

Mechanical Lug Kits

Low Voltage Transformers

Class 7400

Catalog
March

06



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Mechanical Lug Kits

Wire Ranges and Catalog Numbers

WIRE RANGES AND CATALOG NUMBERS

Schneider Electric's new primary and secondary mechanical lug kits can be coordinated with standard wire ranges for primary Square D® circuit breakers, safety switches, and panelboards. Refer to Tables 1 and 2 for a listing of primary and secondary mechanical lug kits and wire ranges.

Table 1: Primary Mechanical Lug Kits

Catalog Number	Lugs per Kit	Number of Wires per Lug and Wire Range (Aluminum or Copper)	Cap Screws		Handles Same Standard Wire Range ¹	
			Quantity	Size	Square D Circuit Breaker Frame	Square D Safety Switch Amperage Rating
7400DASKP100	3	1/0–14 STR. ²	3	1/4 x 1 in	F-Frame G-Frame Powerpact® Q ³ Powerpact H	100 A
7400DASKP250	3	350 kcmil–6 STR.	3	1/4 x 1 in	Powerpact Q ⁴ Powerpact J	200 A
7400DASKP400	3	600 kcmil–4 STR. (2) 250 kcmil–1/0 STR.	3	1/4 x 1 3/4 in	Q4-Frame L-Frame (400 A)	400 A
7400DASKP600	6	600 kcmil–4 STR. (2) 250 kcmil–1/0 STR.	6	1/4 x 1 3/4 in	L-Frame (600 A)	600 A
7400DASKP1000	9	600 kcmil–2 STR.	9	3/8 x 2 in	Powerpact M	800 A
7400DASKP1200	12	600 kcmil–2 STR.	12	3/8 x 2 in	Powerpact P	1200 A

¹ Does not handle the full range of safety switch, but is acceptable since extra capacity is for voltage drop. Normally, this is not an issue because of the National Electrical Code (NEC) for primary protection distance on transformers.

² STR. = Strand

³ Handles through 1/0, not 300 kcmil

⁴ Does not handle 8–14 STR

Table 2: Secondary Mechanical Lug Kits

Catalog Number	Lugs per Kit	Number of Wires per Lug and Wire Range (Aluminum or Copper)	Cap Screws		Handles Same Standard Wire Range ¹			Bonding Lugs	
			Qty.	Size	Square D Circuit Breaker Frame (Molded Case Switches)	Panelboards: -Main Lugs Main - Circuit Breaker	Safety Switch Amp. Rating	Lugs per Kit	Number of Wires per Lug and Wire Range (Aluminum or Copper)
7400DASKS100	5	1/0–14 STR. ²	6	1/4 x 1 in	F-Frame G-Frame Powerpact Q ³	100 A NQOD 100 A I-Line®	100 A	1	2–14 STR.
7400DASKS250	5	350 kcmil–6 STR.	6	1/4 x 1 in	Q-Frame ⁴ Powerpact J	225 A NQOD 250 A NF 225 A I-Line	200 A	1	2–14 STR.
7400DASKS400	5	600 kcmil–4 STR. (2) 250 kcmil–1/0 STR.	6	1/4 x 1 3/4 in	Q4-Frame L-Frame (400 A)	400 A NQOD ⁵ 400 A NF ⁵ 400 A I-Line	400 A	1	1/0–14 STR.
7400DASKS600	10	600 kcmil–2 STR.	11	1/4 x 1 3/4 in	L-Frame (600 A)	600 A NQOD (Main Lug Only) 600 A NF ⁵ 600 A I-Line	600 A	1	250 kcmil–6 STR.
7400DASKS1000	15	600 kcmil–2 STR.	16	3/8 x 2 in	Powerpact M	600 A NQOD (Main Breaker Only) 800 A NF 800 A I-Line	800 A	1	250 kcmil–6 STR.
7400DASKS1200	20	600 kcmil–2 STR.	21	3/8 x 2 in	Powerpact P	1200 A I-Line	1200 A	1	250 kcmil–6 STR.
7400DASKS2000	25	600 kcmil–2 STR.	26	3/8 x 2 in	—	—	—	1	350 kcmil–6 STR.

