



3 to 990 KVA

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Products

- *Three-Phase Encapsulated: 3 KVA through 11 KVA**
- *Three-Phase Ventilated: 14 KVA through 990 KVA**

Applications

- *For industrial and commercial applications with SCR-controlled adjustable speed motor drives, and AC adjustable frequency or DC drives*

Specifications

- *Complete KVA range to cover all standard drive systems*
- *Cores of high quality electrical steel*
- *NEMA 3R-rated enclosures standard on 3 KVA through 11 KVA units*
- *NEMA 1-rated enclosures standard on 14 KVA through 990 KVA units*
- *Delta primary, wye secondary to match common power sources in most three-phase rectified circuits*
- *3KVA through 11KVA, 135°C temp rise*
- *14KVA through 990KVA, 150°C temperature rise standard on 220°C insulation class units*
- *Heat-cured ASA-61 gray powder coat finish*

Features, Functions, Benefits

- *Large connection compartment for ease of wiring and installation*
- *Internally braced for short circuit stress protection*
- *Low impedance for better voltage regulation*
- *Low flux density to minimize core saturation*
- *Tap arrangements provided to compensate for input voltage variation*
- *Quiet operation for installation flexibility*

Standards

- *Built in accordance with NEMA, ANSI, UL and CSA standards*

***Options and Accessories**

- *CE Marked units available as custom*
- *80°C and 115°C temperature rise available*
- *Wall mount brackets available on units up to 75 KVA and 150°C temperature rise*
- *Weathershields available on units 14 KVA through 990 KVA*
- *Copper windings available*

Drive Isolation

Designed to withstand periodic over current loads caused by electronic motor drives. DIT applications include SCR-controlled adjustable speed motor drives, and AC adjustable frequency or DC drives

Drive Selector Chart

To determine the proper size drive isolation transformer, locate the HP of the motors to be operated in the left hand column. The corresponding figure in the right hand column is the recommended transformer KVA. Use the selection table to determine the drive isolation transformer catalog number.

SELECTOR CHART

HP	KVA
2	3
3	6
5	7.5
7.5	11
10	14
15	20
20	27
25	34
30	40
40	51
50	63
60	75
75	93
100	118
125	145
150	175
200	220
250	275
300	330
400	440
500	550

Drive Isolation (DIT)

Primary 230 V Delta (Secondary 230Y/133) Taps: 1 @ 5%FCAN, 1 @ 5% FCBN

kVA	Old Catalog #	New Catalog #	Dimensions (inches)			Weight (lbs)	Figure	Wiring Diagram	Weather Shield
			A (H)	B (W)	C (D)				
3	413-0018-051	413-6ACC-000	13	15	8.06	82	4	DIT-CC	N/A
6	413-0019-051	413-6BCC-000	13	15	8.06	119	4	DIT-CC	N/A
7.5	413-0020-051	413-6CCC-000	15	19	9.06	157	4	DIT-CC	N/A
11	413-0021-051	413-6DCC-000	15	19	9.06	228	4	DIT-CC	N/A
14	423-0020-051	423-6ECC-000	22	19	16	255	7	DIT-CC	423-0007-019
20	423-0021-051	423-6FCC-000	22	19	16	255	7	DIT-CC	423-0007-019
27	423-0022-051	423-6GCC-000	25	22	17	295	7	DIT-CC	423-0007-022
34	423-0023-051	423-6HCC-000	25	22	17	295	7	DIT-CC	423-0007-022
40	423-0024-051	423-6JCC-000	28	25	19	350	7	DIT-CC	423-0007-025
51	423-0025-051	423-6KCC-000	28	25	19	350	7	DIT-CC	423-0007-025
63	423-0026-051	423-6LCC-000	32	27	21	535	7	DIT-CC	423-0007-027
75	423-0027-051	423-6MCC-000	32	27	21	535	7	DIT-CC	423-0007-027
93	423-0028-051	423-6NCC-000	38	29	23	675	7	DIT-CC	423-0007-029
118	423-0029-051	423-6PCC-000	38	29	23	835	7	DIT-CC	423-0007-029
145	423-0030-051	423-6RCC-000	42	33	26	980	7	DIT-CC	423-0007-033
175	223-0031-651	423-6SCC-000	46	35	30	1200	7	DIT-CC	423-0007-035
220	223-0032-651	423-6TCC-000	46	35	30	1380	7	DIT-CC	423-0007-035
275	223-0033-651	423-6UCC-000	46	35	30	1590	7	DIT-CC	423-0007-035
330	223-0034-651	423-6VCC-000	60	48	33	1680	7	DIT-CC	423-0007-048
440	223-0035-651	423-6WCC-000	60	48	33	2030	7	DIT-CC	423-0007-048
550	223-0036-651	423-6XCC-000	60	48	33	2530	7	DIT-CC	423-0007-048

