Complete Assemblies—Molded Case Circuit Breakers

Siemens Enclosed Circuit Breaker Complete Assemblies consist of a thermal magnetic molded case circuit breaker frame, trip unit, enclosure and standard line and load pressure wire connectors — assembled and shipped as one unit from the Siemens modification center. For service equipment or applications requiring a solid neutral, neutrals must be priced and ordered separately except as noted.

To order, select the appropriate prefix from the table below and place it in front of the desired non-interchangeable trip or interchangeable trip circuit breaker catalog number. For circuit breaker selection, refer to pages 72 thru 89.

Note: Lead times are determined based on availability of components. Shaded items in this section may contain components that are not normally stocked.

Catalog Numbering

Prefix	Enclosure Type
E1S	Type 1 Surface
E1F	Type 1 Flush
E3R	Type 3R
E12	Type 12
E4X	Type 4X Stainless Steel

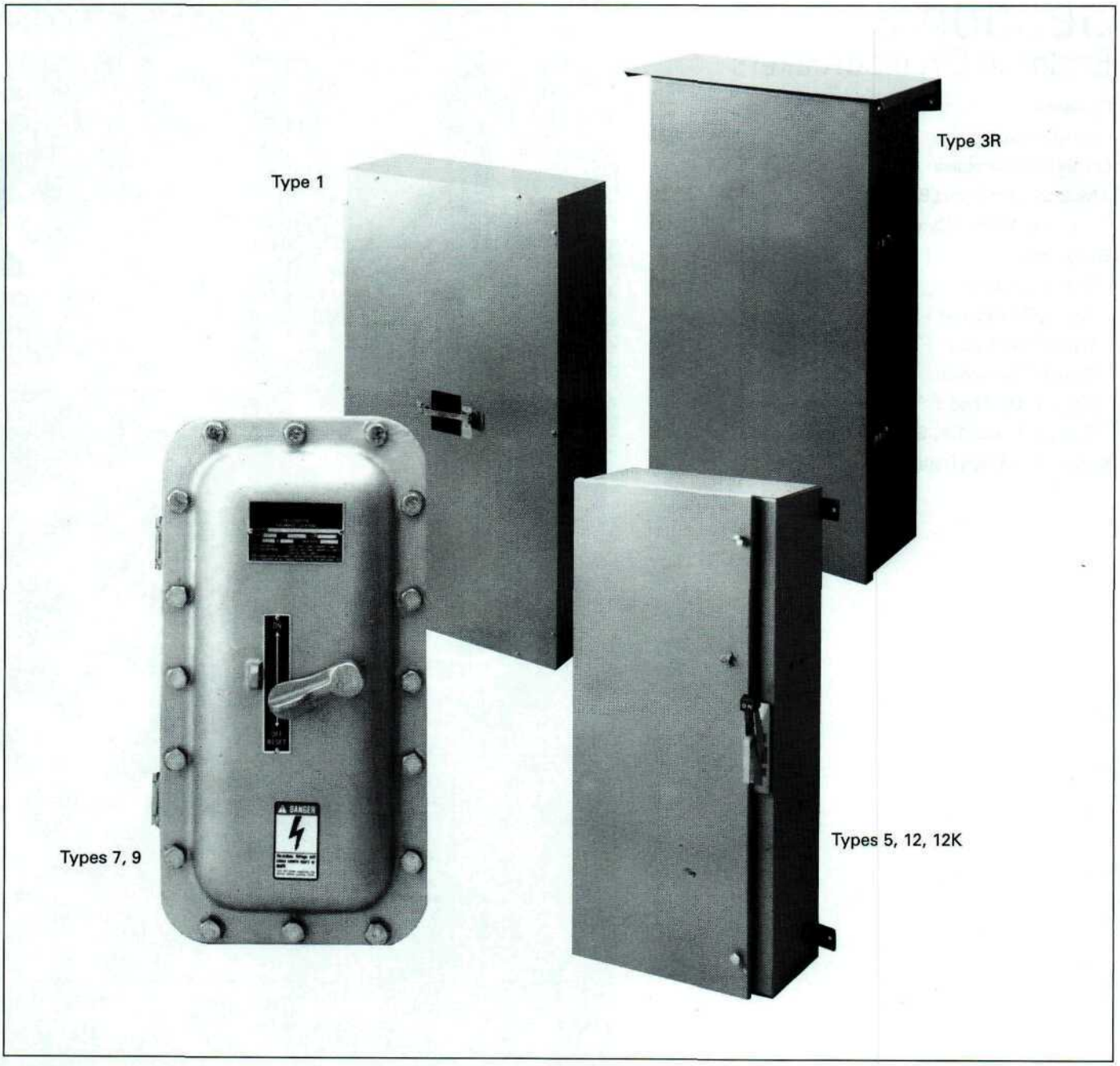
Example: Catalog number E1SJD63B400 consists of:

