

MATSUSHITA Compressor

Single Phase

115 V

MODEL# QA110K27CAU6 (100 μ F Start Cap.) R-134a

60 Hz

Voltage Range 103 Volts to 127 Volts @ 60 Hz
 Application High Back Pressure
 Compressor Cooling Fan Cooling

Refrigerant Control . . Capillary Tube
 Evaporator
 Temp. Range 23°F to 59°F / -5°C to 15°C

Rated Performance Data

Capacity 3,926 Btu/h \pm 10% *
 E.E.R. 7.51 Btu/Wh \pm 10% *
 Current 6.06 Amps *

Nominal Motor Data Motor Input 523 Watts*
 Rated Current . . 6.00 Amps
 Type CSIR, Current relay

Start Current 29.7 Amps
 Coil Resistances Run 1.18 Ohms
 @ 68°F (20°C) Start . . . 7.51 Ohms

*Test Conditions for Performance Specifications

Test Oil Freol α 22
 Shell Temp 170.0°F / 76.0°C
 Condensing Temp 130.0°F / 54.4°C
 Evaporating Temp 45.0°F / 7.2°C
 Ambient Temp 95.0°F / 35.0°C
 Gas Superheat 95.0°F / 35.0°C
 Liquid Sub-Cooling 115.0°F / 46.1°C

Electrical Accessories†

Overload Protector
 Nominal Operating Characteristics

Model Name MST18ALZ
 Manufacturer Texas Instruments
 Temperature To Open: 248°F \pm 9°F / 120°C \pm 5°C
 Close: 142°F \pm 20°F / 61°C \pm 11°C
 Trip Current @ 158°F (70°C) 8.0 Amps \pm 7.5%
 @ 77°F (25°C) 18.3 Amps @ 18 sec. max.

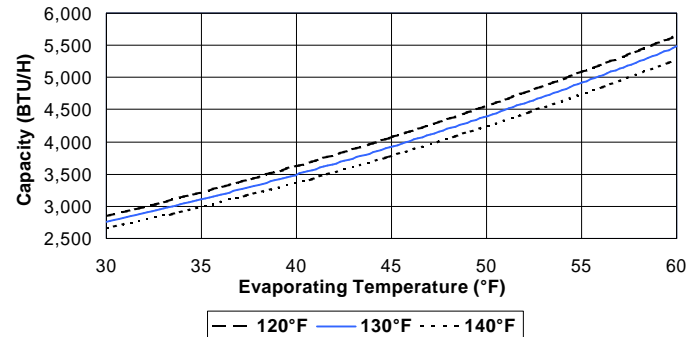
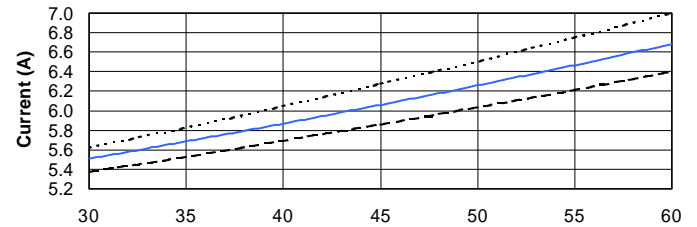
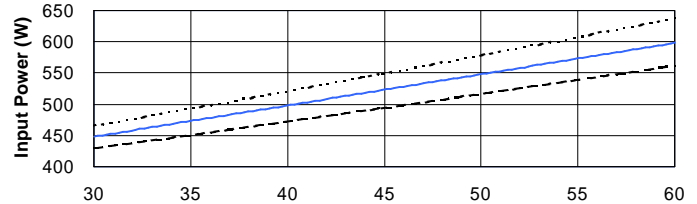
Current Relay Model
 Nominal Operating Characteristics

Model Name MM5-E3CH
 Manufacturer Matsushita
 Pick Up Current 14.3 max. Amps
 Drop Out Current 12.0 max. Amps

Start Capacitor 100 μ F 160 V (min.)

†Although these accessories are listed by UL/CSA for use with this compressor, Matsushita assumes no responsibility whatsoever for these or any other components sourced by the refrigeration system manufacturer from third parties.