Primary 230 V Delta (Secondary 460Y/266) Taps: 1 @ 5%FCAN, 1 @ 5% FCBN

kVA	Old Catalog #	New Catalog #	Dimensions (inches)			Weight (lbs)	Figure	Wiring Diagram	Weather Shield
			A (H)	B (W)	C (D)				
3	413-0018-056	413-6ACG-000	13	15	8.06	82	4	DIT-CG	N/A
6	413-0019-056	413-6BCG-000	13	15	8.06	119	4	DIT-CG	N/A
7.5	413-0020-056	413-6CCG-000	15	19	9.06	157	4	DIT-CG	N/A
11	413-0021-056	413-6DCG-000	15	19	9.06	228	4	DIT-CG	N/A
14	423-0020-056	423-6ECG-000	22	19	16	255	7	DIT-CG	423-0007-019
20	423-0021-056	423-6FCG-000	22	19	16	255	7	DIT-CG	423-0007-019
27	423-0022-056	423-6GCG-000	25	22	17	295	7	DIT-CG	423-0007-022
34	423-0023-056	423-6HCG-000	25	22	17	295	7	DIT-CG	423-0007-022
40	423-0024-056	423-6JCG-000	28	25	19	350	7	DIT-CG	423-0007-025
51	423-0025-056	423-6KCG-000	28	25	19	350	7	DIT-CG	423-0007-025
63	423-0026-056	423-6LCG-000	32	27	21	445	7	DIT-CG	423-0007-027
75	423-0027-056	423-6MCG-000	32	27	21	535	7	DIT-CG	423-0007-027
93	423-0028-056	423-6NCG-000	38	29	23	675	7	DIT-CG	423-0007-029
118	423-0029-056	423-6PCG-000	38	29	23	835	7	DIT-CG	423-0007-029
145	423-0030-056	423-6RCG-000	42	33	26	980	7	DIT-CG	423-0007-033
175	223-0031-656	423-6SCG-000	46	35	30	1200	7	DIT-CG	423-0007-035
220	223-0032-656	423-6TCG-000	46	35	30	1380	7	DIT-CG	423-0007-035
275	223-0033-656	423-6UCG-000	46	35	30	1590	7	DIT-CG	423-0007-035
330	223-0034-656	423-6VCG-000	60	48	33	1680	7	DIT-CG	423-0007-048
440	223-0035-656	423-6WCG-000	60	48	33	2030	7	DIT-CG	423-0007-048
550	223-0036-656	423-6XCG-000	60	48	33	2530	7	DIT-CG	423-0007-048

Date Dec 09

Drive Isolation (DIT)

