00
500	HHLD63B500■	9914.00			HHLD63T500■	2070.00
600	HHLD63B600■	9914.00			HHLD63T600■	2070.00

Type CLD6-A③⑥

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	
			Catalog Number	List Price \$
450	For 2-pole application use outside poles of 3-pole circuit breaker		CLD63B450■	13045.00
500			CLD63B500■	13045.00
600			CLD63B600■	13045.00

Selection/Dimensions

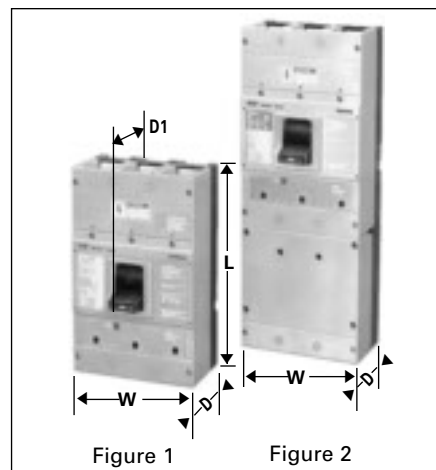


Figure 1

Figure 2

Dimensions (in inches)

Breaker Type	W	L	D	To Handle D1
Figure 1 LXD6-A, LD6-A HLD6-A HHLD6, HHLXD6, LXD6-ETI®, SLD6, SHLD6	7.5	11	4	5.44
Figure 2 CLD6, CLD6-ETI®, SCLD6	7.5	17.86	4	5.44

Enclosures: (except SCLD6)

Type	Catalog Number	List Price \$
1	LD6N1	449.00
3R	LD6N3R	1618.00
12	LD6N12	979.00
4X	LD6SS4	6946.00
7,9	ED6	11330.00
Neutral	W60993	436.00

For inches / millimeters conversion, see Application Data section.

■ Built to order. Allow 2-3 weeks for delivery.

① When wired as shown on page 6-3, this circuit breaker is UL listed and rated for use on 500V DC ungrounded UPS systems only.

② For complete assembled 3-pole HLD6 or HHLD6 type circuit breaker change the prefix identifier HLD6 or

HHLXD6 to HHLXD6. Price is sum of frame and trip units prices, e.g. price of HLD63B400 is the price of HLD63F600 plus the price of LD63T600. Order the terminal connectors separately.■

③ Type HLD6, HHLXD6, & CLD6 Circuit Breakers are UL Listed for reverse feed applications.

④ LXD6-ETI, CLD6-ETI see page 6-66 for ordering information.

⑤ CE Applies to non-interchangeable type HLD6 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		
Catalog Number	Max Current Rating	List Price \$
SLD69300■	300	6235.00
SLD69400■	400	6235.00
SLD69500■	500	6235.00
SLD69600■	600	6235.00
SLD69300G■	300	8847.00
SLD69400G■	400	8847.00
SLD69500G■	500	8847.00
SLD69600G■	600	8847.00
SLD69300NT■	300	7834.00
SLD69400NT■	400	7834.00
SLD69500NT■	500	7834.00
SLD69600NT■	600	7834.00
SLD69300NGT■	300	10890.00
SLD69400NGT■	400	10890.00
SLD69500NGT■	500	10890.00
SLD69600NGT■	600	10890.00

Type SHLD6-A

Black Label

3-Pole, 600V AC		
Catalog Number	Max Current Rating	List Price \$
SHLD69300■	300	7593.00
SHLD69400■	400	7593.00
SHLD69500■	500	7593.00
SHLD69600■	600	7593.00
SHLD69300G■	300	10706.00
SHLD69400G■	400	10706.00
SHLD69500G■	500	10706.00
SHLD69600G■	600	10706.00
SHLD69300NT■	300	9401.00
SHLD69400NT■	400	9401.00
SHLD69500NT■	500	9401.00
SHLD69600NT■	600	9401.00
SHLD69300NGT■	300	12989.00
SHLD69400NGT■	400	12989.00
SHLD69500NGT■	500	12989.00
SHLD69600NGT■	600	12989.00

Current Limiting

Type SCLD6-A

Red Label

3-Pole, 600V AC		
Catalog Number	Max Current Rating	List Price \$
SCLD69300■	300	13446.00
SCLD69400■	400	13446.00
SCLD69500■	500	13446.00
SCLD69600■	600	13446.00
SCLD69300G■	300	17758.00
SCLD69400G■	400	17758.00
SCLD69500G■	500	17758.00
SCLD69600G■	600	17758.00
SCLD69300NT■	300	15914.00
SCLD69400NT■	400	15914.00
SCLD69500NT■	500	15914.00
SCLD69600NT■	600	15914.00
SCLD69300NGT■	300	20940.00
SCLD69400NGT■	400	20940.00
SCLD69500NGT■	500	20940.00
SCLD69600NGT■	600	20940.00

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.