¹ Do not handle the full range of Safety Switch, but is acceptable since extra capacity is for voltage

² STR. = Strand

³ Handles through 1/0 not 300 kcmil

⁴ Does not handle 8–14 STR

⁵ (2) 250 kcmil not 300 kcmil (Main Lug) - (1) 600 kcmil not 750 kcmil (Main Lug)

Mechanical Lug Kits Primary Voltage Ratings and Catalog Numbers

PRIMARY VOLTAGE RATINGS AND CATALOG NUMBERS

Three-Phase Ratings

Refer to Tables 3 through 6 for three-phase primary voltage ratings.

Table 3: Three-Phase, 480 V Primary

kVA	Primary Voltage	Primary Current	NEC 450-3 (125%) Max. Amp. Ratings per NEC 240.6	Primary Lug Kit	NEC 450-3 (250%) Max. Amp. Ratings per NEC 240.6	Primary Lug Kit
15	480	18.06	25	7400DASKP100	45	7400DASKP100
30		36.13	50	7400DASKP100	90	7400DASKP100
45		54.19	70	7400DASKP100 7400DASKP250	125	7400DASKP250
75		90.32	125	7400DASKP250 7400DASKP400	225	7400DASKP250 7400DASKP400
112.5		135.48	175	7400DASKP250 7400DASKP400	300	7400DASKP250 7400DASKP400
150		180.64	225	7400DASKP250 7400DASKP400	450	7400DASKP600 ¹
225		270.95	350	7400DASKP400 7400DASKP600	600	7400DASKP600 7400DASKP1000 ¹
300		361.27	450	7400DASKP600	800	7400DASKP1000 ¹
500		602.12	800	7400DASKP1000	1200	7400DASKP1200 ¹

¹ Terminals are designed for back to back mounting.

Table 4: Three-Phase, 208 V Primary

kVA	Primary Voltage	Primary Current	NEC 450-3 (125%) Max. Amp. Ratings per NEC 240.6	Primary Lug Kit	NEC 450-3 (250%) Max. Amp. Ratings per NEC 240.6	Primary Lug Kit
15	208	41.69	60	7400DASKP100	100	7400DASKP100 7400DASKP125 7400DASKP250
30		83.37	110	7400DASKP250	200	7400DASKP250
45		125.06	175	7400DASKP250	300	7400DASKP250 7400DASKP400
75		208.43	300	7400DASKP250 7400DASKP400	500	7400DASKP600
112.5		312.64	400	7400DASKP400	700	7400DASKP1000 ¹
150		416.85	600	7400DASKP600	1000	7400DASKP1000 ¹
225		625.28	800	7400DASKP1000	1200	7400DASKP1200
300		833.70	1200	7400DASKP1200	2000	N/A

¹ Terminals are designed for back to back mounting.

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Primary Voltage Ratings and Catalog Numbers

Table 5: Three-Phase, 600 V Primary

kVA	Primary Voltage	Primary Current	NEC 450-3 (125%) Max. Amp. Ratings per NEC 240.6	Primary Lug Kit	NEC 450-3 (250%) Max. Amp. Ratings per NEC 240.6	Primary Lug Kit
15	600	14.45	20	7400DASKP100	45	7400DASKP100
30		28.90	40	7400DASKP100	90	7400DASKP100 7400DASKP250
45		43.35	60	7400DASKP100	125	7400DASKP250
75		72.25	100	7400DASKP100 7400DASKP250	225	7400DASKP250 7400DASKP400
112.5		108.38	150	7400DASKP250 7400DASKP400	300	7400DASKP250 7400DASKP400
150		144.51	200	7400DASKP250 7400DASKP400	450	7400DASKP400 7400DASKP600 ¹
225		216.76	300	7400DASKP400 7400DASKP600	600	7400DASKP600 7400DASKP1000 ¹
300		289.02	400	7400DASKP600	800	7400DASKP1000 ¹
500		481.70	700	7400DASKP1000	1200	7400DASKP1200 ¹

¹ Terminals are designed for back to back mounting.