Performance Curves



9 - Point Data

| Condensing Temp. | Rating | Evaporating Temp. | | |
|------------------|--------|-------------------|-------|-------|
| | | +30°F | +45°F | +59°F |
| 140°F | Btu/h | 2,660 | 3,780 | 5,169 |
| | Watts | 465 | 549 | 631 |
| | Amps | 5.62 | 6.27 | 6.95 |
| | E.E.R. | 5.72 | 6.89 | 8.19 |
| 130°F | Btu/h | 2,759 | 3,926 | 5,364 |
| | Watts | 448 | 523 | 593 |
| | Amps | 5.51 | 6.06 | 6.64 |
| | E.E.R. | 6.16 | 7.51 | 9.05 |
| 120°F | Btu/h | 2,847 | 4,070 | 5,534 |
| | Watts | 429 | 494 | 557 |
| | Amps | 5.37 | 5.86 | 6.36 |
| | E.E.R. | 6.64 | 8.24 | 9.94 |

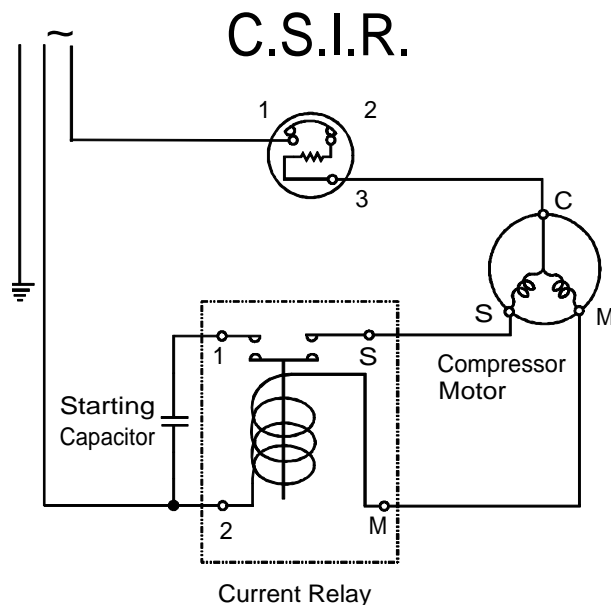
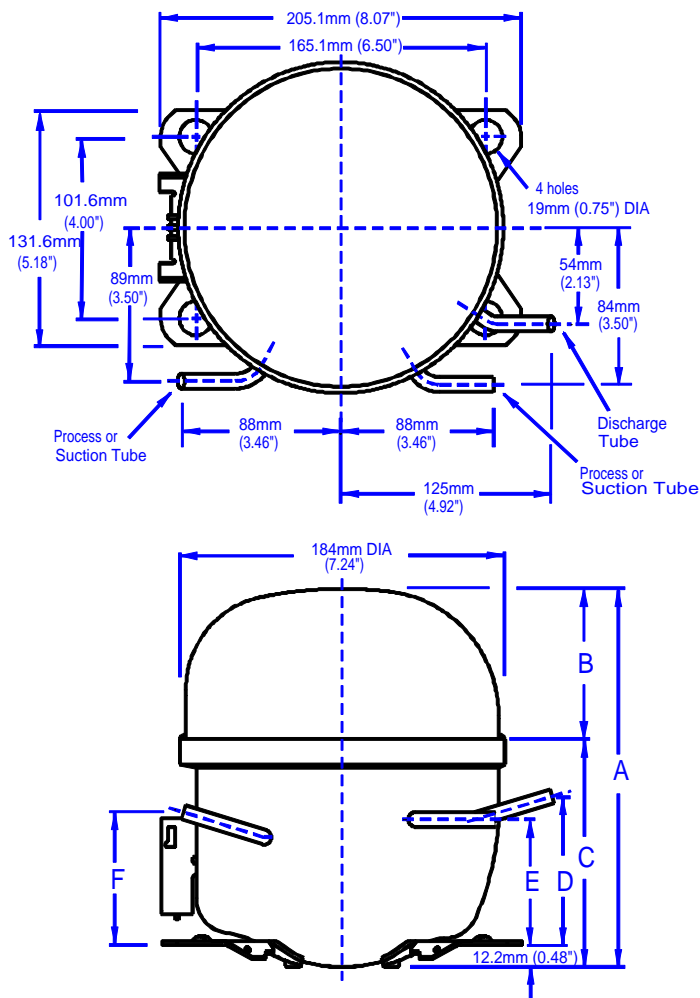
MATSUSHITA Compressor

