



**Star point snubber with excellent attenuation to reduce dV/dt**

Datasheet 202405

**APPROVALS:**



**FINSTP.(068 - 100).M100**

**FEATURES**

- Reduces dV/dt star point -PE
- Protects motor windings, insulation and bearings
- Remote contact indicator
- Compact dimension due to the parallel installation

**BENEFITS**

- Very low power loss
- Over temperature protection
- Easy installation
- Only one model for unlimited HP motors

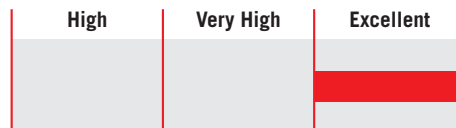
**MARKETS**

- Large motors
- Spindle motors
- Long cable applications with variable frequency drives or servo drives

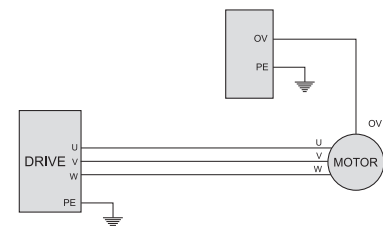
**ORDERING CODE**

|        |           |       |                     |                 |
|--------|-----------|-------|---------------------|-----------------|
| FINSTP | .068      | .M100 | .A                  | .F              |
| Model  | Impedance | -     | Fan nominal voltage | Flange mounting |
|        |           |       | A = 24Vdc           |                 |
|        |           |       | B = 24Vac           |                 |
|        |           |       | C = 110Vac          |                 |
|        |           |       | D = 220Vac          |                 |

**ATTENUATION INDICATOR**



**ELECTRIC DIAGRAM**



**TECHNICAL SPECIFICATIONS**

|                                  |                |
|----------------------------------|----------------|
| Nominal voltage                  | 0 - 600 Vac    |
| Frequency                        | 50 - 1000 Hz   |
| Rated current                    | Unlimited      |
| Carrier frequency (PWM)          | Not applicable |
| Max peak voltage phase to phase  | 3000V          |
| Max peak voltage phase to ground | 3500V          |
| Max power dissipation            | 250W           |
| Fan dissipation                  | 20W            |
| IP protection                    | IP20           |
| Climatic class                   | -40 to 85°C    |
| MTBF at 40°C                     | 250,000 Hours. |

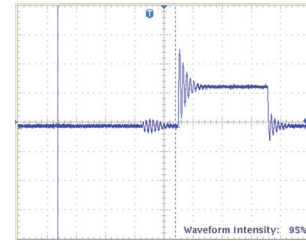
**ELECTRICAL CHARACTERISTICS**

| FINSTP        | Nominal Voltage AC (Vac) | Drive Carrier Frequency (kHz) | Power Loss at 100Hz (W) |
|---------------|--------------------------|-------------------------------|-------------------------|
| .068.M100.X   | 600                      | <5                            | 200                     |
| .100.M100.X   | 600                      | <5                            | 200                     |
| .068.M100.X.F | 600                      | <5                            | 200                     |
| .100.M100.X.F | 600                      | <5                            | 200                     |

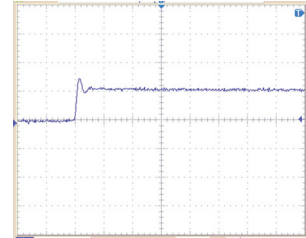
**CONNECTIONS**

| Solid Cable (mm <sup>2</sup> ) | LINE                              |  | Terminal Block Torque (Nm) | PE Torque (Nm) |
|--------------------------------|-----------------------------------|--|----------------------------|----------------|
|                                | Stranded Cable (mm <sup>2</sup> ) |  |                            |                |
| 10-50                          | 10-50                             |  | 4.0                        | 6              |
| 10-50                          | 10-50                             |  | 4.0                        | 6              |
| 10-50                          | 10-50                             |  | 4.0                        | 6              |
| 10-50                          | 10-50                             |  | 4.0                        | 6              |

**TYPICAL MEASUREMENT**



Typical measurement of dV/dt without snubber installed

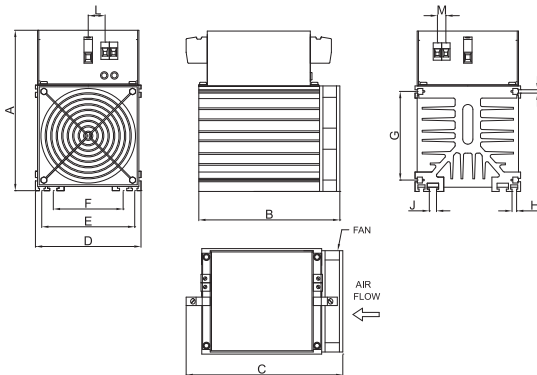


Typical measurement of dV/dt with snubber installed

**MECHANICAL DIMENSIONS mm**

| FINSTP        | A   | B   | C     | D   | E   | F   | G   | H   | I | J   | M  | L  | Weight Kg. | Case |
|---------------|-----|-----|-------|-----|-----|-----|-----|-----|---|-----|----|----|------------|------|
| .068.M100.X   | 190 | 167 | 189.5 | 125 | 110 | 83  | 105 | 5.4 | 4 | 8.5 | 10 | 20 | 4          | 1    |
| .100.M100.X   | 190 | 167 | 189.5 | 125 | 110 | 83  | 105 | 5.4 | 4 | 8.5 | 10 | 20 | 4          | 1    |
| .068.M100.X.F | 190 | 167 | 189.5 | 155 | 145 | 100 | -   | 6   | - | -   | 10 | 20 | 4          | 2    |
| .100.M100.X.F | 190 | 167 | 189.5 | 155 | 145 | 100 | -   | 6   | - | -   | 10 | 20 | 4          | 2    |

**CASE 1**



**CASE 2**

