

## EMERSON CLIMATE TECHNOLOGIES-Coils for Solenoid Valves

### Features

- Compact designs
- Coil windings are insulated to provide shock and vibration protection
- ASC2 is designed to provide weather protection
- Interchangeable housings

### Voltage Options

- 24V 50/60 Hz
- 120V 50/60 Hz (standard)
- 208-220/208-240V 50/60 Hz
- 480V 50/60 Hz
- 120-240V 50/60 Hz
- 12V D.C. (MM Series recommended)
- 24V D.C. (MM Series recommended)

ASC2 – DIN



Requires ASC2 female connector (PCN 059261).

MMG – Special DC



AMC - 1/2" Conduit



AMG - Junction Box



AMS - Open Frame



### Nomenclature

Coil Code		
A	M	G
<b>Series</b>	<b>Insulation</b>	<b>Enclosure</b>
A = 12 Watt B = 15 Watt C = 18 Watt D = 7 Watt M = 4 Watt	B or G = Class B M = Class F H = Class H	C = Conduit Connection E = Explosion Proof F = Open Frame Leads G = Junction Box L = Grommet 18" Leads S = Spade Connection

### MAGMAX Coil (Type MM): For Use On DC Applications Only

Voltage	Amperes Holding	Watts Holding
12VDC	0.4	4
24VDC	0.4	4

### Solenoid Coil Prefix Selection Table

1) Select Prefix 2) Select Voltage 3) Select PCN

Valve Type	J-Box	Conduit	Leads	Spades	Molded-DIN With Connector
50RB	-	-	SML*	-	-
100RB	AMG	AMC	AMF	AMS	ASC2
200RB	AMG	AMC	AMF	AMS	ASC2
222CB (Steam)	AHG	AHC	-	-	-
401	AMG	AMC	AMF	AMS	ASC2
500RB	DMG	-	DMF	DMS	-
540RA	-	-	-	DMS	ASC2
222CB (Water)	AMG	AMC	AMF	AMS	ASC2
Special DC Application	MMG	-	MMF	-	-

\* SML is OEM - RMF is Wholesale replacement

Note - All coils NEMA1 except ASC2 NEMA2

### AM/EM Coil: 240CD, 214CA, 211CA, 222CB, 210CA

Nominal Voltage and Frequency	Applied Voltage and Frequency	121		201		211		231		241	
		Inrush	Holding	Inrush	Holding	Inrush	Holding	Inrush	Holding	Inrush	Holding
24/60	24/60	1.23	0.61	1.17	0.61	0.92	0.61	1.00	0.74	0.92	0.61
120/60	120/60	0.23	0.14	0.22	0.14	0.17	0.14	0.19	0.16	0.17	0.14
240/60	240/60	0.13	0.08	0.12	0.08	0.10	0.08	0.11	0.08	0.10	0.08
480/60	480/60	0.06	0.04	0.05	0.04	0.05	0.04	0.05	0.04	0.05	0.04

See the MM (MAGMAX) Series Coil for DC Applications

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### AM Coil:702RA

Nominal Voltage and Frequency	Applied Voltage and Frequency	Amperes		VA Holding	Watts Max.	Coil Insulation
		Inrush	Holding			
24-50/60	24/50	1.70	1.00	24	17/12	Class F Molded
24-50/60	24/60	1.41	0.64	15		
120-50/60	120/50	0.38	0.24	29		
120-50/60	120/60	0.32	0.16	19		
208-220/50 208-240/60	208/50	0.17	0.10	21		
208-220/50 208-240/60	208/60	0.15	0.06	13		
208-220/50 208-240/60	220/50	0.20	0.14	33		
208-220/50 208-240/60	240/60	0.22	0.09	22		
480-50/60	480/50	0.10	0.07	33		
480-50/60	480/60	0.09	0.04	22		

See the MM (MAGMAX) Series Coil for DC Applications

### AM Coil:100RB, 240RA, 710/713RA, EPRB(S)

Nominal Voltage and Frequency	Applied Voltage and Frequency	Amperes		VA Holding	Watts Max.	Coil Insulation
		Inrush	Holding			
24-50/60	24/50	1.20	.96	23	17/12	Class F Molded
24-50/60	24/60	1.0	.74	18		
120-50/60	120/50	.25	.21	25		
120-50/60	120/60	.19	.16	19		
208-220/50 208-240/60	208/50	.14	.08	17		
208-220/50 208-240/60	208/60	.12	.06	12		
208-220/50 208-240/60	220/50	.16	.10	24		
208-220/50 208-240/60	240/60	.13	.08	19		
480-50/60	480/50	.06	.05	24		
480-50/60	480/60	.05	.04	19		