MODEL# QA110K27CAU6 (100µF Start Cap.) R-134a

Single Phase

115 V

60 Hz



Dimensions*

| | mm | inches |
|---|-------|--------|
| A | 208.6 | 8.21 |
| B | 92.8 | 3.65 |
| C | 115.8 | 4.56 |
| D | 77.0 | 3.03 |
| E | 62.2 | 2.45 |
| F | 77.0 | 3.03 |

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| Tubes | Tube O.D. | Wall | Material |
|-----------|-------------------|--------------------|----------|
| Suction | 0.39 in. / 10 mm | 0.035 in. / 0.9 mm | Copper |
| Process | 0.39 in. / 10 mm | 0.035 in. / 0.9 mm | Copper |
| Discharge | 0.33 in. / 8.3 mm | 0.035 in. / 0.9 mm | Copper |

U.L. File # SA 4615
 C.S.A. File #'s LR - 34080
 LR - 36593
 LR - 100738

| General Data | Oil Charge |
|---------------------|--|
| Oil Charge | 250 cc ± 5 cc / 15.3 cu.in. ± 0.3 cu.in. |
| Net Weight With Oil | 22.2 lbs, 10.1 kg |
| Approved Oils | FREOL α 22 |
| Residual Moisture | 120 mg max. |
| Impurities | 10 mg max. |
| Displacement | 10.86 cc. / 0.663 cu. in. |

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Panasonic Industrial Company
 Refrigeration Products Department
 Tel: 201 - 392 - 4249
 Fax: 201 - 392 - 4315

Rev#1-5/9

MATSUSHITA Compressor

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Capacity 3,926 Btu/h $\pm 10\%$ *
E.E.R. 7.51 Btu/Wh $\pm 10\%$ *
Current 6.06 Amps *

Nominal Motor Data Motor Input 523 Watts*
 Rated Current . . . 6.00 Amps
 Type RSIR, PTC relay

Locked Rotor 30.7 Amps
Start Current 36.4 Amps
Coil Resistances Run 1.18 Ohms
 @ 68°F (20°C) Start . . . 7.00 Ohms

*Test Conditions for Performance Specifications

Test Oil Freol α 22
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Condensing Temp 130.0°F / 54.4°C
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Electrical Accessories†

Overload Protector
Nominal Operating Characteristics

Model Name MST18ALZ
Manufacturer Texas Instruments
Temperature To Open: 248°F $\pm 9^\circ$ F / 120°C $\pm 5^\circ$ C
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 @ 77°F (25°C) 18.3 Amps @ 18 sec. max.

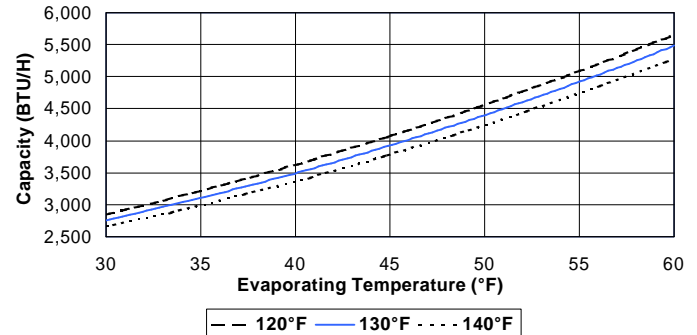
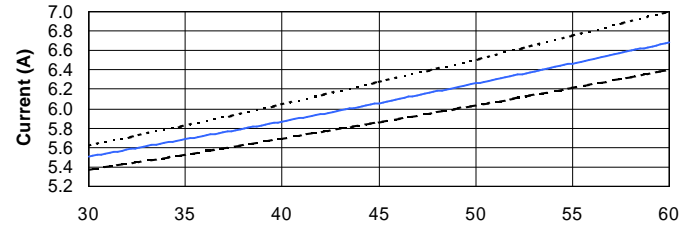
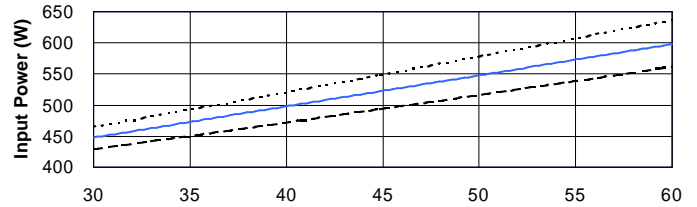
P.T.C. Starting Device
Nominal Operating Characteristics