Table 6: Three-Phase, 240 V Primary

kVA	Primary Voltage	Primary Current	NEC 450-3 (125%) Max. Amp. Ratings per NEC 240.6	Primary Lug Kit	NEC 450-3 (250%) Max. Amp. Ratings per NEC 240.6	Primary Lug Kit
15	240	36.13	50	7400DASKP100	90	7400DASKP100 7400DASKP250
30		72.25	100	7400DASKP100 7400DASKP125 7400DASKP250	175	7400DASKP250
45		108.38	150	7400DASKP250	250	7400DASKP250 7400DASKP400
75		180.64	250	7400DASKP250 7400DASKP400	450	7400DASKP400 7400DASKP600
112.5		270.95	350	7400DASKP400	600	7400DASKP600 7400DASKP1000
150		361.27	500	7400DASKP600	800	7400DASKP1000
225		541.91	700	7400DASKP1000	1200	7400DASKP1000 7400DASKP1200
300		722.54	1000	7400DASKP1000 7400DASKP1200	1600	N/A

Mechanical Lug Kits Primary Voltage Ratings and Catalog Numbers

Single-Phase Ratings

Refer to Tables 7 through 10 for single-phase primary voltage ratings.

Table 7: Single-Phase, 480 V Primary (Also Series Connection 240 x 480)

kVA	Primary Voltage	Primary Current	NEC 450-3 (125%) Max. Amp. Ratings per NEC 240.6	Primary Lug Kit	NEC 450-3 (250%) Max. Amp. Ratings per NEC 240.6	Primary Lug Kit
15	480	31.25	40	7400DASKP100	70	7400DASKP100
25		36.13	50	7400DASKP100	90	7400DASKP100 7400DASKP250
37.5		54.19	70	7400DASKP100	125	7400DASKP250
50		90.32	125	7400DASKP125 7400DASKP250	225	7400DASKP250 7400DASKP400
75		135.48	175	7400DASKP250	300	7400DASKP250 7400DASKP400
100		180.64	250	7400DASKP250 7400DASKP400	450	7400DASKP400 7400DASKP600
167		270.95	350	7400DASKP400 7400DASKP600	600	7400DASKP600 7400DASKP1000 ¹

¹ Terminals are designed for back to back mounting.

Table 8: Single-Phase, 240 V Primary (Also Parallel Connection 240 x 480)

kVA	Primary Voltage	Primary Current	NEC 450-3 (125%) Max. Amp. Ratings per NEC 240.6	Primary Lug Kit	NEC 450-3 (250%) Max. Amp. Ratings per NEC 240.6	Primary Lug Kit
15	240	62.50	80	7400DASKP100	150	7400DASKP250
25		104.17	150	7400DASKP250	250	7400DASKP250 7400DASKP400
37.5		156.25	200	7400DASKP250 7400DASKP400	350	7400DASKP400 7400DASKP600
50		208.33	300	7400DASKP250 7400DASKP400	500	7400DASKP600 7400DASKP1000
75		312.50	400	7400DASKP400 7400DASKP600	700	7400DASKP1000
100		416.67	600	7400DASKP600 7400DASKP1000	1000	7400DASKP1000 7400DASKP1200
167		695.83	1000	7400DASKP1000 7400DASKP1200	1600	N/A

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Primary Voltage Ratings and Catalog Numbers

Table 9: Single-Phase, 600 V Primary

kVA	Primary Voltage	Primary Current	NEC 450-3 (125%) Max. Amp. Ratings per NEC 240.6	Primary Lug Kit	NEC 450-3 (250%) Max. Amp. Ratings per NEC 240.6	Primary Lug Kit
15	600	25.00	35	7400DASKP100	60	7400DASKP100
25		41.67	60	7400DASKP100	100	7400DASKP100 7400DASKP250
37.5		62.50	80	7400DASKP100	150	7400DASKP250
50		83.33	110	7400DASKP250	200	7400DASKP250 7400DASKP400
75		125.00	175	7400DASKP250 7400DASKP400	300	7400DASKP250 7400DASKP400
100		166.67	225	7400DASKP250 7400DASKP400	400	7400DASKP400 7400DASKP600 ¹
167		278.33	350	7400DASKP400 7400DASKP600	600	7400DASKP600 7400DASKP1000 ¹

¹ Terminals are designed for back to back mounting.