See the MM (MAGMAX) Series Coil for DC Applications

### AM Coil:200RB

Nominal Voltage and Frequency	Applied Voltage and Frequency	Amperes		VA Holding	Watts Max.	Coil Insulation
		Inrush	Holding			
24-50/60	24/50	2.00	.96	23	17/12	Class F Molded
24-50/60	24/60	1.6	.74	18		
120-50/60	120/50	.45	.21	25		
120-50/60	120/60	.36	.16	19		
208-220/50 208-240/60	208/50	.19	.08	17		
208-220/50 208-240/60	208/60	.15	.06	12		
208-220/50 208-240/60	220/50	.24	.10	24		
208-220/50 208-240/60	240/60	.19	.08	19		
480-50/60	480/50	.11	.05	24		
480-50/60	480/60	.09	.04	19		

See the MM (MAGMAX) Series Coil for DC Applications

# Refrigeration

Compressors, Chillers, Condensers  
 Motors  
 Electrical  
 Heating Components  
 Indoor Air Quality  
 Thermostats  
 Oils & Chemicals  
 Accessories, Supplies & Commodities  
 Tools & Instruments  
 Refrigeration

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### ASC2 Coil:200RB, 540RA

Nominal Voltage and Frequency	Applied Voltage and Frequency	Amperes		VA Holding	Watts Max.	Coil Insulation
		Inrush	Holding			
24-50/60	24/50	2.18	1.07	26	12	Class F Molded
24-50/60	24/60	1.90	.81	19		
120-50/60	120/50	.43	.21	25		
120-50/60	120/60	.38	.16	19		
240-50/60	240/50	.24	.12	30		
240-50/60	240/60	.21	.09	22		

### DM Coil:500RB

Nominal Voltage and Frequency	Applied Voltage and Frequency	Amperes		VA Holding	Watts Max.	Coil Insulation
		Inrush	Holding			
24-50/60	24/50	1.80	.71	17	10	Class F Molded
24-50/60	24/60	1.56	.52	12		
120-50/60	120/50	.36	.14	17		
120-50/60	120/60	.31	.10	12		
240-50/60	240/50	.19	.08	19		
240-50/60	240/60	.17	.06	14		

### ASC2 Coil:100RB, 240RA, 710/713RA, EPRB(S)

Nominal Voltage and Frequency	Applied Voltage and Frequency	Amperes		VA Holding	Watts Max.	Coil Insulation
		Inrush	Holding			
24-50/60	24/50	1.67	1.10	26	12	Class F Molded
24-50/60	24/60	1.41	.83	20		
120-50/60	120/50	.31	.22	26		
120-50/60	120/60	.26	.16	20		
240-50/60	240/50	.17	.13	31		
240-50/60	240/60	.15	.10	23		

### DM Coil:100RB, 240RA, 710/713RA, EPRB(S)

Nominal Voltage and Frequency	Applied Voltage and Frequency	Amperes		VA Holding	Watts Max.	Coil Insulation
		Inrush	Holding			
24-50/60	24/50	1.21	.72	17	10	Class F Molded
24-50/60	24/60	1.02	.52	13		
120-50/60	120/50	.24	.14	17		
120-50/60	120/60	.20	.10	12		
240-50/60	240/50	.13	.08	20		
240-50/60	240/60	.11	.06	14		

### RMS/RMF Coil:50RB

Nominal Voltage and Frequency	Applied Voltage and Frequency	Amperes		VA Holding	Watts Max.	Coil Insulation
		Inrush	Holding			
24-50/60	24/50	.87	.50	12	7	Class F Molded
24-50/60	24/60	.90	.40	10		
120-50/60	120/50	.19	.19	22		
120-50/60	120/60	.17	.09	10		
208-50/60	208/60	.08	.03	7		
220-50/60	220/50	.10	.05	11		
240-50/60	240/50	.11	.06	14		
240-50/60	240/60	.10	.04	11		