| Model Name | MM8-5CDP4M7 | PTH7M4R7MC1 | |
|-------------------------|-------------|-------------|---------|
| Manufacturer | Matsushita | Murata Mfg. | |
| Base resistance | | | |
| @ 77°F(25°C) $\pm 20\%$ | 4.7 | 4.7 | Ohms |
| Power Consumption (max) | 4.0 | 3.0 | Watts |
| Operation time | 1.5 to 3.5 | 0.7 to 2.2 | seconds |
| Recovery time (max) | 85 | 70 | seconds |

Run Capacitor — μ F — V (min.)

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Performance Curves



9 - Point Data

| Condensing Temp. | Rating | Evaporating Temp. | | |
|------------------|--------|-------------------|-------|-------|
| | | +30°F | +45°F | +59°F |
| 140°F | Btu/h | 2,660 | 3,780 | 5,469 |
| | Watts | 465 | 549 | 631 |
| | Amps | 5.62 | 6.27 | 6.95 |
| | E.E.R. | 5.72 | 6.89 | 8.19 |
| 130°F | Btu/h | 2,759 | 3,926 | 5,364 |
| | Watts | 448 | 523 | 593 |
| | Amps | 5.51 | 6.06 | 6.64 |
| | E.E.R. | 6.16 | 7.51 | 9.05 |
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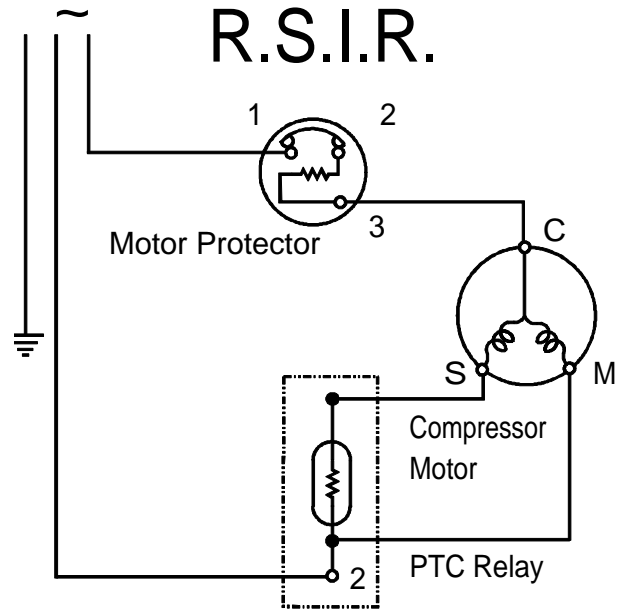
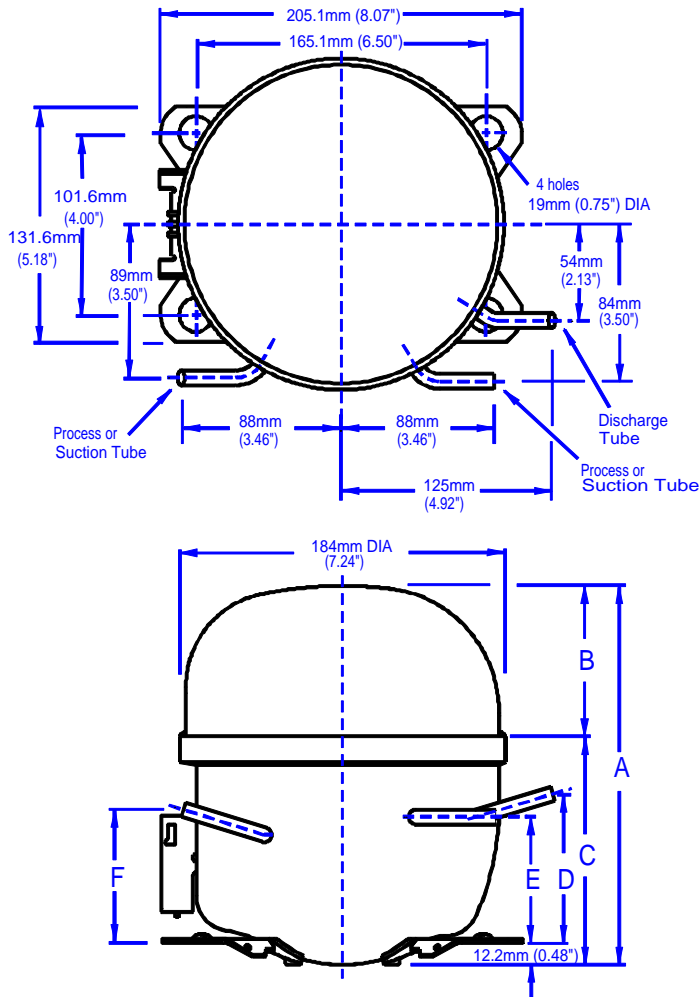
Rev#1-5/9