(1) JD63F400 frame
(1) JD63T400 trip unit
(1) J6N1 enclosure
(6) TA2J6500 wire connectors

Selection And Pricing By Enclosure Type

Circuit Breaker			List Price $ — Complete Assembly				Lug Catalog Number (included)	Neutrals	
Breaker Frame	Number of Poles	Ampere Rating	Type 1 Surface or Flush	Type 3R	Type 12	Type 4, 4X		Catalog Number	List Price $
QJ2	2	60-225	470.00	591.00	NA	NA	TA1Q300	Included with enclosure	
	3	60-225	1009.00	1155.00	NA	NA			
QJH2	2	60-225	933.00	1054.00	NA	NA	TA1Q300		
	3	60-225	1354.00	1500.00	NA	NA			
QJ2-H	2	60-225	1126.00	1247.00	NA	NA	TA1Q300		
	3	60-225	1680.00	1826.00	NA	NA			
ED2	2	15-60	343.00	547.00	425.00	2453.00	15-25A SA1E025 30-60A Line LN1E100 Load LD1E060 70-100 LN1E100 110-125A TA1E6125	Catalog Number **W53045** included with enclosure	
	2	70-100	486.00	690.00	568.00	2596.00			
	3	15-60	453.00	657.00	535.00	2563.00			
	3	70-100	597.00	801.00	679.00	2707.00			
ED4	2	15-60	526.00	730.00	608.00	2636.00			
	2	70-100	654.00	858.00	736.00	2764.00			
	2	110-125	1297.00	1654.00	1438.00	3313.00			
	3	15-60	652.00	856.00	734.00	2762.00			
	3	70-100	747.00	951.00	829.00	2857.00			
	3	110-125	1460.00	1817.00	1601.00	3476.00			
ED6	2	15-60	597.00	801.00	679.00	2707.00			
	2	70-100	723.00	927.00	805.00	2833.00			
	2	110-125	1382.00	1739.00	1523.00	3398.00			
	3	15-60	727.00	931.00	809.00	2837.00			
	3	70-100	880.00	1084.00	962.00	2990.00			
	3	110-125	1678.00	2035.00	1801.00	3694.00			

Enclosure Types



Type 1 — A general indoor, sheet-steel enclosure for use in normal atmospheres. Listed as service entrance equipment.

Type 3R — An outdoor, sheet-steel enclosure providing protection against driving rain, sleet or snow. Listed as service entrance equipment.

Types 7, 9 — Cast aluminum enclosure classified for explosion and fire hazard. Only enclosure for use in hazardous location. Class I; Group D–Class II; Groups E, F, and G–Class III.

Types 4, 4X (not shown) — Stainless steel indoor or outdoor enclosure designed for use in areas where serious corrosion problems exist. They provide a degree of protection against windblown dust, rain, splashing water and hose-directed water. Meets NEMA Type 3, 4, 4X, 12 and 13 requirements and UL 508 Type 4 and 4X requirements.

Types 5, 12 — A special-industry, sheet-steel enclosure for use in atmospheres containing particles of lint, dust, dirt, sawdust and other foreign matter.

Type 12K — A semi-dusttight sheet-steel enclosure. Listed as service entrance equipment.