# Refrigeration

## EMERSON CLIMATE TECHNOLOGIES-Coils for Solenoid Valves

### Ordering Information

#### AMG - Junction Box



6" Leads

PCN	Voltage/Frequency	Description
057669	24V 50/60 Hz	AHG 24V 50/60 Hz
057341	24V 50/60 Hz	AMG 24V 50/60 Hz
055129	24V 50/60 Hz	DMG 24V 50/60 Hz
057673	120V 50/60 Hz	AHG 120V 50/60 Hz
057331	120V 50/60 Hz	AMG 120V 50/60 Hz
054762	120V 50/60 Hz	DMG 120V 50-60 Hz
057671	208-220/208-240V 50/60 Hz	AHG 208-220/208-240 50/60 Hz
057342	208-220/208-240V 50/60 Hz	AMG 208-220/208-240 50/60 Hz
054764	208-220/208-240V 50/60 Hz	DMG 208-220/208-240 50/60 Hz
057527	480V 50/60 Hz	AMG 480V 50/60 Hz
057343	120-240V 50/60 Hz	AMG 120-240V 50/60 Hz
057528	277V 60 Hz	AMG 277V 60 Hz
057521	12V DC	AMG 12V DC
057523	24V DC	AMG 24V DC

#### AMC - 1/2" Conduit



18" Leads

PCN	Voltage/Frequency	Description
057631	24V 50/60 Hz	AMC 24V 50/60 Hz
057736	24V 50/60 Hz	AHC 24V 50/60 Hz
057598	120V 50/60 Hz	AMC 120V 50/60 Hz
057743	120V 50/60 Hz	AHC 120V 50/60 Hz
057741	208-220/208-240V 50/60 Hz	AHC 208-220/208-240 50/60 Hz
057594	208-220/208-240V 50/60 Hz	AMC 208-220/208-240 50/60 Hz
057730	120-240V 50/60 Hz	AMC 120-240V 50/60 Hz
057596	12V DC	AMC 12V DC
057633	24V DC	AMC 24V DC

#### AMS - Open Frame



18" Leads or 1.4" Spades

PCN	Voltage/Frequency	Description
057539	24V 50/60 Hz	AMF 24V 50/60 Hz
057538	24V 50/60 Hz	AMF 24V 50/60 Hz
065677	24V 50/60 Hz	RMF 24V 50/60 Hz
057603	24V 50/60 Hz	AMS 24V 50/60 Hz
065680	24V 50/60 Hz	RMS 24V 50/60 Hz
065678	120V 50/60 Hz	RMF 120V 50/60 Hz
057349	120V 50/60 Hz	AMS 120V 50/60 Hz
065204	120V 50/60 Hz	RMS 120V 50/60 Hz
057540	208-220/208-240V 50/60 Hz	AMF 208-220/208-240 50/60 Hz
065679	208-220/208-240V 50/60 Hz	RMF 208-220/208-240 50/60 Hz
057531	208-220/208-240V 50/60 Hz	AMS 208-220/208-240 50/60 Hz
065681	208-220/208-240V 50/60 Hz	RMS 208-220/208-240 50/60 Hz
062013	208-220/208-240V 50/60 Hz	DMS 208-220/208-240 50/60 Hz
057534	480V 50/60 Hz	AMF 480V 50/60 Hz
062410	120-240V 50/60 Hz	AMF 120-240V 50/60 Hz
057533	277V 60 Hz	AMF 277V 50/60 Hz
057714	277V 60 Hz	AMS 277V 50/60 Hz

#### ASC2 - DIN



PCN	Voltage/Frequency	Description
062792	24V 50/60 Hz	ASC2 24/50-60
063542	24V 50/60 Hz	ASC2L 24/50-60
062462	120V 50/60 Hz	ASC2 120/50-60
015384	120V 50/60 Hz	ASC2 GS-2562-1
062463	208-220/208-240 50-60 Hz	ASC2 208-240/50-60
015383	208-220/208-240 50-60 Hz	ASC2 GS-2562-2
064375	24V	ASC2 24V DC

Compressors,  
Chillers, Condensers

Motors

Electrical

Heating  
Components

Indoor Air  
Quality

Thermostats

Oils &  
Chemicals

Accessories, Supplies  
& Commodities

Tools &  
Instruments

Refrigeration

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### MMG - Special DC



PCN	Voltage/Frequency	Description
063524	12V	MMG 12V DC
062972	12V	MMF 12V DC
063526	24V	MMG 24V DC

AM and ASC 2 style DC coils should not be used for direct replacements on OEM equipment. The use of this coil on new applications may result in the valve not opening. New applications should use the MM coil because of the significant increase in opening power of the MM Coil over the standard AM and ASC 2 style DC coil.

#### Coil Enclosure Options

Options	Code
Junction Box	G
Conduit - 18" Leads	C
Open Frame - 18" Leads	F
Open Frame - Spades	S

#### Dual Voltage Wiring Diagram



A	B
120	240
240	480