



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 U.L. and C.U.L. 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 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).

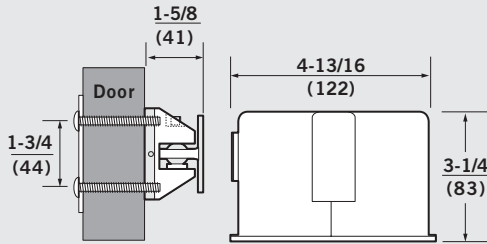
Painted Finish:

696: Gold (Satin).

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

Floor-Mount (Single Door)

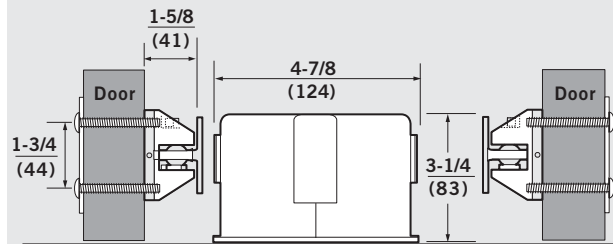
| Model | Volts | Amps |
|-------------|------------------------|------|
| EM501 24120 | 24 V AC or DC, 120 VAC | .015 |



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

Floor-Mount (Double Door)

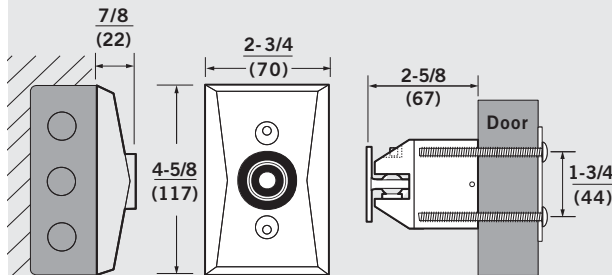
| Model | Volts | Amps |
|-------------|------------------------|------|
| EM502 24120 | 24 V AC or DC, 120 VAC | .030 |



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

Semi-Flush Wall-Mount (Long Catch Plate)

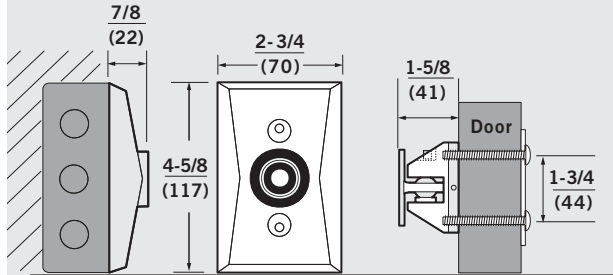
| Model | Volts | Amps |
|-------------|------------------------|------|
| EM504 24120 | 24 V AC or DC, 120 VAC | .015 |



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

Semi-Flush Wall-Mount (Short Catch Plate)

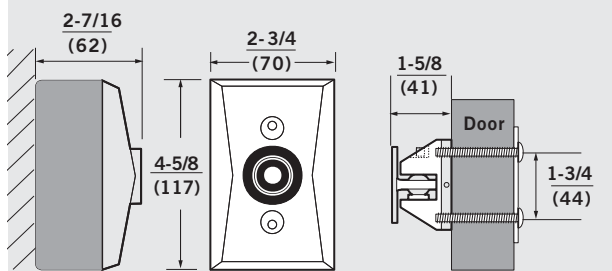
| Model | Volts | Amps |
|-------------|------------------------|------|
| EM505 24120 | 24 V AC or DC, 120 VAC | .015 |



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

Surface Wall-Mount

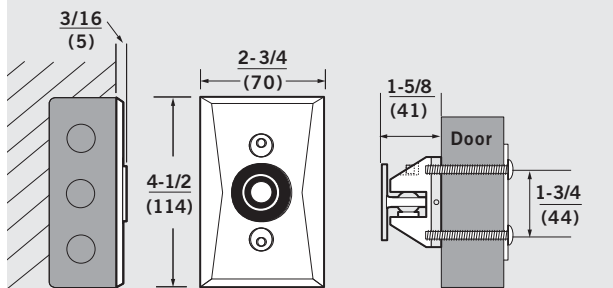
| Model | Volts | Amps |
|-------------|------------------------|------|
| EM508 24120 | 24 V AC or DC, 120 VAC | .015 |



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 |



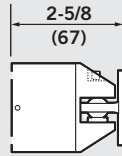
Overall Projection: 1-13/16" (46)

Accessories

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



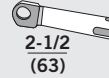
CP LONG - Complete catch plate 2-5/8" projection.



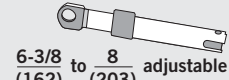
ER-1.5 - Catch plate extension



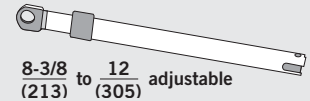
ER-2.5 - Catch plate extension



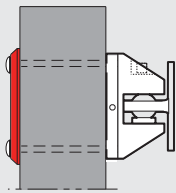
ER-7 - Catch plate extension



ER-12 - Catch plate extension



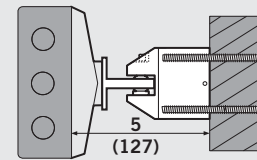
DP PACK



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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 E-mail: archdw@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

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 11800, Mexico, D.F.
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