MATSUSHITA Compressor

MODEL# QA110K27GAU6

Single Phase
R-134a

115 V
60 Hz



Dimensions*

| | mm | inches |
|---|-------|--------|
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| B | 92.8 | 3.65 |
| C | 115.8 | 4.56 |
| D | 77.0 | 3.03 |
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| Process | 0.39 in. / 10 mm | 0.035 in. / 0.9 mm | Copper |
| Discharge | 0.33 in. / 8.3 mm | 0.035 in. / 0.9 mm | Copper |

U.L. File # SA 4615
 C.S.A. File #'s LR - 34080
 LR - 36593
 LR - 100738

| General Data | Oil Charge | Oil Charge |
|---------------------|--|------------|
| Oil Charge | 250 cc ± 5 cc / 15.3 cu.in. ± 0.3 cu.in. | |
| Net Weight With Oil | 22.2 lbs, 10.1 kg | |
| Approved Oils | FREOL α 22 | |
| Residual Moisture | 120 mg max. | |
| Impurities | 10 mg max. | |
| Displacement | 10.86 cc. / 0.663 cu. in. | |

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Rev#1-5/9

MATSUSHITA Compressor

MODEL# QA125K29CAU6 (100 μ F Start Cap.) R-134a

Single Phase

115 V
60 Hz

Voltage Range 103 Volts to 127 Volts @ 60 Hz
Application High Back Pressure
Compressor Cooling Fan Cooling

Refrigerant Control . . . Capillary Tube
Evaporator
Temp. Range 23°F to 59°F / -5°C to 15°C

Rated Performance Data

Capacity 4,524 Btu/h \pm 10% *
E.E.R. 7.08 Btu/Wh \pm 10% *
Current 6.88 Amps *

Nominal Motor Data Motor Input 639 Watts*
 Rated Current . . . 6.01 Amps
 Type CSIR, Current relay

Start Current 30.7 Amps
Coil Resistances Run 1.06 Ohms
@ 68°F (20°C) Start . . . 7.53 Ohms

*Test Conditions for Performance Specifications

Test Oil Freol α 22
Shell Temp 170.0°F / 76.0°C
Condensing Temp 130.0°F / 54.4°C
Evaporating Temp 45.0°F / 7.2°C
Ambient Temp 95.0°F / 35.0°C
Gas Superheat 95.0°F / 35.0°C
Liquid Sub-Cooling 115.0°F / 46.1°C

Electrical Accessories[†]

Overload Protector
Nominal Operating Characteristics

Model Name MST00AKZ
Manufacturer Texas Instruments
Temperature To Open: 248°F \pm 9°F / 120°C \pm 5°C
 Close: 142°F \pm 20°F / 61°C \pm 11°C
Trip Current @158°F (70°C) 10.3 Amps \pm 7.5%
 @77°F (25°C) 20.0 Amps @ 18 sec. max.

