

NAFSA - VM/ND SERIES

VM20/ND
 VM20/ND 24Vdc

- Magnetic holding under no power
- Class Y winding (90°C)
- Up to 40% duty cycle
- Up to 2254N force
- Customer specific version available



PRODUCT DESCRIPTION

The VM/ND series holds without power due to a permanent magnet.

When the voltage is applied, the holding force is removed.

Please ensure safe operating conditions are met when using this type of holding electromagnet.

TECHNICAL DATA

| | |
|---|----------|
| Duty cycle | 20 % |
| Insulation class | Y (90°C) |
| IP class | IP65 |
| Minimum impulse time for voltage to release | 24 ms |
| Power | 10 W |
| Total weight | 40 g |
| Voltage dc max | 24 V |
| Voltage type | DC |

| TYPE | P (W) | ED (%) | Minimum pulse (ms) | Resting time (ms) | E (mm) | Air gap (mm) Δ | | | Magnetic force Fm (N) |
|----------|-------|--------|--------------------|-------------------|--------|-----------------------|------|------|-----------------------|
| | | | | | | 0 | 0,2 | 0,5 | |
| VM20/ND | 10 | 20 | 24 | 180 | 1 | 22 | 7 | 1,7 | |
| | | | | | 3 | 39 | 7 | 1,7 | |
| | | | | | 10 | 39 | 7 | 1,7 | |
| VM30/ND | 25 | 20 | 110 | 825 | 1 | 46 | 34 | 22 | |
| | | | | | 3 | 181 | 74 | 22 | |
| | | | | | 10 | 181 | 74 | 22 | |
| VM40/ND | 42 | 15 | 75 | 743 | 1 | 51 | 36 | 23 | |
| | | | | | 3 | 205 | 89 | 38 | |
| | | | | | 10 | 270 | 89 | 38 | |
| VM50/ND | 48 | 15 | 120 | 1188 | 1 | 60 | 41 | 34 | |
| | | | | | 3 | 304 | 200 | 95 | |
| | | | | | 10 | 607 | 225 | 110 | |
| VM65/ND | 80 | 15 | 225 | 2228 | 1 | 70 | 50 | 40 | |
| | | | | | 3 | 374 | 340 | 260 | |
| | | | | | 10 | 1220 | 750 | 400 | |
| VM100/ND | 75 | 25 | 150 | 1500 | 1 | 83 | 61 | 49 | |
| | | | | | 3 | 421 | 365 | 338 | |
| | | | | | 10 | 2205 | 1254 | 686 | |
| VM150/ND | 77 | 40 | 285 | 1070 | 1 | 78 | 46 | 32 | |
| | | | | | 3 | 615 | 475 | 401 | |
| | | | | | 10 | 2254 | 1490 | 1100 | |



| TYPE | ØA (±0,3) | Ø | C (±0,1) | D | E | Weight (g) |
|-----------|-----------|------|----------|----|------|------------|
| VM 20/ND | 25 | M-3 | 25 | 5 | 28 | 0,84 |
| VM 30/ND | 30 | M-4 | 32,5 | 6 | 35,2 | 0,13 |
| VM 40/ND | 40 | M-5 | 41,7 | 8 | 42,7 | 0,28 |
| VM 50/ND | 50 | M-5 | 42,8 | 6 | 52,5 | 0,45 |
| VM 65/ND | 65 | M-8 | 45,5 | 8 | 67 | 0,74 |
| VM 100/ND | 100 | M-10 | 67 | 10 | 102 | 3,00 |
| VM 150/ND | 150 | M-16 | 65 | 15 | 152 | 7,10 |

