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# Enclosed Circuit Breakers

## Enclosure Types

General



**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.

# Enclosed Circuit Breakers

## Complete Assemblies—Molded Case Circuit Breakers

## Selection

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 SpeedFax Section 7.

**Note: Lead times are determined based on availability of components. Items marked with ■ in this section may contain components that are not normally stocked.**

### Catalog Numbering

Prefix	Enclosure Type	Example:	Catalog number E1SJD63B400 consists of:
E1S	Type 1 Surface		(1) JD63F400 frame (1) JD63T400 trip unit (1) J6N1 enclosure (6) TA2J6500 wire connectors
E1F	Type 1 Flush		
E3R	Type 3R		
E12	Type 12		
E4X	Type 4X Stainless Steel		

### Selection by Enclosure Type

Circuit Breaker			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
QJ2	2	60-225	✓	✓	—	—	TA1Q300	Included with enclosure
	3	60-225	✓	✓	—	—		
QJH2	2	60-225	✓	✓	—	—	TA1Q300	
	3	60-225	✓	✓	—	—		
QJ2-H	2	60-225	✓	✓	—	—	TA1Q300	
	3	60-225	✓	✓	—	—		
NGG	2, 3	15-30	✓	✓	✓	✓	3TC1Q1	N125GG included with enclosure
	2, 3	35-125	✓	✓	✓	✓	3TC1GG20	
ED2	2	15-60	✓	✓	✓	✓	15-25A SA1E025 30-60A Line LN1E100 Load LD1E060 70-100 LN1E100 110-125A TA1E6125	Catalog Number W53045 included with enclosure
	2	70-100	✓	✓	✓	✓		
ED4	3	15-60	✓	✓	✓	✓		
	3	70-100	✓	✓	✓	✓		
	3	110-125	✓	✓	✓	✓		
	2	15-60	✓	✓	✓	✓		
	2	70-100	✓	✓	✓	✓		
	2	110-125	✓	✓	✓	✓		
ED6	2	15-60	✓	✓	✓	✓		
	2	70-100	✓	✓	✓	✓		
	3	15-60	✓	✓	✓	✓		
	3	70-100	✓	✓	✓	✓		

✓ Available configuration  
— Not available

# Enclosed Circuit Breakers

## Complete Assemblies—Molded Case Circuit Breakers

*Selection*

Selection by Enclosure Type

Circuit Breaker			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	
HED4	2	15-60	✓	✓	✓	✓	Refer to page 7-88	Catalog Number <b>W53045</b> included with enclosure	
	2	70-100	✓	✓	✓	✓			
	2■	110-125	✓	✓	✓	✓			
	3	15-60	✓	✓	✓	✓			
	3	70-100	✓	✓	✓	✓			
	3	110-125	✓	✓	✓	✓			
CED6	2■	15-100	✓	✓	✓	—	Refer to page 7-88		
	2■	110-125	✓	✓	✓	—			
	3	15-100	✓	✓	✓	—			
	3■	110-125	✓	✓	✓	—			

Circuit Breaker			Complete Assembly				Lug Catalog Number (included)	Neutrals (not included)
Breaker Frame	Number of Poles	Ampere Rating	Type 1 Surface or Flush	Type 3R	Type 12	Type 4, 4X		Catalog Number
FXD6, FD6	2■	70-225 250	✓ ✓	✓ ✓	✓ ✓	✓ ✓	TA1FD350A	N250 <sup>②</sup>
	3	70-225 250	✓ ✓	✓ ✓	✓ ✓	✓ ✓		
HFD6	2■	70-225 250	✓ ✓	✓ ✓	✓ ✓	✓ ✓		
	3■	70-225 250	✓ ✓	✓ ✓	✓ ✓	✓ ✓		
CFD6	3■	70-225 250	✓ ✓	✓ ✓	✓ ✓	— —		
JXD2	2■	200-400	✓	✓	✓	✓		
	3	200-400	✓	✓	✓	✓		
JXD6, JD6	2■	200-400	✓	✓	✓	✓		
	3	200-400	✓	✓	✓	✓		
HJD6	2■	200-400	✓	✓	✓	✓		
	3	200-400	✓	✓	✓	✓		
HHJD6	2■	200-400	✓	✓	✓	✓		
	3■	200-400	✓	✓	✓	✓		
CJD6	3■	200-400	✓	✓	✓	—		

■ Built to order. Allow 2–3 weeks for delivery.  
 ✓ Available configuration  
 — Not available

① Order catalog number **W60993** neutral for type 4, 4X enclosure or when a 200% neutral is required.