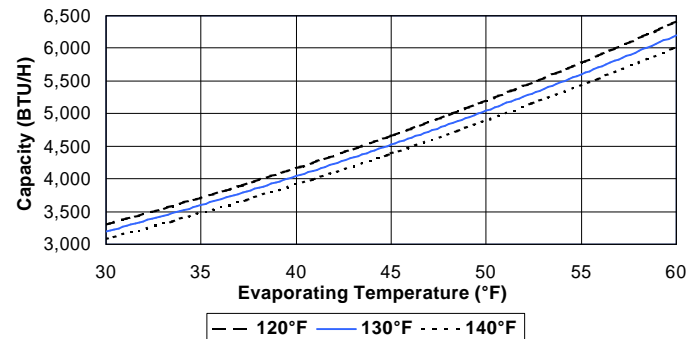
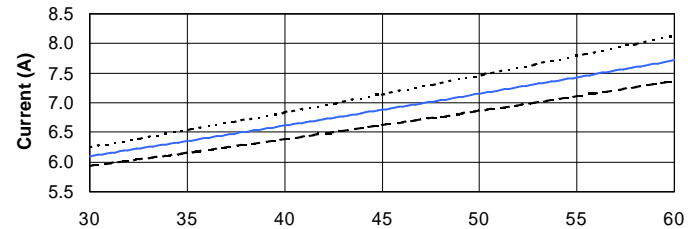
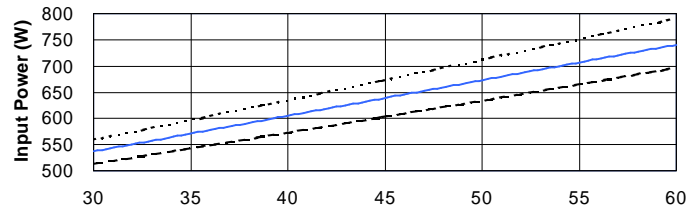
Current Relay Model
Nominal Operating Characteristics

Model Name MM5-E3CH
Manufacturer Matsushita
Pick Up Current 14.3 max. Amps
Drop Out Current 12.0 max. Amps

Start Capacitor 100 μ F 160 V (min.)

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Performance Curves



9 - Point Data

| Condensing Temp. | Rating | Evaporating Temp. | | |
|------------------|--------|-------------------|-------|-------|
| | | +30°F | +45°F | +59°F |
| 140°F | Btu/h | 3,076 | 4,384 | 5,896 |
| | Watts | 559 | 673 | 783 |
| | Amps | 6.25 | 7.14 | 8.06 |
| | E.E.R. | 5.50 | 6.51 | 7.53 |
| 130°F | Btu/h | 3,196 | 4,524 | 6,077 |
| | Watts | 537 | 639 | 734 |
| | Amps | 6.10 | 6.88 | 7.66 |
| | E.E.R. | 5.95 | 7.08 | 8.28 |
| 120°F | Btu/h | 3,302 | 4,657 | 6,275 |
| | Watts | 513 | 603 | 690 |
| | Amps | 5.93 | 6.62 | 7.31 |
| | E.E.R. | 6.44 | 7.72 | 9.09 |