Primary 460 V Delta (Secondary 230Y/133) Taps: 1 @ 5%FCAN, 1 @ 5% FCBN

kVA	Old Catalog #	New Catalog #	Dimensions (inches)			Weight (lbs)	Figure	Wiring Diagram	Weather Shield
			A (H)	B (W)	C (D)				
3	413-0018-052	413-6AGC-000	13	15	8.06	82	4	DIT-GC	N/A
6	413-0019-052	413-6BGC-000	13	15	8.06	119	4	DIT-GC	N/A
7.5	413-0020-052	413-6CGC-000	15	19	9.06	157	4	DIT-GC	N/A
11	413-0021-052	413-6DGC-000	15	19	9.06	228	4	DIT-GC	N/A
14	423-0020-052	423-6EGC-000	22	19	16	255	7	DIT-GC	423-0007-019
20	423-0021-052	423-6FGC-000	22	19	16	255	7	DIT-GC	423-0007-019
27	423-0022-052	423-6GGC-000	25	22	17	295	7	DIT-GC	423-0007-022
34	423-0023-052	423-6HGC-000	25	22	17	295	7	DIT-GC	423-0007-022
40	423-0024-052	423-6JGC-000	28	25	19	350	7	DIT-GC	423-0007-025
51	423-0025-052	423-6KGC-000	28	25	19	350	7	DIT-GC	423-0007-025
63	423-0026-052	423-6LGC-000	32	27	21	535	7	DIT-GC	423-0007-027
75	423-0027-052	423-6MGC-000	32	27	21	535	7	DIT-GC	423-0007-027
93	423-0028-052	423-6NGC-000	38	29	23	675	7	DIT-GC	423-0007-029
118	423-0029-052	423-6PGC-000	38	29	23	835	7	DIT-GC	423-0007-029
145	423-0030-052	423-6RGC-000	42	33	26	980	7	DIT-GC	423-0007-033
175	223-0031-652	423-6SGC-000	46	35	30	1200	7	DIT-GC	423-0007-035
220	223-0032-652	423-6TGC-000	46	35	30	1380	7	DIT-GC	423-0007-035
275	223-0033-652	423-6UGC-000	46	35	30	1590	7	DIT-GC	423-0007-035
330	223-0034-652	423-6VGC-000	60	48	33	1680	7	DIT-GC	423-0007-048
440	223-0035-652	423-6WGC-000	60	48	33	2030	7	DIT-GC	423-0007-048
550	223-0036-652	423-6XGC-000	60	48	33	2530	7	DIT-GC	423-0007-048

Primary 460 V Delta (Secondary 460Y/266) Taps: 1 @ 5%FCAN, 1 @ 5% FCBN

kVA	Old Catalog #	New Catalog #	Dimensions (inches)			Weight (lbs)	Figure	Wiring Diagram	Weather Shield
			A (H)	B (W)	C (D)				
3	413-0018-054	413-6AGG-000	13	15	8.06	82	4	DIT-GG	N/A
6	413-0019-054	413-6BGG-000	13	15	8.06	119	4	DIT-GG	N/A
7.5	413-0020-054	413-6CGG-000	15	19	9.06	157	4	DIT-GG	N/A
11	413-0021-054	413-6DGG-000	15	19	9.06	228	4	DIT-GG	N/A
14	423-0020-054	423-6EGG-000	22	19	16	255	7	DIT-GG	423-0007-019
20	423-0021-054	423-6FGG-000	22	19	16	255	7	DIT-GG	423-0007-019
27	423-0022-054	423-6GGG-000	25	22	17	295	7	DIT-GG	423-0007-022
34	423-0023-054	423-6HGG-000	25	22	17	295	7	DIT-GG	423-0007-022
40	423-0024-054	423-6JGG-000	28	25	19	350	7	DIT-GG	423-0007-025
51	423-0025-054	423-6KGG-000	28	25	19	350	7	DIT-GG	423-0007-025
63	423-0026-054	423-6LGG-000	32	27	21	535	7	DIT-GG	423-0007-027
75	423-0027-054	423-6MGG-000	32	27	21	535	7	DIT-GG	423-0007-027
93	423-0028-054	423-6NGG-000	38	29	23	675	7	DIT-GG	423-0007-029
118	423-0029-054	423-6PGG-000	38	29	23	835	7	DIT-GG	423-0007-029
145	423-0030-054	423-6RGG-000	42	33	26	980	7	DIT-GG	423-0007-033
175	223-0031-654	423-6SGG-000	46	35	30	1200	7	DIT-GG	423-0007-035
220	223-0032-654	423-6TGG-000	46	35	30	1380	7	DIT-GG	423-0007-035
275	223-0033-654	423-6UGG-000	46	35	30	1590	7	DIT-GG	423-0007-035
330	223-0034-654	423-6VGG-000	60	48	33	1680	7	DIT-GG	423-0007-048
440	223-0035-654	423-6WGG-000	60	48	33	2030	7	DIT-GG	423-0007-048
550	223-0036-654	423-6XGG-000	60	48	33	2530	7	DIT-GG	423-0007-048

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Drive Isolation (DIT)

