

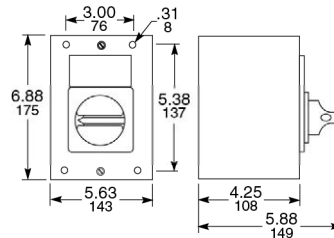


Vario Metallic Enclosed Switches

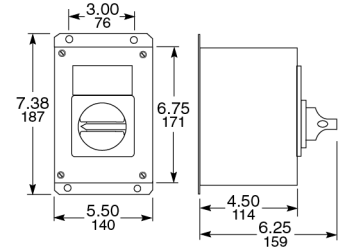
Vario switches meet UL508 requirements as both enclosed and open manual motor controllers. They are also marked "Suitable as Motor Disconnect" allowing installation on the load side of the motor branch circuit short-circuit and ground-fault protection. If motor branch circuit short-circuit and ground-fault protection is needed, use a GS1 or 9422 fusible switch or circuit breaker meeting NEC 430.52 requirements.

Table 8.10: Metallic Enclosed Switches [6] [7]

| Rating (A) | | Horsepower Ratings | | | NEMA Type 1 | NEMA Type 12 | NEMA Type 4/4X [7] |
|------------|-----|--------------------|-------|-------|-------------|--------------|--------------------|
| UL | IEC | 240 V | 480 V | 600 V | Catalog No. | Catalog No. | Catalog No. |
| 20 | 32 | 5 | 10 | 10 | 9421V1G30 | 9421V1A30 | 9421V1W30 |
| 25 | 40 | 5 | 10 | 15 | 9421V2G30 | 9421V2A30 | 9421V2W30 |



Class 9421 NEMA Type 1 V1G30, V2G30



Class 9421 NEMA Type 4, 4X, 12 V1W30, V2W30, V1A30, V2A30

Vario Manual Motor Control Switches

The V1 and V2 come in metallic enclosures (NEMA Type 1, 4, 4X, and 12). The NEMA 1 enclosure comes with conduit knockouts top and bottom. To factory install a VZ7 auxiliary contact in these metallic enclosures, add Form X11 to the end of the catalog number (for example, 9421V1G30X11). To factory install a VZ20 auxiliary contact in these enclosures, add Form X20 to the end of the catalog number (for example, 9421V1W30X20).



Manual Motor Control Switch

Table 8.11: Vario Manual Motor Control Switches, IEC

| Rating (A) IEC | kW Rating—3-Pole Switch Body | | | | | |
|-------------------|------------------------------|-------|-------|-------|-------|-------|
| | 230 V | 240 V | 400 V | 415 V | 500 V | 690 V |
| 12 | 3 | 3 | 4 | 4 | 5.5 | 7.5 |
| 20 | 4 | 4 | 5.5 | 5.5 | 7.5 | 11 |
| 25 | 5.5 | 5.5 | 7.5 | 7.5 | 11 | 15 |
| 32 | 5.5 | 5.5 | 11 | 11 | 11 | 15 |
| 40 | 7.5 | 7.5 | 15 | 15 | 18.5 | 15 |
| 63 | 15 | 15 | 22 | 22 | 30 | 22 |
| 80 | 18.5 | 18.5 | 30 | 30 | 37 | 30 |
| 125 | 22 | 22 | 37 | 37 | 45 | 37 |
| 175 | 30 | 30 | 45 | 45 | 55 | 45 |

Table 8.12: Vario Manual Motor Control Switches

| Rating (A) | Horsepower Rating | | | Shaft Size mm | 3-Pole Switch Body Type |
|------------|-------------------|-------|-------|------------------|----------------------------|
| | 240 V | 480 V | 600 V | | |
| 10 | 2 | 5 | 5 | 6 | V02 |
| 16 | 3 | 7.5 | 7.5 | 6 | V01 |
| 20 | 5 | 10 | 10 | 6 | V0 |
| 20 | 5 | 10 | 10 | 6 | V1 |
| 25 | 5 | 10 | 15 | 6 | V2 |
| 45 | 10 | 20 | 30 | 8 | V3 |
| 63 | 15 | 30 | 40 | 8 | V4 |
| 100 | 25 | 50 | 50 | 8 | V5 |
| 115 | 30 | 50 | 60 | 8 | V6 |

Table 8.13: Switch Body

| Rating (A) | | Shaft Size mm | 3-Pole Switch Body Type |
|------------|-----|------------------|----------------------------|
| UL | IEC | | |
| 10 | 12 | 6 | V02 |
| 16 | 20 | 6 | V01 |
| 20 | 25 | 6 | V0 |
| 20 | 32 | 6 | V1 |
| 25 | 40 | 6 | V2 |
| 45 | 63 | 8 | V3 |
| 63 | 80 | 8 | V4 |
| 100 | 125 | 8 | V5 |
| 115 | 175 | 8 | V6 |

NOTE: Refer to Table 8.10 and Table 8.12 for horsepower ratings.

[6] Assembled, includes switches mounted in enclosure with handle.

[7] For indoor use only. The NEMA Type 4/4X enclosure is made of #304 stainless steel with 3/4 in. T&B stainless steel hubs on the top and bottom.