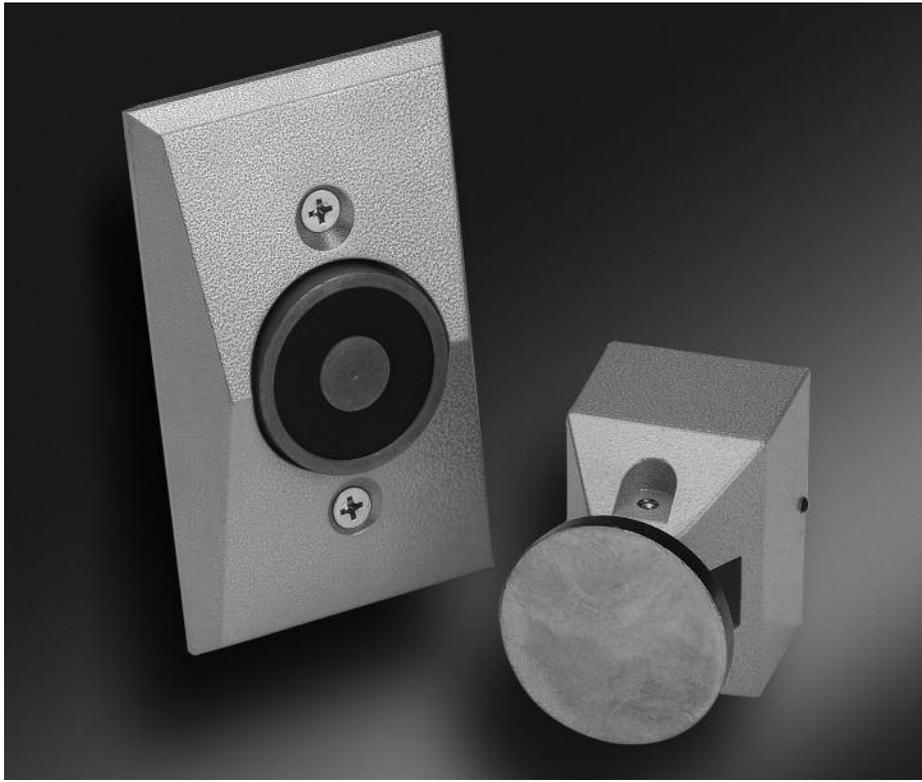




Electromagnetic
Door Holders

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. 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 VAC 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).

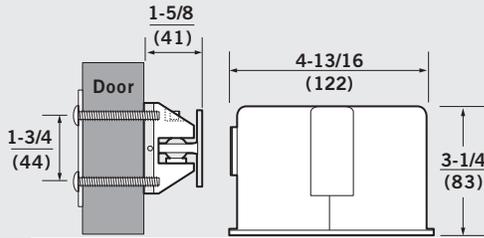
Painted Finish:

696: Gold (Satin).

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

Floor-Mount (Single Door)

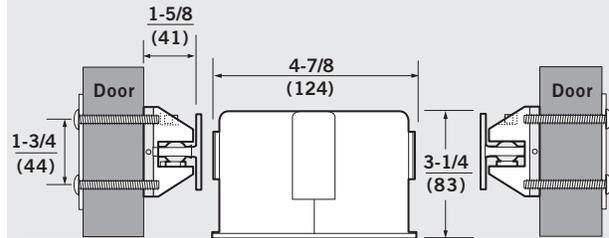
Model	Volts	Amps
EM501 24120	24 V AC or DC, 120 VAC	.015



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

Floor-Mount (Double Door)

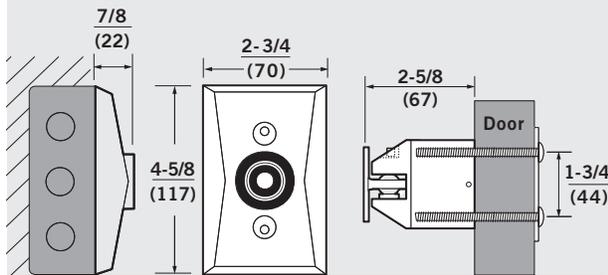
Model	Volts	Amps
EM502 24120	24 V AC or DC, 120 VAC	.030



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

Semi-Flush Wall-Mount (Long Catch Plate)

