

Special Magnetic or Thermal Calibration

(20% Price Adder)

Magnetic

The magnetic trip ranges for standard circuit breakers are listed in the Square D Digest. Requirements outside this range are best accommodated by selecting another standard circuit breaker. In some cases where this is not practical, a circuit breaker may be ordered with special magnetic calibration. Special magnetic calibration is not possible in all cases. Circuit breakers with special magnetic calibration and an **adjustable** magnetic trip range are **not** UL Listed; those with a **fixed** magnetic trip setting are UL Listed. Consult Schneider Electric local sales office for more information.

50 Degrees C

UL 489 Listed molded case circuit breakers are calibrated for 40 degree C ambient temperature. To meet requirements of higher ambient conditions, circuit breakers can be factory calibrated for a 50 degree C ambient temperature. Circuit breakers with special thermal calibration are not UL Listed. To order 50° calibration, add "35" suffix to FA/FH/LA/LH or CA to H or J thermal magnetic breakers and add 20% to the List price of the breaker. Consult local sales office for more information.

Rear-Connected Studs

Rear-connected studs are designed to allow rear termination in applications such as control panels where wire gutter space may be limited. The studs may be bolted directly to the bus or lugs may be attached to the studs.

NOTE: Long and short studs must be alternated on adjacent poles to assure proper electrical clearance

Rear-Connected Studs



Table 3.63: Rear-Connected Studs—Not UL Listed

Circuit Breaker Cat. No. Prefix	Ampere Ratings	Stud Cat. No.	Dimensions				\$ Price Per Stud
			Overall Length	To Back of Circuit Breaker	Diameter	Threads/Inch	
FAL, FHL	15–100 A	FAS20	2-1/4 in.	2 in.	3/8 in.	16	70.00
FAL, FHL	15–100 A	FAS42	4-7/8 in.	4-1/4 in.	3/8 in.	16	92.00
LAL, LHL	125–400 A	LAS54	6-3/16 in.	5-1/2 in.	3/4 in.	16	243.00
LAL, LHL	125–400 A	LAS114	12-3/16 in.	11-1/2 in.	3/4 in.	16	360.00

Note: Use alternate size studs on adjacent poles to obtain proper electrical clearance.

Visi-Blade Circuit Breaker



Visi-Blade™ Circuit Breakers

(20% Price Adder)

Visi-blade construction is a modification to the cover of a thermal-magnetic circuit breaker, a molded case switch, or a Mag-Gard™ circuit breaker which provides a "window" through which the position of the movable contacts can be verified. Luminescent paint is applied to the movable contact arms to clearly indicate their position. Gases produced during high level interruption may cause clouding of the Visi-blade window. Visi-Blade circuit breakers listed below are UL Listed except for FH circuit breakers. Visi-Blade construction is not available on circuit breakers not included in table below.

Add suffix letter "V" to the circuit breaker catalog number, i.e., FAL 36100V.

Table 3.64: Available Visi-Blade Circuit Breakers

Circuit Breaker Prefix	Amperes	\$ Price
FA, FH▲■	15–100 A	20% Price Adder
LA, LH	125–400 A	

- ▲ FH circuit breaker is not UL Listed.
- Not available on 1P FA/FH circuit breakers.

Moisture and Fungus Resistant Treatment for Circuit Breakers

(20% Price Adder)

This treatment covers the application of moisture and fungus resistant varnish to circuit breakers and molded case switches.

- The varnish meets Military Specification MIL-V-173C VARNISH, MOISTURE AND FUNGUS RESISTANT.
- The treatment meets military Specification MIL-T-152E TREATMENT, MOISTURE AND FUNGUS-RESISTANT, OF COMMUNICATIONS, ELECTRONIC, AND ASSOCIATED ELECTRICAL EQUIPMENT.

The treatment of circuit breakers in accordance with said specifications is intended to protect them against the moisture and fungus condition encountered in service by retarding the absorption of moisture and inhibiting the growth of fungi.

To order for F- and L-frame circuit breakers, place the suffix "FT" at the end of the circuit breaker catalog number, e.g., FAL36100 becomes FAL36100FT. To order for QB, QD, and QG circuit breakers, place the suffix "YF" at the end of the circuit breaker catalog number, e.g., QDL32150 becomes QDL32150YF. ED, EG, EF, GJL, PowerPact™ D-, H-, J-, M-, P- and R-frame circuit breakers are inherently fungus resistant and need no further treatment.

Short Handle for LA/LH Circuit Breakers (No Additional Charge)

Certain applications of the LA/LH circuit breakers (as mains in particular panelboards) require the use of a slightly shorter operating handle. For ordering information refer to the chart below.

Table 3.65: Catalog Numbers for Short Handle LA/LH Circuit Breakers

Lug Configuration Desired		Catalog "Prefix Indication"	Catalog "Suffix Indication"	Circuit Breaker Cat. No.
ON End	OFF End			
Lugs	Lugs	"L"	"MB"	LAL36400MB
No Lugs	Lugs	"P"	"MB"	LAP36400MB
Lugs	No Lugs	"P"	"MT"	LAP36400MT
No Lugs	No Lugs	"F"	"MB"	LAF36400MB