Reference Guide

Thermal-Magnetic Trip Breakers

						General Purpose Breakers								
						JXD2-A	JD6-A, JXD6-A	HJD6-A, HJXD6-A	HHJD6-A, HHJXD6-A	CJD6	LD6, LXD6	HLD6, HLXD6	HHLD6, HHLXD6	CLD6
Page						78	78	79	79	79	80	81	81	81
Ratings	AC	Poles				2, 3	2, 3	2, 3	2, 3	2, 3	2, 3	2, 3	2, 3	2, 3
		Amperes, Continuous				200-400	200-400	200-400	200-400	200-400	450-600	250-600	250-600	450-600
		Volts 50/60HZ			2-Pole	240	600	600	600	600	600	600	600	600
					3-Pole									
		Interrupt Rating Symmetrical RMS Amperes	UL		240V	65,000	65,000	100,000	200,000	200,000	65,000	100,000	200,000	200,000
					480V	—	35,000	65,000	100,000	150,000	35,000	65,000	100,000	150,000
					600V	—	25,000	35,000	50,000	100,000	25,000	35,000	50,000	100,000
			IEC 947-2 50/60HZ	220/240V	Icu	—	65,000	100,000	200,000	—	65,000	100,000	200,000	—
					Ics	—	33,000	50,000	100,000	—	33,000	50,000	100,000	—
				380/415V	Icu	—	40,000	65,000	100,000	—	40,000	65,000	100,000	—
					Ics	—	20,000	33,000	50,000	—	20,000	33,000	50,000	—
				500V	Icu	—	30,000	42,000	65,000	—	30,000	42,000	65,000	—
					Ics	—	15,000	21,000	33,000	—	15,000	21,000	33,000	—
	DC	2-Pole 250V DC Interrupting Ratings				30,000	30,000	30,000	—	30,000	30,000	30,000	—	30,000
		3-Pole, 500V DC Interrupting Ratings①				—	25,000	35,000	—	50,000	25,000	35,000	—	50,000
Dimensions in inches		Height				11.00	11.00	11.00	11.00	17.86	11.00	11.00	11.00	17.86
		Width			2-Pole	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50
					3-Pole									
		Depth				4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Overcurrent Devices		Thermal and Adjustable Magnetic Trip				√	√	√	√	√	√	√	√	√
		Adjustable Magnetic Trip Only Motor Circuit Protector				—	—	—	—	√	√	—	—	√
		Molded Case Switch				√	√	—	—	√	√	—	—	√
Accessories & Modifications		Undervoltage Trip				√	√	√	√	√	√	√	√	√
		Shunt Trip				√	√	√	√	√	√	√	√	√
		Auxiliary Switch				√	√	√	√	√	√	√	√	√
		Alarm Switch				√	√	√	√	√	√	√	√	√
		Mechanical Interlock				√	√	√	√	√	√	√	√	√
		Rear Connection Studs				√	√	√	√	√	√	√	√	√
		Electric Motor Operator				√	√	√	√	√	√	√	√	√
		Plug-In Mounting Assembly				√	√	√	√	√	√	√	√	√
		Fungus Proofing (ref. page 106)				√	√	√	√	√	√	√	√	√
Individual Enclosures		Type 1 — Indoor Surface				√	√	√	√	√	√	√	√	√
		Type 1 — Indoor, Flush				—	—	—	—	—	√	—	—	—
		Type 3R — Outdoor-Rainproof				√	√	√	√	—	√	√	√	—
		Type 7 — Flammable Gas Atmosphere				√	√	√	√	—	√	√	√	—
		Type 9 — Combustion Dusttight				√	√	√	√	—	√	√	√	—
		Type 5, 12 — Lint, Fine Dust, Oils, Coolants				√	√	√	√	√	√	√	√	√
		Type 12K — Semi-Dusttight				—	√	√	√	—	√	√	√	—

For inches / millimeters conversion, see Application Data section.

① For DC UPS application.

JD 400A Frame Sentron Series

Type JXD2-A

240V AC, 250V DC — Blue Label

Non-Interchangeable Trip (Assembled Circuit Breaker without Lugs)

Continuous Current Rating @ 40°C	2-Pole (3 Pole Width) Catalog Number	List Price $	3-Pole Catalog Number	List Price $
200	JXD22B200	1996.00	JXD23B200	2425.00
225	JXD22B225	1996.00	JXD23B225	2425.00
250	JXD22B250	1996.00	JXD23B250	2425.00
300	JXD22B300	1996.00	JXD23B300	2425.00
350	JXD22B350	1996.00	JXD23B350	2425.00
400	JXD22B400	1996.00	JXD23B400	2425.00

Type JXD6-A①

600V AC, 500V DC② — Blue Label

Non-Interchangeable Trip (Assembled Circuit Breaker without Lugs)

200	JXD62B200	2494.00	JXD63B200	2950.00
225	JXD62B225	2494.00	JXD63B225	2950.00
250	JXD62B250	2494.00	JXD63B250	2950.00
300	JXD62B300	2494.00	JXD63B300	2950.00
350	JXD62B350	2494.00	JXD63B350	2950.00
400	JXD62B400	2494.00	JXD63B400	2950.00

