



High frequency differential choke with excellent attenuation to reduce dV/dt

Datasheet 3/2019

APPROVALS:

FIN958.(012 - 110).M
FEATURES

- Rated current from 12 to 110A
- Protects against voltage spikes on the motor
- Low power loss up to 1 kHz frequency output

BENEFITS

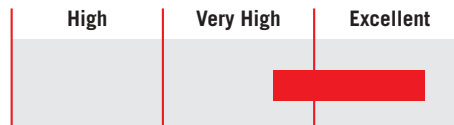
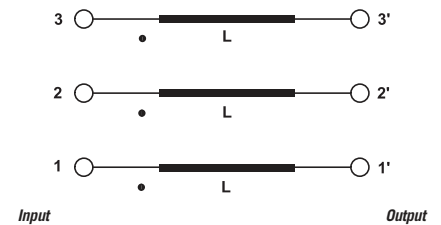
- 2 Year warranty
- Safety terminal block connectors

MARKETS

- High speed motors
- High speed pumps
- Woodworking machinery
- Spindle motors closed loop

ORDERING CODE

| | | |
|--------|-------------|--------------------|
| FIN958 | .012 | .M |
| Model | Current (A) | Connection |
| | | M = Terminal block |

ATTENUATION INDICATOR

ELECTRIC DIAGRAM

TECHNICAL SPECIFICATIONS

| | |
|--|--|
| Nominal voltage | 0 / 600 Vac |
| Output frequency | 0 - 1000 Hz |
| Rated current | 12 to 110A |
| Carrier frequency (PWM) | 0 - 16 kHz |
| Potential test voltage phase to phase | 2400 Vdc (2 sec.) |
| Potential test voltage phase to ground | 3200 Vdc (2 sec.) |
| IP Protection | IP20 |
| Saturation current | 4 x Rated current (Switch ON) 2 x In 10 seconds 1.5 In for 10 minutes 1.5 x Nominal current |
| Climatic class | -40 / +85° C |
| MTBF at 40°C | 250.000 Hrs |

ELECTRICAL CHARACTERISTICS

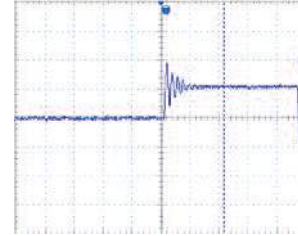
| FIN958 | Rated Current 40°C | Rated Current 50°C | Power Loss (W) |
|--------|--------------------|--------------------|----------------|
| .012.M | 12 | 10 | 3.4 |
| .020.M | 20 | 18 | 4.4 |
| .025.M | 25 | 23 | 4.8 |
| .032.M | 32 | 28 | 5.3 |
| .042.M | 42 | 38 | 7 |
| .060.M | 60 | 54 | 11 |
| .075.M | 75 | 67 | 12 |
| .090.M | 90 | 81 | 12.7 |
| .110.M | 110 | 100 | 13 |

CONNECTIONS

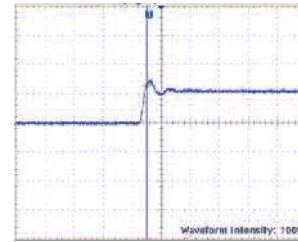
| LINE | | | PE | |
|--------------------------------|-----------------------------------|----------------------|--------|-------------|
| Solid Cable (mm ²) | Stranded Cable (mm ²) | Terminal Torque (Nm) | d (mm) | Torque (Nm) |
| 0.2 - 10 | 0.2 - 6 | 1.2 | M6 | 1.2 |
| 0.2 - 10 | 0.2 - 6 | 1.2 | M6 | 1.2 |
| 0.2 - 10 | 0.2 - 6 | 1.2 | M6 | 1.2 |
| 0.2 - 10 | 0.2 - 6 | 1.2 | M6 | 1.2 |
| 0.2 - 10 | 0.2 - 6 | 1.2 | M6 | 1.2 |
| 6 - 35 | 4 - 25 | 4.5 | M6 | 6 |
| 6 - 35 | 4 - 25 | 4.5 | M6 | 6 |
| 10 - 50 | 10 - 50 | 4.0 | M10 | 6 |
| 35 - 95 | 35 - 95 | 20.0 | M10 | 6 |

TYPICAL MEASUREMENT

Without FIN958



With FIN958

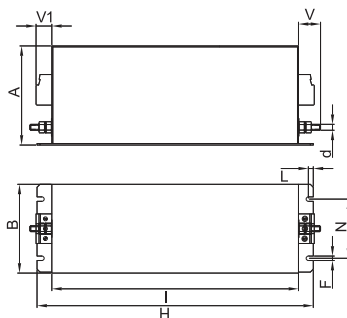


Example of measurement in a typical application using a servo drive

MECHANICAL DIMENSIONS mm

| FIN958 | A | B | V | V1 | F | H | I | L | N | d | Weight Kg. | Case |
|--------|-----|-----|----|----|-----|-----|-----|-----|-----|-----|------------|------|
| .012.M | 100 | 90 | 22 | 16 | 5.4 | 250 | 220 | 7.5 | 60 | M6 | 1.9 | 1 |
| .020.M | 100 | 90 | 22 | 16 | 5.4 | 250 | 220 | 7.5 | 60 | M6 | 1.9 | 1 |
| .025.M | 100 | 90 | 22 | 16 | 5.4 | 250 | 220 | 7.5 | 60 | M6 | 1.9 | 1 |
| .032.M | 100 | 90 | 22 | 16 | 5.4 | 250 | 220 | 7.5 | 60 | M6 | 2.0 | 1 |
| .042.M | 100 | 90 | 22 | 35 | 5.4 | 250 | 220 | 7.5 | 60 | M6 | 2.5 | 2 |
| .060.M | 135 | 85 | 22 | 39 | 6.5 | 270 | 240 | 7.5 | 60 | M6 | 3.8 | 3 |
| .075.M | 135 | 85 | 22 | 39 | 6.5 | 270 | 240 | 7.5 | 60 | M6 | 4.5 | 3 |
| .090.M | 155 | 90 | 24 | 43 | 6.5 | 270 | 240 | 7.5 | 65 | M10 | 6.0 | 3 |
| .110.M | 170 | 125 | 26 | 51 | 6.5 | 380 | 350 | 7.5 | 102 | M10 | 8.5 | 4 |

CASE 1, 2, 3, 4



ASSEMBLY CONNECTION "M"

