



CDVI

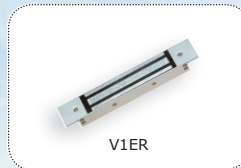
EN ENGLISH

V1ER
V3E
V3ER
V3E35R
V4E
V4ER
V5E

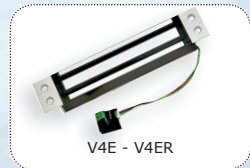
Mortice Electromagnets



V3E35R



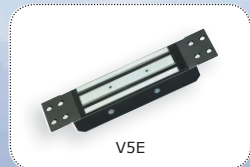
V1ER



V4E - V4ER



V3E - V3ER



V5E

The installer's choice
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V1ER - V3E - V3ER - V3E35R - V4E - V4ER - V5E

Mortice Electromagnetic locks

Thank you for buying our products and for the confidence you placed in our company.

1] PRODUCT PRESENTATION

- **Mortice.**
- **Monitored*.**
- **Holding force:** 180, 300, 400 or 500kg*.
- **Side load.**
- **High corrosion resistance.**
- **Delivered with armature plate.**
- **No mechanical wear.**
- **Ease of installation.**
- **Recommended for indoor use.**
- **Fail safe (Door unlocked when power off).**
- **No residual magnetism.**
- **Built-in varistor:** Electronic protection to eliminate back EMF.

- Electromagnetic lock dimensions (L x W x D):

- V1ER = 221 x 34 x 21mm.
- V3E series = 228 x 38 x 27mm,
- V3E35R = 228 x 35.5 x 24.5mm,
- V4E series = 229 x 43 x 27mm,
- V5E = 287 x 64 x 40mm.

- Armature dimensions (l x w x d):

- 180kg = 130 x 32 x 9mm,
- 300kg = 185 x 38 x 11mm,
- 400kg = 185 x 45 x 12mm,
- 500kg = 185 x 60 x 12mm.

- Silent operation.
- Power supply: 12/24V dc.
- Power absorption:
 - 12 V DC = 500mA,
 - 24 V DC = 250mA.



References	Holding force	Monitored
V1ER	180kg	✓
V3E	300kg	-
V3ER	300kg	✓
V3E35R	300kg	✓
V4E	400kg	-
V4ER	400kg	✓
V5E	500kg	-



WEEE



EC certification



IP42



RoHS

2] REMINDERS AND RECOMMENDATIONS

The function of an electromagnetic lock is to ensure the locking of an access point. This document is a guide of installation which will allow you to secure the installation according to the characteristics of the product, the site and the environmental requirements.

APPROVAL RELATIVE TO EMERGENCY EXITS

In the case of an installation of electromagnetic lock on emergency exits, it is imperative to make sure that these exit points will be automatically free in case of fire alarm, to open in the event of a fire alarm to allow evacuation of the premises. The electromagnetic lock installed on emergency exits must be in accordance with the fire approval department (Ex: In France = NF 61-937).

For more information, contact CDVI, the local fire officer or the safety officer responsible for the building..

** Depending on the version.*

V1ER - V3E - V3ER - V3E35R - V4E - V4ER - V5E

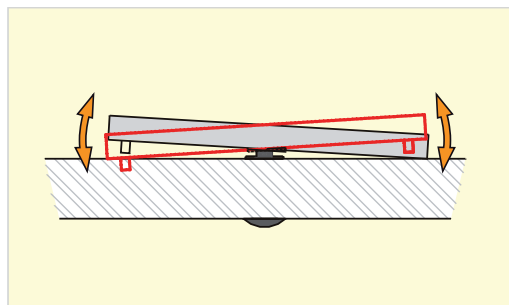
Mortice Electromagnetic locks

POWER SUPPLY

An electromagnetic lock always operates in DC current, a very low safety voltage. The Diax® electromagnetic lock is recommended for use with power supplies manufactured by CDVI, however, other power supplies may be used on condition that they are of equivalent quality and characteristics rectified, filtered, regulated and protected by fuse in primary and secondary sectors.

MOUNTING RECOMMENDATIONS

- Define the level of security of the access.
- Determine the maximum strength of holding force to this level of security.
- Select the Diax® electromagnetic lock according to the environment, the inside, the outside, the climatic constraints, (For example: stainless steel dedicated to an outside use).
- Always install the electromagnetic lock on the secure side of the place to be secured.
- Indeed make sure that the frame and opening, receiving or supporting the electromagnetic lock, armature plate and their accessories, are solid and resistant to damage or wear over a period of time.
- Consider any bracketry required for the assembly according to the type of support receiving the electromagnetic lock and armature plate.
- Define the passage of cables to ensure the protection against the vandalism and the environmental requirements (in particular through flexible hoses of door, glands, gutters, cross cables, plastic tubes).



Armature plate

- It is vital to fix the electromagnetic lock and armature plate solidly on their supports.
- Make sure that the magnet and the armature meet evenly over their entire mating surfaces.
- The Armature plate must be able to pivot slightly about its center mounting screw to compensate for any door misalignment.