Type JD6-A

Blue Label

Interchangeable Trip

Continuous Current Rating @ 40°C	Complete Breaker Unassembled with Lugs Catalog Number	List Price $	Frame Only Catalog Number	List Price $	Trip Unit Only Catalog Number	List Price $
2-Pole 600V AC, 250V DC (3 Pole Width)						
200	JD62B200	2592.00	JD62F400	1038.00	JD62T200	1456.00
225	JD62B225	2592.00			JD62T225	1456.00
250	JD62B250	2592.00			JD62T250	1456.00
300	JD62B300	2592.00			JD62T300	1456.00
350	JD62B350	2592.00			JD62T350	1456.00
400	JD62B400	2592.00			JD62T400	1456.00
3-Pole 600V AC, 500V DC②						
200	JD63B200	3097.00	JD63F400	1328.00	JD63T200	1622.00
225	JD63B225	3097.00			JD63T225	1622.00
250	JD63B250	3097.00			JD63T250	1622.00
300	JD63B300	3097.00			JD63T300	1622.00
350	JD63B350	3097.00			JD63T350	1622.00
400	JD63B400	3097.00			JD63T400	1622.00

Interrupting Ratings

Breaker Type	RMS Symmetrical Amperes (KA) UL 489 AIR (File E10848) Volts AC (50/60Hz) 240	480	600	Volts DC 250	500③	IEC 947-2 Volts AC (50/60Hz) 220/240 Icu	Ics	380/415 Icu	Ics	500 Icu	Ics
JXD2-2	65	—	—	30 (2-P)	—	—	—	—	—	—	—
JXD6-2, JD6-A	65	35	25	30 (2-P)	25 (3-P)	65	33	40	20	30	15
HJD6-A, HJXD6-A	100	65	35	30 (2-P)	35 (3-P)	100	50	65	33	42	21
HHJD6-A, HHJXD6④	200	100	50	—	—	200	100	100	50	65	33
CJD6	200	150	100	30 (2-P)	50 (3-P)	—	—	—	—	—	—

Instantaneous Adjustment Trip Range

Breaker Ampere Rating	Nominal Instantaneous Values Low	2	3	4	5	6	7	High
200-300	1250	1430	1610	1790	1960	2140	2320	2500
350-400	2000	2290	2570	2860	3140	3430	3710	4000

①Type JXD6 circuit breakers are UL Listed for reverse feed applications.

②When wired as shown on page 49, this circuit breaker is UL listed and rated for use on 500V DC ungrounded UPS systems only.

③See **Note: A**, page 108.

④HHJD6 type circuit breakers meet the UL criteria for "current limiting" at 240 and 480V AC.

Note: JD frame qualified to UL489 supplement B "NAVAL." See page 111 for additional information.

Ordering Information

Complete Breaker Unassembled with Lugs

Prices of JD6, HJD6, and HHJD6 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 without Lugs

Prices of JXD6, HJXD6, HHJXD6, and CJD6 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 JXD2, JXD6 and HJXD6 breakers are available with 100% ratings. To order add suffix "H" to catalog number, and 10% to list price. 100% rated JD breakers require the use of 90°C Cu cable and lugs TC1J6600 or TC2J6500.

50°C Applications see page 111.

400Hz Applications see page 111.

Lugs For 75°C Wire③

Catalog Number	Cables per Lug	Wire Range	List Price Each $
TA2J6500	1, 2	#3/0-500 kcmil Cu	24.50
	2	#4/0-500 kcmil Al	
	1	250-500 kcmil Al	
TA1L6750	1	500-750 kcmil Al	60.00
	1	500-600 kcmil Cu	
TC1J6600	1	#3/0-600 kcmil Cu	61.00
TC2J6500	1, 2	#3/0-500 kcmil Cu	60.00
Compression Lug			
CCL600	1	#1/0-500 kcmil Cu/Al	118.00

Modifications page 111
Enclosures pages 34–46
Accessories pages 108–126

Built to order. Allow 2 weeks for production.

JD 400A Frame Sentron Series

Type HJD6-A, HJXD6-A②④

Black Label

Interchangeable Trip

Continuous Current Rating @ 40°C	Complete Breaker Unassembled with 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)						
200	HJD62B200	4250.00	HJD62F400	2696.00	JD62T200	1456.00
225	HJD62B225	4250.00			JD62T225	1456.00
250	HJD62B250	4250.00			JD62T250	1456.00
300	HJD62B300	4250.00			JD62T300	1456.00
350	HJD62B350	4250.00			JD62T350	1456.00
400	HJD62B400	4250.00			JD62T400	1456.00
3-Pole 600V AC, 500V DC①②⑤						
200	HJD63B200	5122.00	HJD63F400	3353.00	JD63T200	1622.00
225	HJD63B225	5122.00			JD63T225	1622.00
250	HJD63B250	5122.00			JD63T250	1622.00
300	HJD63B300	5122.00			JD63T300	1622.00
350	HJD63B350	5122.00			JD63T350	1622.00
400	HJD63B400	5122.00			JD63T400	1622.00

