

Thermal-Magnetic / Magnetic Only Molded Case Circuit Breakers Accessories

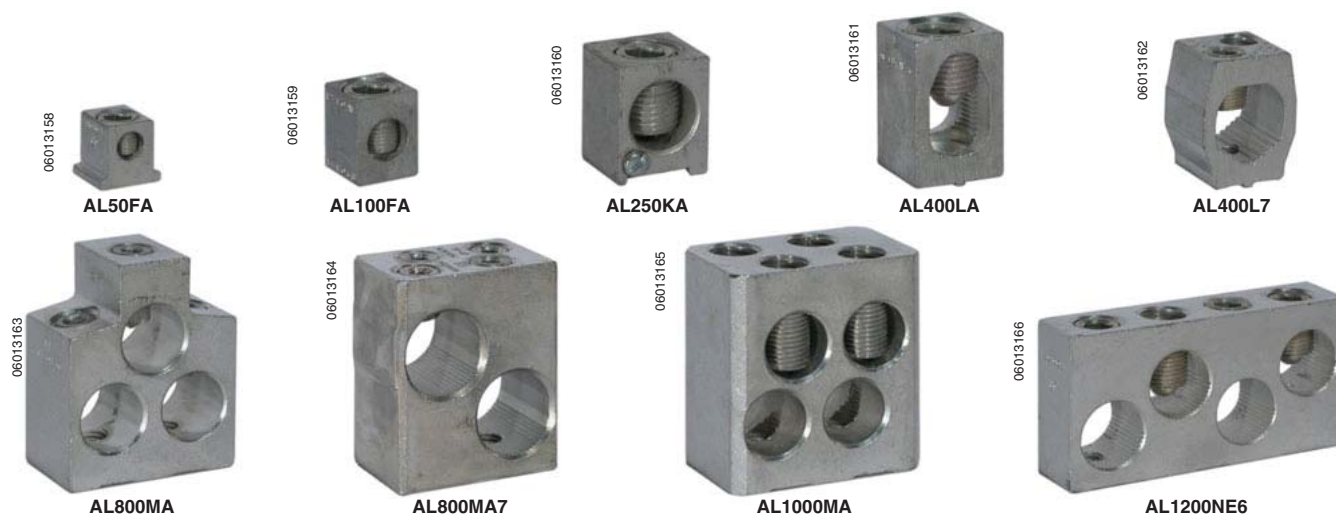


Table 72: Mechanical Lug Kit Wire Ranges and Torques—Selection Data

Lug Kit	No. of Lugs Per Kit	Circuit Breaker	Number of Wires Per Lug and Wire Ranges			Lug Mounting Screw Torque		Wire Binding Screw Torque		
			No. Wires	Domestic	Metric	Lb-in.	N•m	Wire	Lb-in.	N•m
AL50FA	3	FA, FH, FI	1	#14–#4 Cu or #12–#4 Al	2.5–25 mm ² 4–25 mm ²	40	4.5	Cu #14–#4 STR/SOL Al #12–#4 STR Al #12–#10 SOL	35 35 15	4.0 4.0 1.7
AL100FA4	3	FC	1	#14–#3 Cu or #12–#1 Al		65	7.3	Cu #14–#3 STR Cu #14–#8 SOL Al #8–#1 STR Al #12–#10 SOL	65 65 65 65	7.3 7.3 7.3 7.3
AL100FA	3	FA, FH, FI	1	#14–1/0 Cu or #12–1/0 Al	2.5–50 mm ² 4–50 mm ²	40	4.5	Cu #14–1/0 STR Al #12–1/0 STR Al #12–#10 SOL	80 80 40	9.0 9.0 4.5
AL100TF	3	FA, FH	1	#12–#3 Cu		50	5.7	Cu #12–#3 STR Cu #12–#10 SOL	50 50	5.6 5.6
AL250KA	3	KA, KH, KC, KI	1	#6–#350 kcmil	25–185 mm ²	80	9.0		250	28.2
AL250KI	3	KC, KI	1	1/0–#350 kcmil	50–185 mm ²	80	9.0		250	28.2
AL400LA	1	Q4, LA, LH	1 2	#0–#600 kcmil or #1–#250 kcmil	50–300 mm ² 50–120 mm ²	180	20.0		300	33.9
AL800MA7	1	MA, MH	2	#500–#750 kcmil	240–300 mm ²	180	20.0		300	33.9
AL900MA	1	MA, MH	3	3/0–#500 kcmil	95–240 mm ²	180	20.0		300	33.9
AL1000MA	1	MA, MH	4	1/0–#350 kcmil	50–185 mm ²	180	20.0		300	33.9
AL1200NE6	1	NA, NC	4	3/0–#600 kcmil	95–300 mm ²	250	28.2		330	37.3
AL2500PA	2	PAF, PHF, PCF	1	3/0–#750 kcmil	95–300 mm ²	840			550	
CU30FA4	3	FC	1	#14–#10 Cu		N/A	N/A	#14–#10 STR/SOL	35	4.0
CU100FA	3	FA, FH, FI	1	#14–#1 Cu	2.5–50 mm ²	50	5.7	Cu #3–#1 STR Cu #6–#4 STR Cu #8 STR/SOL Cu #14–#10 STR/SOL	50 45 40 35	5.7 5.1 4.5 4.0
CU100TF	3	FA, FH	1	#12–#3 Cu		50	5.7	Cu #12–#3 STR Cu #12–#10 SOL	50 50	5.7 5.7
CU250KA	3	KA, KH, KC, KI	1	#6–#250 MCM Cu	16–20 mm ²	80	9.0		250	22.6
CU400LA	1	Q4, LA, LH	2	#1–#600 MCM Cu #1–#250 MCM Cu	50–300 mm ² 50–120 mm ²	180	20.0		300	33.9
CU1000MA	1	MA, MH	3	3/0–#500 MCM Cu	95–240 mm ²	300	33.9		300	33.9
CU1200NE6	1	NA, NC	4	3/0–#600 MCM Cu	95–300 mm ²	250	28.2	330		37.3