MAINTENANCE

The Electro magnet and armature plate have a specific treatment which strengthens the protection against wear and corrosion. These products do not require high maintenance. Nevertheless to ensure optimum performance, it is recommended to clean regularly the surfaces in contact of the electro magnet and armature plate with a cloth and non abrasive products. If traces of corrosion appear, it is recommended to clean and oil the contact surfaces. Check and tighten regularly all the fixings of the Electro magnet and ensure that while the armature is able to pivot on its mounting, the fixing bolt is not liable to loosen (we recommend thread-lock for all fixing bolts).














3] PACKAGE CONTENTS

ELECTROMAGNETIC LOCK V1ER

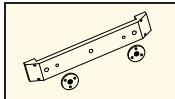
Mortice magnetic lock	Armature plate	Roll pin 5x16	Rubber washer 10x6x4	Key 3mm	Guide piece	Cap nut	Installation manual	M5x20 screw	M5x8 screw	Steel washer	Joggle bracket
1	1	2	1	1	1	1	1	1	8	2	2

V1ER - V3E - V3ER - V3E35R - V4E - V4ER - V5E
 Mortice Electromagnetic locks

ELECTROMAGNETIC LOCK V3E - V3ER - V3E35R - V4E - V4ER - V5E

						
Mortice magnetic lock	Armature plate	Roll pin 5x16	Steel washer	Joggle bracket (excepted for the V5E)	M5x8 screw	Key 5mm
1	1	2	2	2	8	1
						
M8x35 screw	M8x25 screw	Guide piece	Cap nut	Rubber washer 15x9x4	Installation manual	
1	1	1	1	1	1	

4] OPTIONAL ACCESSORIES



References	AMCCHANFR16 AMCCHANFR20
Description	Armature mounting plate

5] ELECTRICAL CONNECTIONS

TERMINAL BLOCK	CORRESPONDENCE	V3E - V4E V5E	V1ER - V3ER V3E35R - V4ER
+	12 or 24V dc	■	■
-	- 0 V	■	■
N.C	NC (Normally closed)	-	■
COM	COM	-	■
N.O	NO (Normally open)	-	■

IMPORTANT NOTE



12V dc factory setup

Check the jumper position before connecting the lock to the input current. A wrong position could damage the lock. This type of damage is not covered by the warranty.

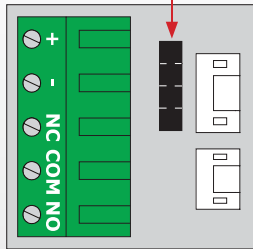
The NO/NC signal only switches when the door is closed with the power to it on.

V1ER - V3E - V3ER - V3E35R - V4E - V4ER - V5E

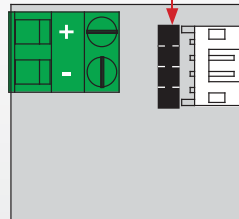
Mortice Electromagnetic locks

WITH BUILT-IN PCB BOARD

DIRECT CONNECTION

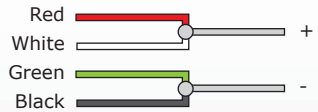


V1ER - V3ER
V3E35R - V4ER

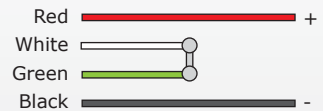


V3E - V4E - V5E

12V DC



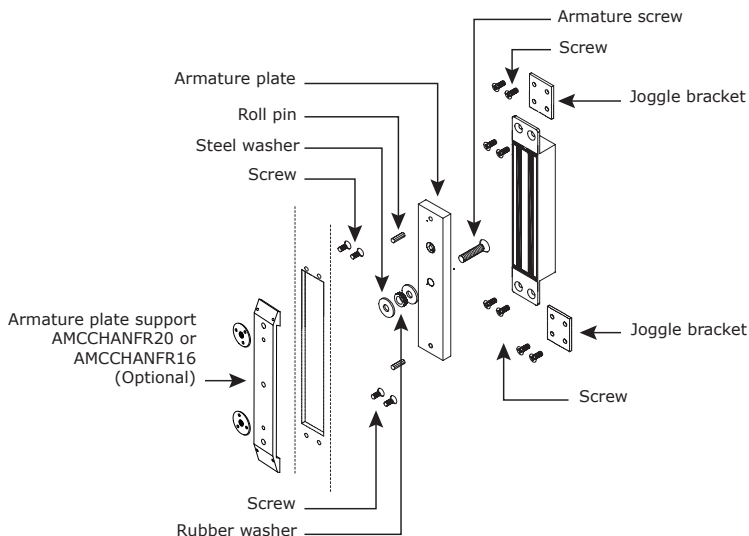
24V DC



CONTACT



6] INSTALLATION (WITH AMCCHANFR20 OR AMCCHANFR16)



Reference : G0301EN0458V01
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All the information contained within this document (pictures, drawing, features, specifications and dimensions) could be perceptibly different and can be changed without prior notice.

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