

3VA molded case circuit breaker

Integration IEC 61439 – $I_c \leq 17\text{kA}$

Integration		Breaking Capacity						
IEC 61439 – Short-Circuit-Test								
Values for 415V		B	N	S	M	H	C	L
3VA1	Icu	16 kA	25 kA	36 kA	55 kA	70 kA	–	–
3VA10 (3/4p)								
	16-80 A	OK	OK	OK	–	–	–	–
	100 A	OK	OK	33,0 kA	–	–	–	–
3VA11 (1/2p)								
	16-160 A	–	OK	OK	–	–	–	–
3VA11 (3/4p)								
	16-32 A	–	OK	OK	OK	OK	–	–
	40-80 A	–	OK	OK	OK	68,0 kA	–	–
	100-160 A	–	OK	33,0 kA	33,0 kA	33,0 kA	–	–
3VA12 (3/4p)								
	160-250 A	–	–	14,5 kA	14,5 kA	14,5 kA	–	–
3VA2	Icu	–	–	–	55 kA	85 kA	110 kA	150 kA
3VA20								
	25-100 A	–	–	–	38,1 kA	38,1 kA	38,1 kA	38,1 kA
3VA21								
	25-160 A	–	–	–	19,4 kA	19,4 kA	19,4 kA	19,4 kA
3VA22								
	160-250 A	–	–	–	16,7 kA	16,7 kA	16,7 kA	16,7 kA
3VA23								
	250-400 A	–	–	–	> 17kA	> 17kA	> 17kA	> 17kA
3VA24								
	400-630 A	–	–	–	> 17kA	> 17kA	> 17kA	> 17kA

Explanation:

Rated short-time withstand current or rated conditional short-circuit current $\leq 10\text{ kA r.m.s}$
 → No test required

Rated short-time withstand current or rated conditional short-circuit current $> 10\text{ kA r.m.s}$

OK No test required: $I_c \leq 17\text{kA}$

x kA If prospective short-circuit-current is limited to x kA,
 no test is required: $I_c \leq 17\text{kA}$

> 17 kA Test required: $I_c > 17\text{kA}$

Note:
 The table shown above is an extract of the characteristic curves of the 3VA molded case circuit breaker for a rated voltage of 415 V. For more information and other rated voltages:

- [please see characteristic curves under Industry Online Support](#)
- [or use the free tool SIMARIS curves.](#)