Shipping Weights

Breaker Type	Number per Carton	Shipping Weight (lbs)
SLD6-A	1	20
SHLD6-A	1	20
SCLD6-A	1	33

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 ² t Pick Up	Ground Fault Pick Up	Ground Fault Delay
None	LI	✓	✓	✓					
G	LIG	✓	✓	✓				✓	✓
NT	LSI	✓	✓	✓	✓	✓	✓		
NGT	LSIG	✓	✓	✓	✓	✓	✓	✓	✓

Neutral Transformers

Ampere Rating	Catalog Number	List Price \$
300	N03SJD	396.00
400	N04SJD	396.00
500	N05SLD	396.00
600	N06SLD	396.00

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

Note: "G" suffix in catalog 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 see page 6-44; for enclosures, see page 6-45.

100% Rated – Not available in SLD6 Frame.

■ Built to order. Allow 2–3 weeks for delivery.

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 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	Catalog Number	List Price \$	Catalog Number	List Price \$
24		S17JLD6	636.00	—	—
48		S18JLD6▲	636.00	—	—
120		S01JLD6	636.00	S01JLD62A	897.00
240		S03JLD6	636.00	S03JLD62A	897.00
277		S15JLD6▲	636.00	S15JLD64A▲	897.00
480		S04JLD6	636.00	—	—
	12	S16JLD6▲	636.00	S16JLD62A▲	897.00
	24	S07JLD6	636.00	S07JLD62A	897.00
	48	S09JLD6▲	636.00	S09JLD62A	897.00
	125	S11JLD6	636.00	S11JLD62A▲	897.00
	250	S13JLD6▲	636.00	S13JLD62A▲	897.00

Undervoltage Trip Combinations

Control Voltage		1 Undervoltage Trip		1 Undervoltage Trip and 1 Auxiliary Switch		1 Undervoltage Trip and 2 Auxiliary Switches	
AC	DC	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$
120		U01JLD6	636.00	U01JLD62A	897.00	U01JLD62AA	1157.00
208		U02JLD6▲	636.00	U02JLD62A▲	897.00	U02JLD62AA▲	1157.00
240		U03JLD6	636.00	U03JLD62A▲	897.00	U03JLD62AA▲	1157.00
480		U06JLD6	636.00	U06JLD64A▲	897.00	U06JLD64AA▲	1157.00
	24	U13JLD6	636.00	U13JLD62A	897.00	U13JLD62AA	1157.00
	48	U14JLD6▲	636.00	U14JLD62A▲	897.00	U14JLD62AA▲	1157.00
	125	U10JLD6▲	636.00	U10JLD62A▲	897.00	U10JLD62AA▲	1157.00
	250	U12JLD6▲	636.00	U12JLD62A▲	897.00	U12JLD62AA▲	1157.00

Auxiliary Switch Combinations

Maximum Voltage		1 Form C		2 Form C	
AC	DC	Catalog Number	List Price \$	Catalog Number	List Price \$
480	250	A01JLD64	271.00	A02JLD64	540.00
—	12	A01JLDLV	342.00	A02JLDLV	684.00

Alarm Switch Combinations

Maximum Voltage		1 Alarm Switch		1 Alarm Switch and 1 Auxiliary Switch		1 Alarm Switch and 2 Auxiliary Switches	
AC	DC	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$
480	250	B01JLD64	271.00	A01JLD64B	540.00	A02JLD64B	802.00

Plug-in Ammeter Display Units

Breaker Type	Description	Catalog Number	List Price \$
SJD, SLD	Display Unit	SADU	1776.00
	Remote Mounting Kit	SADURMK18	342.00

Note: Accessory modules can only be added to right side pole of solid state SJD and SLD frame circuit breakers. No accessories can be added if mechanical interlock is used. All accessories on this page are useable on superseded JD2, JJ6, JL6, HJ6, SJL, LJ6, LL6, HL6 and SLL circuit breakers.

▲ Built to order. Allow 6–8 weeks for delivery.