



Electromagnetic  
Door Holders

**DORMA EM**



**DORMA EM Series electromagnetic door holders with dual voltage capability and an adjustable catch plate provide versatility for varying applications. Add-on catch plate extensions further enhance its flexibility.**

The DORMA EM Series door holders are composed of a door mounted catch plate and a floor- or wall-mounted electromagnet. This series serves as an economical package for use in conjunction with DORMA door closers whenever controlled release and closing of doors is necessary for safety or convenience such as in hotels, hospitals, and nursing homes.

The EM Series magnets offer superior reliability with built-in protection and low residual magnetism so they release easily even in applications meeting ADA requirements with minimal spring force door closers. Brackets are not required for recessed, flush, or surface mounting. The catch plate on the door features a ball-shaped pivot arm for adjustability to further ensure perfect alignment. Optional extension rods are available to accommodate greater distances between the door and wall.

**Technical Details:**

- Dual voltage capability reduces stocking requirements.
- Low current draw allows savings on power supplies and backup batteries.
- Optional extension rods fit on standard catch plate to accommodate deeper door to wall conditions.
- Low residual magnetism allows easy release of door.
- All electrical values +10% to -15%.
- Floor- and wall-mounted styles.
- Can be manually pulled from hold open position.
- Silent operation.
- Holding force 15–25 lb nominal.

**Certification:**

The DORMA EM Series are listed by UL and CUL under their continuing reinspection programs. M.E.A. (New York City) and California State Fire Marshall (CSFM) approved. The EM Series magnets are certified to conform to the requirements of ANSI/BHMA A156.15 Grade 1.

**Specifications:**

All electromagnetic door holders shall be DORMA EM Series with wall- or floor-mounted magnets and door-mounted catch plates. Available as surface, flush, or floor mount. Floor-mounted magnets shall be provided for both single and double door applications. Each magnet to have the following voltage capability: 24 V AC or DC and 120 VAC. Specify type of mount.

**Optional Specifications:**

Magnet to have 1-1/2" catch plate extension. Specify ER-1.5.  
Magnet to have 2-1/2" catch plate extension. Specify ER-2.5.  
Magnet to have adjustable catch plate extension. Specify either ER-7 or ER-12.

**Finishes**

**Powder Coated Finishes:**

Aluminum: 689\*.  
Bronze: 695 (Dark Duranodic).

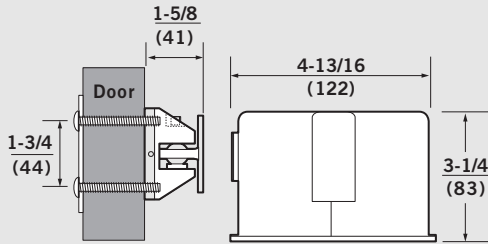
**Painted Finish:**

696: Gold (Satin).

\*The EM-509 is furnished with a 630 faceplate when ordered in 689 finish.

**Floor-Mount (Single Door)**

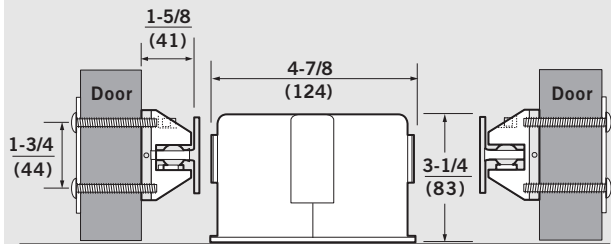
Model	Volts	Amps
EM501 24120	24 V AC or DC, 120 VAC	.015



Overall Projection: 6-7/16" (164)

**Floor-Mount (Double Door)**

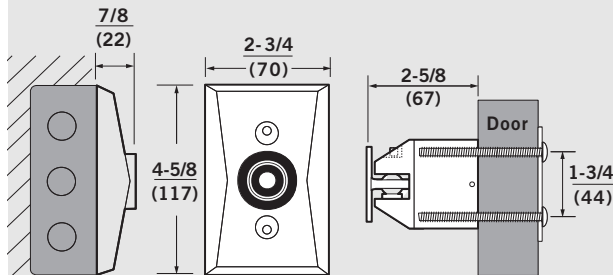
Model	Volts	Amps
EM502 24120	24 V AC or DC, 120 VAC	.030



Overall Projection: 8-1/8" (206)

**Semi-Flush Wall-Mount (Long Catch Plate)**

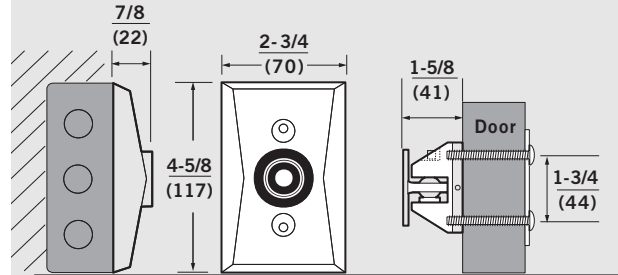
Model	Volts	Amps
EM504 24120	24 V AC or DC, 120 VAC	.015



Overall Projection: 3-1/2" (89)