Primary 575 V Delta (Secondary 230Y/133) Taps: 1 @ 5%FCAN, 1 @ 5% FCBN

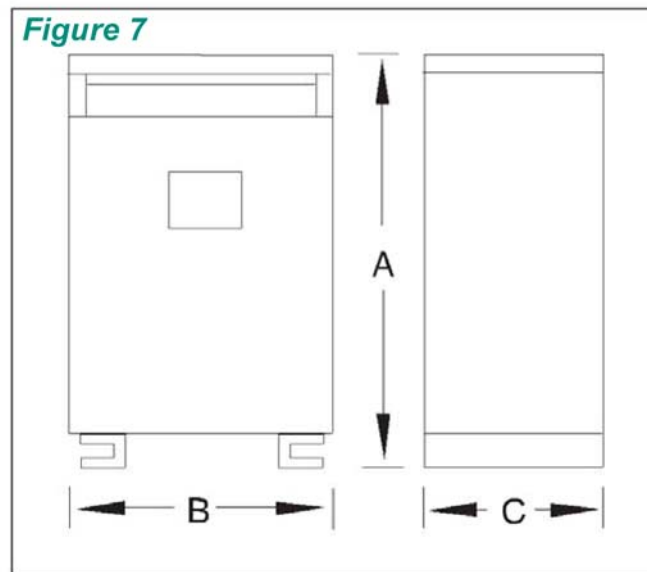
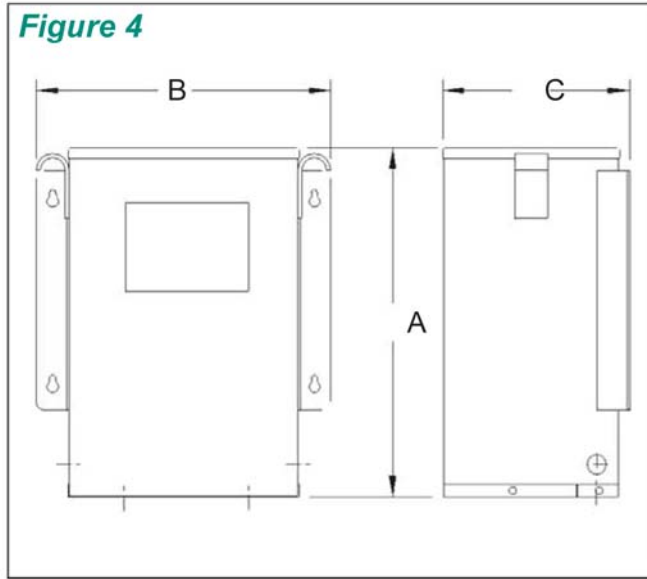
kVA	Old Catalog #	New Catalog #	Dimensions (inches)			Weight (lbs)	Figure	Wiring Diagram	Weather Shield
			A (H)	B (W)	C (D)				
3	413-0018-053	413-6ALC-000	13	15	8.06	82	4	DIT-LC	N/A
6	413-0019-053	413-6BLC-000	13	15	8.06	119	4	DIT-LC	N/A
7.5	413-0020-053	413-6CLC-000	15	19	9.06	157	4	DIT-LC	N/A
11	413-0021-053	413-6DLC-000	15	19	9.06	228	4	DIT-LC	N/A
14	423-0020-053	423-6ELC-000	22	19	16	255	7	DIT-LC	423-0007-019
20	423-0021-053	423-6FLC-000	22	19	16	255	7	DIT-LC	423-0007-019
27	423-0022-053	423-6GLC-000	25	22	17	295	7	DIT-LC	423-0007-022
34	423-0023-053	423-6HLC-000	25	22	17	295	7	DIT-LC	423-0007-022
40	423-0024-053	423-6JLC-000	28	25	19	350	7	DIT-LC	423-0007-025
51	423-0025-053	423-6KLC-000	28	25	19	350	7	DIT-LC	423-0007-025
63	423-0026-053	423-6LLC-000	32	27	21	535	7	DIT-LC	423-0007-027
75	423-0027-053	423-6MLC-000	32	27	21	535	7	DIT-LC	423-0007-027
93	423-0028-053	423-6NLC-000	38	29	23	675	7	DIT-LC	423-0007-029
118	423-0029-053	423-6PLC-000	38	29	23	835	7	DIT-LC	423-0007-029
145	423-0030-053	423-6RLC-000	42	33	26	980	7	DIT-LC	423-0007-033
175	223-0031-653	423-6SLC-000	46	35	30	1200	7	DIT-LC	423-0007-035
220	223-0032-653	423-6TLC-000	46	35	30	1380	7	DIT-LC	423-0007-035
275	223-0033-653	423-6ULC-000	46	35	30	1590	7	DIT-LC	423-0007-035
330	223-0034-653	423-6VLC-000	60	48	33	1680	7	DIT-LC	423-0007-048
440	223-0035-653	423-6WLC-000	60	48	33	2030	7	DIT-LC	423-0007-048
550	223-0036-653	423-6XLC-000	60	48	33	2530	7	DIT-LC	423-0007-048