STR = Stranded, SOL = Solid

Thermal-Magnetic / Magnetic Only Molded Case Circuit Breakers Accessories



VC250KA3

06013168



VC250KA35

06013169



VC400LA3

Table 73: Versatile Compression Lug Kit Wire Ranges and Mounting Screw Torques—Selection Data

Lug Kit	No. of Lugs Per Kit	Circuit Breaker	Versatile System Wire Ranges★		Lug Mounting Screw Torque		Versa-Crimp® Tool Type	Mounting Hole Dia./(Inches)
			Domestic	Metric	Lb-in.	N•m		
VC100FA	1	FA, FH, FC, FI	#8–1/0	10–50 mm ²	50	5.7	VC-6	.265
VC250KA3	1	KA, KH, KC, KI	#4–#300 MCM	25–150 mm ²	50	5.7	VC-6	.265
VC250KA35	1	KA, KH, KC, KI	#250–#350 MCM	120–185 mm ²	50	5.7	VC-6	.375
VC400LA3	2	LA, LH, Q4	#4–#300 MCM	25–150 mm ²	180	20.0	VC-6	.375
VC400LA5	1	LA, LH, Q4	2/0–#500 MCM	70–240 mm ²	250	28.2	VC-6	.390
VC400LA7	1	LA, LH, Q4	#500–#750 MCM Al or #500 MCM Cu	240–300 mm ² Al or 240 mm ² Cu	250	28.2	VC-6FT or VC-8	.390
VC800MA5	2	MA, MH	2/0–#500 MCM	70–240 mm ² Cu	300	33.9	VC-6	.500
VC800MA7	2	MA, MH	#500–#750 MCM Al or #500 MCM Cu	240–300 mm ² Al or 240 mm ² Cu	300	33.9	VC-6FT or VC-8	.500
VC1200NE5	4	NA, NC	2/0–#500 MCM	70–240 mm ² Cu	600	67.8	VC-6	.500
VC1200NE7	4	NA, NC	#500–#750 MCM Al or #500 MCM Cu	240–300 mm ² Al or 240 mm ² Cu	600	67.8	VC-6FT or VC-8	.500
VC2000PA5	1	PA, PH	2/0–#500 MCM	70–240 mm Cu ²	600	67.8	VC-6	.500
VC2000PA7	1	PA, PH, PCF	#500–#750 MCM Al or #500 MCM Cu	240–300 mm ² Al or 240 mm ² Cu	800	67.8	VC-6FT or VC-8	.500
CVC100FA	1	FA, FH, FI	#6–1/0	16–50 mm ² Cu	50	5.7	VC-6	.265
CVC250KA3	1	KA, KH, KC, KI	2/0–#300 MCM Cu	70–150 mm Cu ²	50	5.7	VC-6	.265
CVC400LA3	2	LA, LH, Q4	2/0–#300 MCM Cu	70–150 mm ² Cu	180	20.0	VC-6	.375
CVC400LA5	1	LA, LH, Q4	#250–#500 MCM Cu	120–240 mm ² Cu	250	28.2	VC-6	.390
CVC800MA5	2	MA, MH	#250–#500 MCM Cu	120–240 mm ² Cu	300	33.9	VC-6	.500
CVC1200NE5	4	NA, NC	#250–#500 MCM Cu	120–240 mm ² Cu	600	67.8	VC-6	.500
CVC1200NE7	4	NA, NC	#500–#750 MCM Cu	240–300 mm ² Cu	600	67.8	VC-6FT or VC-8	.500