**Semi-Flush Wall-Mount (Short Catch Plate)**

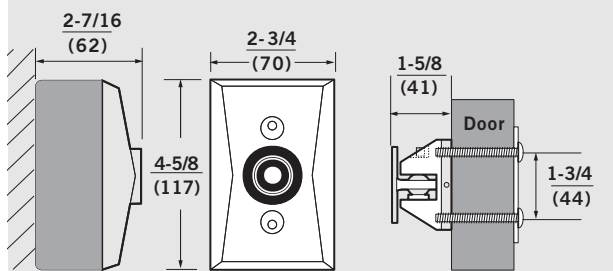
Model	Volts	Amps
EM505 24120	24 V AC or DC, 120 VAC	.015



Overall Projection: 2-1/2" (64)

**Surface Wall-Mount**

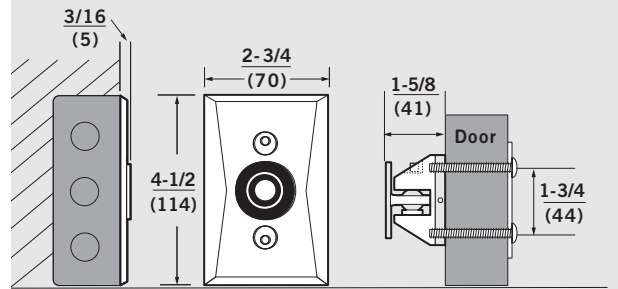
Model	Volts	Amps
EM508 24120	24 V AC or DC, 120 VAC	.015



Overall Projection: 4-1/16" (103)

**Completely Flush Wall-Mount (Low Projection)**

Model	Volts	Amps
EM509 24120	24 V AC or DC, 120 VAC	.015



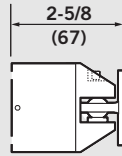
Overall Projection: 1-13/16" (46)

## Accessories

**CP SHORT** - Complete catch plate 1-5/8" projection.



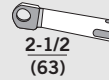
**CP LONG** - Complete catch plate 2-5/8" projection.



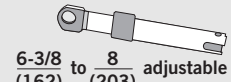
**ER-1.5** - Catch plate extension



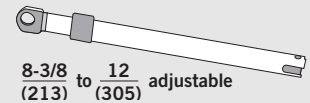
**ER-2.5** - Catch plate extension



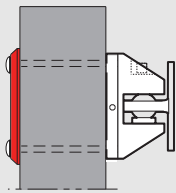
**ER-7** - Catch plate extension



**ER-12** - Catch plate extension



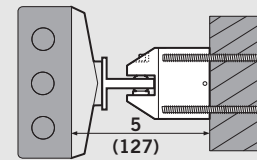
## DP PACK



DP PACK includes door plate and door plate accessories.

## Example

EM504 24120 illustrated with ER-1.5 catch plate extension. The ER-1.5 increases total magnet projection to 5". The ER-2.5 increases the total projection to 6". Extensions can be used with all models.



## How to Order

		Example
Magnet	Floor Mount (single door) Floor Mount (double door) Semi Flush Wall (long cp) Semi Flush Wall (short cp) Surface Wall Mount Completely Flush Wall	EM501 24120 EM502 24120 EM504 24120 EM505 24120 EM508 24120 EM509 24120
Accessories	Specify the accessory	EM509 24120 x ER-7 689
Finish	689, 695 or 696 (see page 2 for details)	EM508 24120 695

## Accessories

**ER-1.5** - 1-1/2" extension  
**ER-2.5** - 2-1/2" inch extension  
**ER-7** - 6-3/8" to 8" adjustable extension  
**ER-12** - 8-3/8" to 12" adjustable extension  
**DP PACK** - Doorplate and doorplate fasteners  
**CP LONG** - Catch plate 2-5/8" projection  
**CP SHORT** - Catch plate 1-5/8" projection

## Comparison Chart

DORMA	RIXSON	NORTON	YALE	SARGENT	CORBIN/RUSSWIN	LCN	DOROMATIC	ABH	OLD DORMA
Floor Mount (Single Door) EM501 24120	980	R6931	R5931	1516	DH57901 DH57941	SEM 7820	62150	2610 2620	EM-FM24120
Floor Mount (Double Door) EM502 24120	981	R6932	R5932	1517	N/A	N/A	N/A	2710 2720	EM-DFM24120
Semi Flush Wall (Long Catch) EM504 24120	998	R6933	R5933	N/A	DH57904 DH57944	SEM 7850	62110	2110 2120	EM-F24120
Semi Flush Wall (Short Catch) EM505 24120	997	R6934	R5934	1561	DH57903 DH57943	SEM 7840	N/A	2310 2320	N/A
Surface Wall Mount (Short Catch) EM508 24120	996	R6935	R5935	1560	N/A	SEM 7830	62120	2310 2320	EM-S24120
Completely Flush Wall (Low Projection) EM509 24120	990	R6936	R5936	1504	N/A	N/A	N/A	2410 2420	EM-R24120

Since no products are exactly alike, the data on this chart represents the judgement of which products are most similar. Information has been obtained from trade sources. It is not guaranteed nor represented that any specific product exactly equals any other product.

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