Type HHJD6, HHJXD6-A ②④

Black Label

2-Pole 600V AC (3 Pole Width)

200	HHJD62B200	5110.00	HHJD62F400	3556.00	JD62T200	1456.00
225	HHJD62B225	5110.00			JD62T225	1456.00
250	HHJD62B250	5110.00			JD62T250	1456.00
300	HHJD62B300	5110.00			JD62T300	1456.00
350	HHJD62B350	5110.00			JD62T350	1456.00
400	HHJD62B400	5110.00			JD62T400	1456.00
3-Pole 600V AC②						
200	HHJD63B200	6143.00	HHJD63F400	4374.00	JD63T200	1622.00
225	HHJD63B225	6143.00			JD63T225	1622.00
250	HHJD63B250	6143.00			JD63T250	1622.00
300	HHJD63B300	6143.00			JD63T300	1622.00
350	HHJD63B350	6143.00			JD63T350	1622.00
400	HHJD63B400	6143.00			JD63T400	1622.00

Type CJD6

Fuseless Current Limiting

Red Label

Non-Interchangeable Trip (Assembled Circuit Breakers Without Lugs)

Continuous Current Rating @ 40°C	2-Pole 600V AC/250V DC	3-Pole 600V AC/500V DC	
		Catalog Number	List Price $
200	For 2-pole application use outside poles of 3-pole circuit breaker	CJD63B200	6400.00
225		CJD63B225	6400.00
250		CJD63B250	6400.00
300		CJD63B300	6400.00
350		CJD63B350	6400.00
400		CJD63B400	6400.00

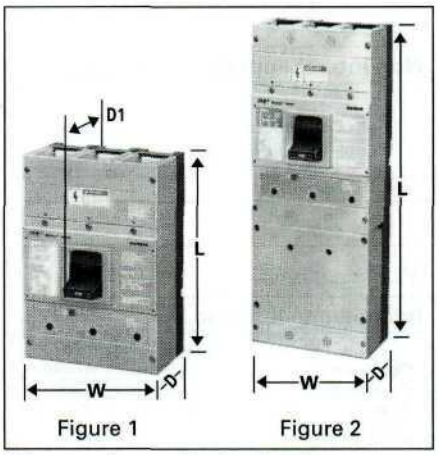


Figure 1 Figure 2

Dimensions (in inches)

Breaker Type	W	L	D	To Handle D1
Figure 1 JXD2-A, JXD6-A, JD6-A HJD6-A, HJXD6-A, HHJD6, HJD6, HJXD6, HHJXD6, JXD6-ETI③	7.5	11	4	5.44
Figure 2 CJD6, CJD6-ETI③	7.5	17.86	4	5.44

Enclosures

Type	Catalog Number	List Price $
1	J6N1	203.00
3R	J6N3R	1092.00
12	J6N12	568.00
4X	LD6SS4	5443.00
7, 9 (200-250A)	EC4	3773.00
7, 9 (300-400A)	EE	5221.00
Neutral	W60992	308.00

Shipping Weights

Number of Poles	Number per Carton	Shipping Weight (lbs.)
JXD2, JXD6, JD6, HJD6, HHJD6 Assembled Breaker (less terminals)		
2	1	17.5
3	1	19.5
JD6, HJD6, HHJD6 Frame Only		
2	1	14
3	1	15.5
JD6 Trip Unit Only		
2	1	3.5
3	1	4
CJD6 Complete Assembled Breaker (less terminals)		
2	1	29.5
3	1	31.5

For inches / millimeters conversion, see Application Data section.

2-pole units available in 3-pole construction.

①When wired as shown on page 49, this circuit breaker is UL listed and rated for use on 500V DC ungrounded UPS systems only.

②For non-interchangeable 3-pole HJD6 or HHJD6 type circuit breaker change the prefix identifier to HJXD6 or HHJXD6. Price equals price of frame plus price of trip, e.g. price of HJXD63B400 equals price of HJD63F400 plus price of JD63T400. Order lugs separately.

③JXD6-ETI, CJD6-ETI see page 106 for ordering information.

④Type HJXD6, HHJXD6 Circuit Breakers are UL listed for reverse fed applications.

⑤CE applies to non-interchangeable type HJXD only.

Built to order. Allow 2 weeks for production.