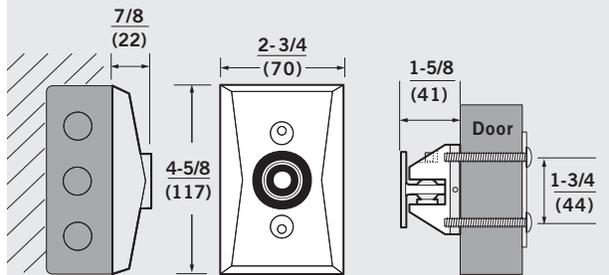
Model	Volts	Amps
EM504 24120	24 V AC or DC, 120 VAC	.015



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

Semi-Flush Wall-Mount (Short Catch Plate)

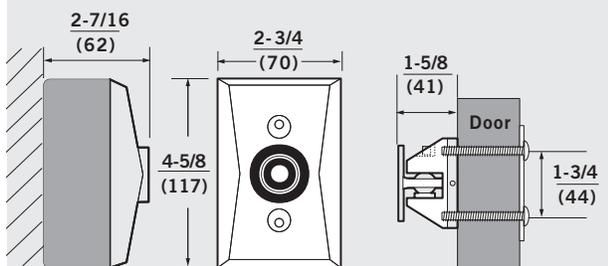
Model	Volts	Amps
EM505 24120	24 V AC or DC, 120 VAC	.015



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

Surface Wall-Mount

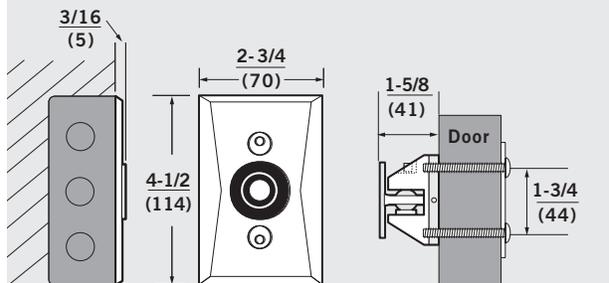
Model	Volts	Amps
EM508 24120	24 V AC or DC, 120 VAC	.015



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)

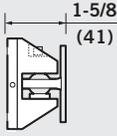
Accessories

ER-1.5 - Catch plate extension



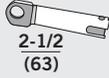
1-1/2
(38)

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



1-5/8
(41)

ER-2.5 - Catch plate extension



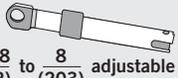
2-1/2
(63)

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



2-5/8
(67)

ER-7 - Catch plate extension



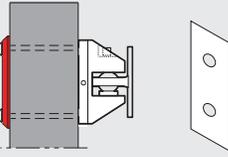
6-3/8 to 8
(162) (203) adjustable

ER-12 - Catch plate extension



8-3/8 to 12
(213) (305) adjustable

DP PACK - Includes door plate and door plate accessories.



How to Order

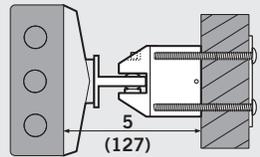
Application	Options (Packaged Separately)	Finish
Completely Flush — 509	2-5/8" Catch Plate — CP LONG	696 — Satin Brass Painted 695 — Dark Duranodic Bronze Powder Coated 689 — Aluminum Powder Coated
Surface — 508	2" Catch Plate — CP SHORT	
Semi-Flush, Short Catch — 505	8-3/8" to 12" Adjustable Extension — ER 12	
Semi-Flush, Long Catch — 504	6-3/8" to 8" Adjustable Extension — ER 7	
Double Floor — 502	2" Extension — ER 2.0	
Single Floor — 501	1-1/2" Extension — ER 1.5	

EM 504 24120 _____ 689

EM 24120 — Dual Voltage 24 VDC, 120 VAC

Series Electrical Specification

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.

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

NOTE: 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.

DORMA Americas
www.dorma-usa.com

DORMA Architectural Hardware
DORMA Drive, Drawer AC
Reamstown, PA 17567-0411
Telephone: (800) 523-8483
Facsimile: (800) 274-9724
E-mail: archdhw@dorma-usa.com

DORMA Canada
1680 Courtney Park Drive, Unit 13
Mississauga, Ontario L5T 1R4
Telephone: (800) 387-4938
Facsimile: (905) 670-5850
E-mail: sales@dormacanada.com

DORMA Mexico, S. de R.L. de C.V.
Astrónomos 28, Col. Escandón
México, D.F. 11800
Del. Miguel Hidalgo
Telephone: (52+55) 5272-6937
Facsimile: (52+55) 5272-6948
E-mail: operacion@dorma.com.mx