② For 200% neutral order catalog number **N2250**

# Enclosed Circuit Breakers

## Complete Assemblies—Molded Case Circuit Breakers

*Selection*

Selection by Enclosure Type

Circuit Breaker			Complete Assembly				Lug Catalog Number (included)	Neutrals		
Breaker Frame	Number of Poles	Ampere Rating	Type 1 Surface	Type 3R	Type 12	Type 4, 4X		Catalog Number		
LXD6, LD6	2■	450-600	✓	✓	✓	✓	TA2J6500	W60993 <sup>①</sup>		
	3	450-600	✓	✓	✓	✓				
HLD6, HLXD6	2■	250-600	✓	✓	✓	✓				
	3	250-600	✓	✓	✓	✓				
HHLXD6 <sup>③</sup> , HHLD6	2■	450-600	✓	✓	✓	✓				
	3■	450-600	✓	✓	✓	✓				
CLD6	3■	450-600	✓	✓	✓	—				
LMXD6, LMD6	2■	500-800	✓	✓	✓	—			TA3K500	W63623 <sup>②</sup>
	3■	500-800	✓	✓	✓	—				
HLMXD6 <sup>③</sup> , HLMD6	2■	500-800	✓	✓	✓	—				
	3■	500-800	✓	✓	✓	—				
MXD6, MD6	2■	500-800	✓	✓	✓	—				
	3■	500-800	✓	✓	✓	—				
HMXD6 <sup>③</sup> , HMD6	2■	500-800	✓	✓	✓	—				
	3■	500-800	✓	✓	✓	—				
CMD6	3■	500-800	✓	✓	✓	—				

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

✓ Available configuration

— Not available

① For 200% neutral in Type 1, 3R & 12 enclosures use neutral catalog number **W63623**.

② For applications requiring 600MCM neutral conductors (max. 3 in & 3 out) use neutral catalog number **W411239**.

③ HHLXD6, HLMXD6 and HMXD6 are only available with 3-pole breakers.

# Enclosed Circuit Breakers

## Complete Assemblies—Molded Case Circuit Breakers

*Selection*

Selection by Enclosure Type

Circuit Breaker			Complete Assembly				Lug Catalog Number (included)	Neutrals
Breaker Frame	Number of Poles	Ampere Rating	Type 1 Surface	Type 3R	Type 12	Type 4, 4X		Catalog Number
NXD6	2■	900-1200	✓	✓	✓	—	<b>TA3K500</b> for 800A  <b>2TA4N8500</b> for 900-1200A 2-Pole  <b>3TA4N8500</b> for 900-1200A 3-Pole	W63623 <sup>®</sup>
	3	900-1200	✓	✓	✓	—		
ND6	2■	800	✓	✓	✓	—		
	2■	900-1200	✓	✓	✓	—		
3	3	800	✓	✓	✓	—		
	3	900-1200	✓	✓	✓	—		
HNXD6	3	900-1200	✓	✓	✓	—		
	2■	800	✓	✓	✓	—		
HND6	2■	900-1200	✓	✓	✓	—		
	3	800	✓	✓	✓	—		
3	3	900-1200	✓	✓	✓	—		
	3	900-1200	✓	✓	✓	—		
CND6	3■	900-1200	✓	✓	✓	—		
PXD6 <sup>①</sup>	3■	1200-1600	✓	✓	—	—	N2000	
PD6 <sup>①</sup>	3■	1200-1600	✓	✓	—	—		
HPXD6 <sup>①</sup>	3■	1200-1600	✓	✓	—	—		
HPD6 <sup>①</sup>	3■	1200-1600	✓	✓	—	—		
CPD6 <sup>①</sup>	3■	1200-1600	✓	✓	—	—		
RXD6 <sup>①</sup>	3	1600-2000	✓	✓	—	—		
RD6 <sup>①</sup>	3■	1600-2000	✓	✓	—	—		
HRXD6 <sup>①</sup>	3■	1600-2000	✓	✓	—	—		
HRD6 <sup>①</sup>	3■	1600-2000	✓	✓	—	—		
	3■	1600-2000	✓	✓	—	—		

### Special Application Complete Enclosures with Ground Fault Protection

The following assemblies are suitable for use as service entrance devices on services which require ground fault protection.