Table 10: Single-Phase, 208 V Primary

kVA	Primary Voltage	Primary Current	NEC 450-3 (125%) Max. Amp. Ratings per NEC 240.6	Primary Lug Kit	NEC 450-3 (250%) Max. Amp. Ratings per NEC 240.6	Primary Lug Kit
15	208	72.12	100	7400DASKP100 7400DASKP250	175	7400DASKP250
25		120.19	175	7400DASKP250	300	7400DASKP250 7400DASKP400
37.5		180.29	250	7400DASKP250 7400DASKP400	450	7400DASKP400 7400DASKP600
50		240.38	350	7400DASKP250 7400DASKP400	600	7400DASKP600 7400DASKP1000
75		360.58	500	7400DASKP400 7400DASKP600	800	7400DASKP1000
100		480.77	700	7400DASKP600 7400DASKP1000	1200	7400DASKP1000 7400DASKP1200
167		802.88	1200	7400DASKP1000 7400DASKP1200	2000	N/A

Mechanical Lug Kits Secondary Voltage Ratings and Catalog Numbers

SECONDARY VOLTAGE RATINGS AND CATALOG NUMBERS

Three-Phase Ratings

Refer to Tables 11 through 13 for three-phase secondary voltage ratings.

Table 11: Three-Phase, 208Y/120 V Secondary

kVA	Secondary Voltage	Secondary Current	NEC 450-3 (125%) Max. Amp. Ratings per NEC 240.6	Secondary Lug Kit
15	208Y/120	41.69	60	7400DASKS100
30		83.37	110	7400DASKS250
45		125.06	175	7400DASKS250
75		208.43	300	7400DASKS250 7400DASKS400
112.5		312.64	400	7400DASKS400
150		416.85	600	7400DASKS600
225		625.28	800	7400DASKS1000 ¹
300		833.70	1200	7400DASKS1200
500		1389.51	2000	7400DASKS2000

¹ Terminals are designed for back to back mounting.

Table 12: Three-Phase, 240 V Delta Secondary (Also 240 V Delta with 120 CT)

kVA	Secondary Voltage	Secondary Current	NEC 450-3 (125%) Max. Amp. Ratings per NEC 240.6	Secondary Lug Kit
15	240	36.13	50	7400DASKS100
30		72.25	100	7400DASKS100 7400DASKS250
45		108.38	150	7400DASKS250
75		180.64	250	7400DASKS250 7400DASKS400
112.5		270.95	350	7400DASKS400
150		361.27	500	7400DASKS600
225		541.91	700	7400DASKS1000 ¹
300		722.54	1000	7400DASKS1200
500		1204.24	1600	7400DASKS2000

¹ Terminals are designed for back to back mounting.

Table 13: Three-Phase, 480 Y/277 V Secondary

kVA	Secondary Voltage	Secondary Current	NEC 450-3 (125%) Max. Amp. Ratings per NEC 240.6	Secondary Lug Kit
15	480Y/277	18.06	25	7400DASKS100
30		36.13	50	7400DASKS100
45		54.19	70	7400DASKS100 7400DASKS250
75		90.32	125	7400DASKS250 7400DASKS400
112.5		135.48	175	7400DASKS250 7400DASKS400
150		180.64	225	7400DASKS250 7400DASKS400
225		270.95	350	7400DASKS400 7400DASKS600
300		361.27	450	7400DASKS600
500		602.12	800	7400DASKS1000

Single-Phase Rating

Refer to Table 14 for single-phase secondary voltage ratings.

Table 14: Single-Phase, 120/240 V Secondary (Also 240 V Only)

kVA	Secondary Voltage	Secondary Current	NEC 450-3 (125%) Max. Amp. Ratings per NEC 240.6	Secondary Lug Kit
15	120/240 or 240	62.50	80	7400DASKS100
25		104.17	150	7400DASKS250
37.5		156.25	200	7400DASKS250
50		208.33	300	7400DASKS250 7400DASKS400
75		312.50	400	7400DASKS400 7400DASKS600
100		416.67	600	7400DASKS600 7400DASKS1000
167		695.83	1000	7400DASKS1000
				7400DASKS1200

TECHNICAL DATA

Refer to Tables 15 through 16 for lug kits, cable connection set screws, and torque values.

Table 15: Cable Connection Set Screw Recommended Torque Values

Wire Size	Torque (lb-in)
1/0–3 AWG	50
4–6 AWG	45
8 AWG	40
10–14 AWG	35
4–6 AWG	35
8 AWG	25
10–14 AWG	20
6 AWG–250 MCM	275
6 AWG–350 MCM	275
2 AWG–600 MCM	550
(1) 4 AWG–600 MCM (2) 0/1 AWG–250 MCM	550

Table 16: Lug Connection Hardware Recommended Torque Values

Bolt	Torque (lb-in)
1/4 in	75
5/16 in	135
3/8 in	230
7/16 in	360
1/2 in	480

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