Primary 575 V Delta (Secondary 460Y/266) Taps: 1 @ 5%FCAN, 1 @ 5% FCBN

kVA	Old Catalog #	New Catalog #	Dimensions (inches)			Weight (lbs)	Figure	Wiring Diagram	Weather Shield
			A (H)	B (W)	C (D)				
3	413-0018-055	413-6ALG-000	13	15	8.06	82	4	DIT-LG	N/A
6	413-0019-055	413-6BLG-000	13	15	8.06	119	4	DIT-LG	N/A
7.5	413-0020-055	413-6CLG-000	15	19	9.06	157	4	DIT-LG	N/A
11	413-0021-055	413-6DLG-000	15	19	9.06	228	4	DIT-LG	N/A
14	423-0020-055	423-6ELG-000	22	19	16	255	7	DIT-LG	423-0007-019
20	423-0021-055	423-6FLG-000	22	19	16	255	7	DIT-LG	423-0007-019
27	423-0022-055	423-6GLG-000	25	22	17	295	7	DIT-LG	423-0007-022
34	423-0023-055	423-6HLG-000	25	22	17	295	7	DIT-LG	423-0007-022
40	423-0024-055	423-6JLG-000	28	25	19	350	7	DIT-LG	423-0007-025
51	423-0025-055	423-6KLG-000	28	25	19	350	7	DIT-LG	423-0007-025
63	423-0026-055	423-6LLG-000	32	27	21	535	7	DIT-LG	423-0007-027
75	423-0027-055	423-6MLG-000	32	27	21	535	7	DIT-LG	423-0007-027
93	423-0028-055	423-6NLG-000	38	29	23	675	7	DIT-LG	423-0007-029
118	423-0029-055	423-6PLG-000	38	29	23	835	7	DIT-LG	423-0007-029
145	423-0030-055	423-6RLG-000	42	33	26	980	7	DIT-LG	423-0007-033
175	223-0031-655	423-6SLG-000	46	35	30	1200	7	DIT-LG	423-0007-035
220	223-0032-655	423-6TLG-000	46	35	30	1380	7	DIT-LG	423-0007-035
275	223-0033-655	423-6ULG-000	46	35	30	1590	7	DIT-LG	423-0007-035
330	223-0034-655	423-6VLG-000	60	48	33	1680	7	DIT-LG	423-0007-048
440	223-0035-655	423-6WLG-000	60	48	33	2030	7	DIT-LG	423-0007-048
550	223-0036-655	423-6XLG-000	60	48	33	2530	7	DIT-LG	423-0007-048

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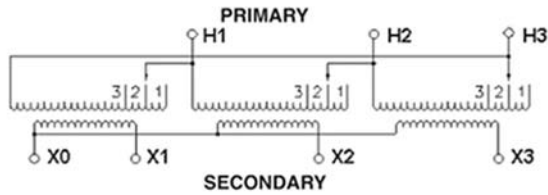
Drive Isolation

DITCC Wiring Diagram & Connections

Wiring Diagram

Primary: 230

Secondary: 230Y/133 Volts



Connections

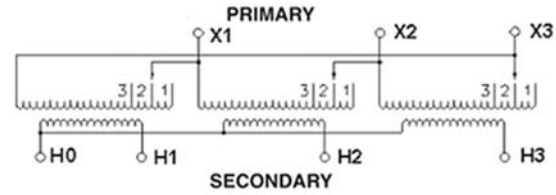
Primary Volts	On Each Coil Jumper Taps To	Primary Lines Connect To
242	1	H1, H2, H3
230	2	H1, H2, H3
218	3	H1, H2, H3
Sec. Volts	Secondary Lines Connect To	
230	X1, X2, X3	
133 1 Phase	Between X0 and X1 or X2 or X3	