Selection by Enclosure Type

Breaker Type	Ampere Rating	Catalog Number	Catalog Number	Circuit Breaker Installed	Terminal Connector Installed	Neutral Installed	Neutral Sensor Installed
SND6 w/ground fault■	1000A	E1SSND69100GN	E3RSND69100GN	SND69100AG	3TA4N8500	W63623	N10SNDA
	1200A	E1SSND69120GN	E3RSND69120GN	SND69120AG	3TA4N8500	W63623	N12SNDA
SHND6 w/ground fault■	1000A	E1SSHND69100GN	E3RSHND69100GN	SHND69100AG	3TA4N8500	W63623	N10SNDA
	1200A	E1SSHND69120GN	E3RSHND69120GN	SHND69120AG	3TA4N8500	W63623	N12SNDA

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

✓ Available configuration

— Not available

① Not assembled — components shipped separately.

Includes connect-all mounting assembly

Catalog Number MB9301.

② For applications requiring 600MCM neutral conductors

(max. 3 in & 3 out) use neutral catalog number

W411239.

# Enclosed Circuit Breakers

## Complete Assemblies—Molded Case Circuit Switches

*Selection*

### Selection by Enclosure Type

Molded Case Switch			Enclosure Type				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
QJ2	2 ■	225	✓	✓	—	—	TA1Q300	Included with enclosure
	3	225	✓	✓	—	—		
ED2	2 ■	100	✓	✓	✓	✓	Refer to page 7-88	Catalog Number <b>W53045</b> included with enclosure
	3	100	✓	✓	✓	✓		
ED4	2 ■	100 125	✓ ✓	✓ ✓	✓ ✓	✓ ✓	Refer to page 7-88	
	3	100 125	✓ ✓	✓ ✓	✓ ✓	✓ ✓		
ED6	2 ■	100 125	— ✓	— ✓	— ✓	— ✓	Refer to page 7-88	
	3	100 125	✓ ✓	✓ ✓	✓ ✓	✓ ✓		
CED6	2 ■	100 125	✓ ✓	✓ ✓	✓ ✓	— —	Refer to page 7-88	
	3 ■	100 125	✓ ✓	✓ ✓	✓ ✓	— —		

Molded Case Switch			Enclosure Type					Lug Catalog Number (included)	Neutrals (not included)
Breaker Frame	Number of Poles	Ampere Rating	Type 1 Surface	Type 1 Flush	Type 3R	Type 12	Type 4, 4X		Catalog Number
FXD6	2	250	✓	✓	✓	✓	✓	TA1FD350A	N250 <sup>®</sup>
	3	250	✓	✓	✓	✓	✓		
CFD6	3 ■	250	✓	✓	✓	✓	—		
JXD2	2 ■	400	✓	—	✓	✓	✓	TA2J6500	W60992 <sup>®</sup>
	3	400	✓	—	✓	✓	✓		
JXD6	3	400	✓	—	✓	✓	✓	TA2J6500	W60992 <sup>®</sup>
CJD6	3 ■	400	✓	—	✓	✓	—	TA2J6500	W60992 <sup>®</sup>
LXD6	3	600	✓	—	✓	✓	✓	TA2J6500	W60993 <sup>®</sup>
CLD6	3 ■	600	✓	—	✓	✓	—	TA2J6500	W60993 <sup>®</sup>
MXD6	3	800	✓	—	✓	✓	—	TA3K500	W63623 <sup>®</sup>
CMD6	3 ■	800	✓	—	—	✓	—		
NXD6	3	1200	✓	—	—	✓	—	3TA4N8500	W63623 <sup>®</sup>
CND6	3 ■	1200	✓	—	—	✓	—		
PXD6 <sup>①</sup>	3 ■	1600	✓	—	—	—	—	TA5P500	N2000
RXD6 <sup>①</sup>	3 ■	2000	✓	—	—	—	—	TC5R600	N2000

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

✓ Available configuration

— Not available

① Not assembled — components shipped separately.

Includes connect-all mounting assembly Catalog Number MB9301.

② Order Catalog Number **W60993** neutral for Type 4, 4X enclosure or when a 200% neutral is required.

③ For 200% neutral order catalog number **N2250**

④ For 200% neutral in Type 1, 3R & 12 enclosures use neutral catalog number **W63623**.

⑤ For applications requiring 600 MCM neutral conductors (Max. 3 in and 3 out) use neutral catalog number **W411239**.