★ Unless otherwise specified, wire ranges are for both aluminum and copper conductors.

Thermal-Magnetic / Magnetic Only Molded Case Circuit Breakers Accessories



PDC4LA250

Power Distribution Connectors

Power distribution connectors can be used for multiple lead wire connections on one circuit breaker. Field installable kits, including aluminum alloy connectors and all necessary mounting hardware, are available for the Square D® FA, KA, LA, Q4 and MA molded case circuit breakers. Each is UL Listed (per UL Standard 486a) for copper wire only. Power distribution connectors are for use on the OFF end of the circuit breaker only, when the OFF end is connected to the load.

Table 74: Power Distribution Connectors—Selection Data

Lug Kit	No. of Lugs Per Kit	Circuit Breaker	Wire Ranges (Copper only)		Lug Mounting Screw Torque		Wire Binding Screw Torque		
			Domestic	Metric	Lb-in.	N•m	Wire Size	Lb-in.	N•m
PDC6FA6	FA, FH, FI	6	#14–#6	2.5–16 mm ²	40	4.5	#14–#10 #8–#6	20 25	2.3 2.8
PDC3FA2	FA, FH, FI	3	#14–#2	2.5–35 mm ²	40	4.5	#14–#8 #6–#2	35 40	4.0 4.5
PDC6KA4	KA, KH, KC, KI	6	#14–#4	2.5–25 mm ²	80	9.0	#14–#10 #8–#4	20 35	2.3 4.0
PDC3KA20	KA, KH, KC, KI	3	(2) #14–#1	2.5–50 mm ²	80	9.0	#14–#8 #4–#1	35 40	4.0 4.5
			(1) #12–2/0	4–70 mm ²			#12–2/0	50	5.7
PDC6LA20	LA, LH, Q4	6	#12–2/0	4–70 mm ²	180	20.0	#12 #6–#10 #20–#4	35 45 50	4.0 5.1 5.7
PDC12LA4	LA, LH, Q4	12	#14–#4	2.5–25 mm ²	180	20.0	#14–#10 #8–#4	20 35	2.3 4.0
PDC4LA250	LA, LH, Q4	4	(3) #14–#1	2.5–35 mm ²	180	20.0	#6–#14 #1–#4	35 40	4.0 4.5
			(1) 2/0 #250 kcmil	35–120 mm ²			2/0–4/0 #250 kcmil	180 190	14.7 21.4
PDC6MA20	MA, MH, ME, MX	6	#12–2/0	4.70 mm ²	180	20.0	#12 #6–#10 2/0–#4 2/0–#4	35 45 50 50	4.0 5.1 5.7 5.7
PDC12MA4	MA, MH, ME, MX	12	#14–#4	2.5–25 mm ²	180	20.0	#14–#10 #8–#4	20 35	2.3 4.0

Rear Connecting Studs



Rear connecting studs are designed to allow rear termination in applications, such as control panels where wire gutter space may be limited. The studs can be bolted directly to the bus bars or lugs can be attached to the studs. Long and short studs should be alternated on adjacent poles to assure proper electrical clearance. These studs are not UL Listed.

Table 75: Rear Connecting Studs—Selection Data

Circuit Breaker Catalog Number Prefix	Ampere Ratings	Stud Catalog Number	Dimensions			
			Inches Millimeters			
			Overall Length	Back of Circuit Breaker	Diameter	Threads / Inches
FAL, FHL	15–100	FAS–20	2.25	2.00	0.125	16
			5.72	5.08	0.318	5.30
FAL, FHL	15–100	FAS–42	4.875	4.25	0.125	16
			2.383	0.795	0.318	6.30
KAL, KHL	70–225	KAS–21	2.25	2.125	0.50	13
			5.72	5.398	1.27	5.19

Continued on next page