DITCG Wiring Diagram & Connections

Wiring Diagram

Primary: 230

Secondary: 460Y/266 Volts



Connections

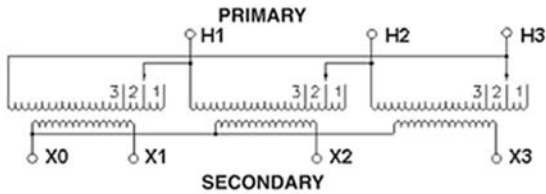
Primary Volts	On Each Coil Jumper Taps To	Primary Lines Connect To
242	1	X1, X2, X3
230	2	X1, X2, X3
218	3	X1, X2, X3
Sec. Volts	Secondary Lines Connect To	
460	H1, H2, H3	
266 1 Phase	Between H0 and H1 or H2 or H3	

DITGC Wiring Diagram & Connections

Wiring Diagram

Primary: 460

Secondary: 230Y/133 Volts



Connections

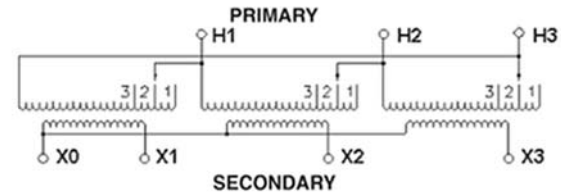
Primary Volts	On Each Coil Jumper Taps To	Primary Lines Connect To
483	1	H1, H2, H3
460	2	H1, H2, H3
437	3	H1, H2, H3
Sec. Volts	Secondary Lines Connect To	
230	X1, X2, X3	
133 1 Phase	Between X0 and X1 or X2 or X3	

DITGG Wiring Diagram & Connections

Wiring Diagram

Primary: 460

Secondary: 460Y/266 Volts



Connections

Primary Volts	On Each Coil Jumper Taps To	Primary Lines Connect To
483	1	H1, H2, H3
460	2	H1, H2, H3
437	3	H1, H2, H3
Sec. Volts	Secondary Lines Connect To	
460	X1, X2, X3	
266	Between X0 and X1 or X2 or X3	

NOTE: Electrostatic shields are optionally available and not shown in all wiring diagrams. * Insulate unused taps individually.

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Version JE901 1209

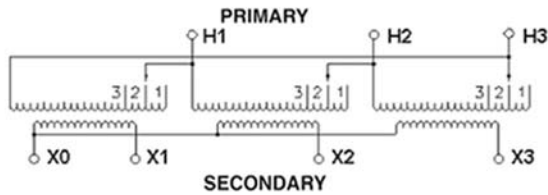
Version

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Drive Isolation

DITLC Wiring Diagram & Connections

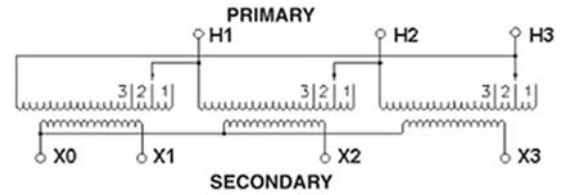
Wiring Diagram	
Primary: 575	Secondary: 230Y/133 Volts



Connections		
Primary Volts	On Each Coil Jumper Taps To	Primary Lines Connect To
604	1	H1, H2, H3
575	2	H1, H2, H3
546	3	H1, H2, H3
Sec. Volts	Secondary Lines Connect To	
230	X1, X2, X3	
133	Between X0 and X1 or X2 or X3	

DITLG Wiring Diagram & Connections

Wiring Diagram	
Primary: 575	Secondary: 460Y/266 Volts



Connections		
Primary Volts	On Each Coil Jumper Taps To	Primary Lines Connect To
604	1	H1, H2, H3
575	2	H1, H2, H3
546	3	H1, H2, H3
Sec. Volts	Secondary Lines Connect To	
460	X1, X2, X3	
266	Between X0 and X1 or X2 or X3	

NOTE: Electrostatic shields are optionally available and not shown in all wiring diagrams. * Insulate unused taps individually.