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Rev#1-5/9

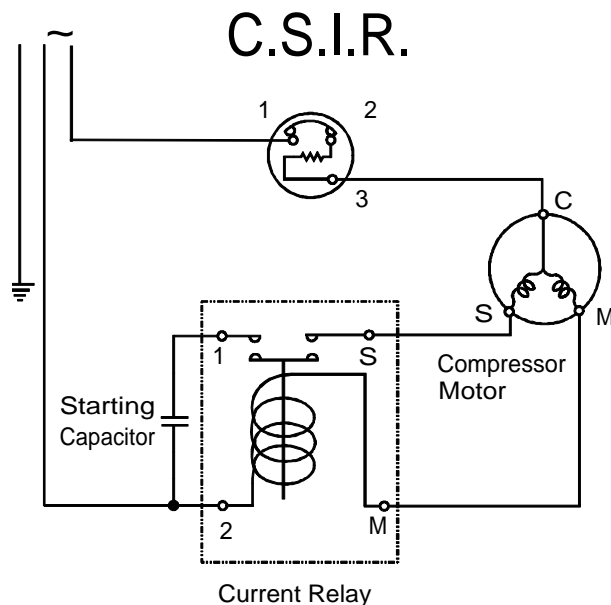
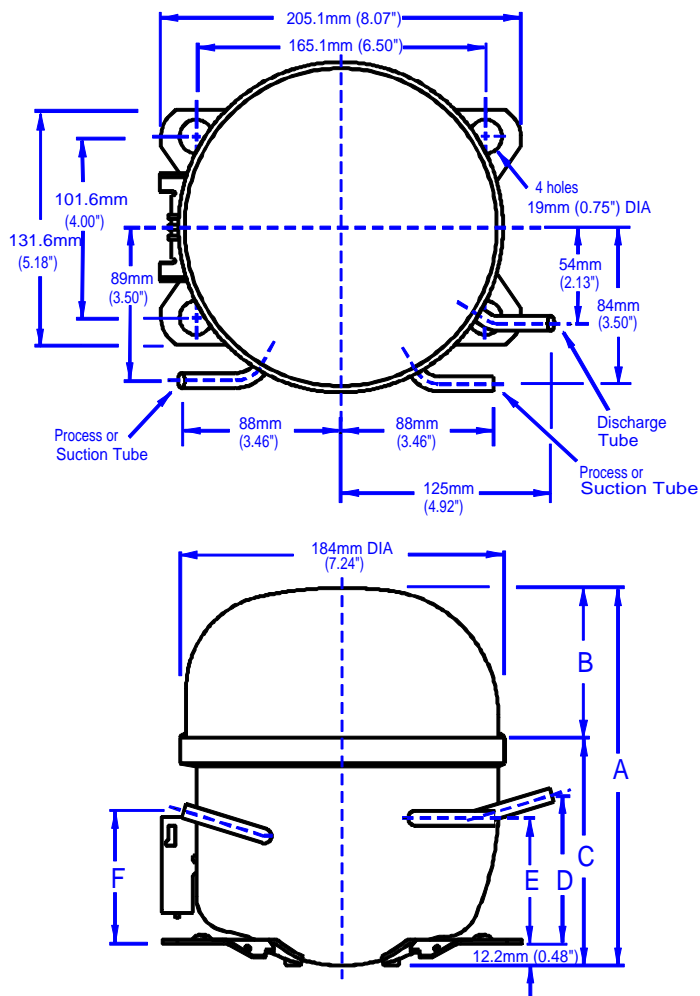
MATSUSHITA Compressor

MODEL# QA125K29CAU6 (100 μ F Start Cap.) R-134a

Single Phase

115 V

60 Hz



Dimensions*

| | mm | inches |
|---|-------|--------|
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U.L. File # SA 4615
 C.S.A. File #'s LR - 34080
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 LR - 100738

| General Data | Oil Charge |
|---------------------|--|
| Oil Charge | 250 cc \pm 5 cc / 15.3 cu.in. \pm 0.3 cu.in. |
| Net Weight With Oil | 22.2 lbs, 10.1 kg |
| Approved Oils | FREOL α 22 |
| Residual Moisture | 120 mg max. |
| Impurities | 10 mg max. |
| Displacement | 12.50 cc. / 0.763 cu. in. |

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E.E.R. 7.08 Btu/Wh $\pm 10\%$ *
Current 6.88 Amps *

Nominal Motor Data Motor Input 639 Watts*
 Rated Current . . . 6.01 Amps
 Type RSIR, PTC relay

Locked Rotor 31.4 Amps
Start Current 38.5 Amps
Coil Resistances Run 1.06 Ohms
 @ 68°F (20°C) Start . . . 6.85 Ohms

*Test Conditions for Performance Specifications

Test Oil Freol α 22
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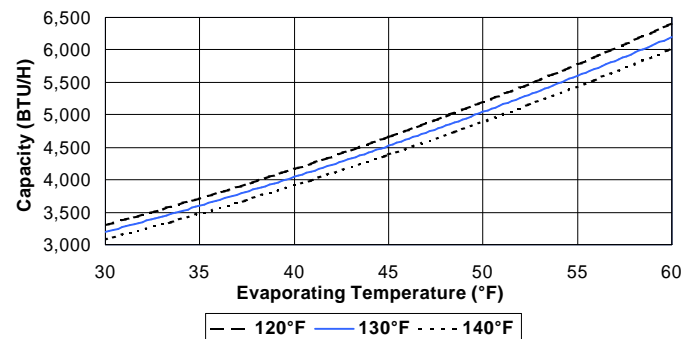
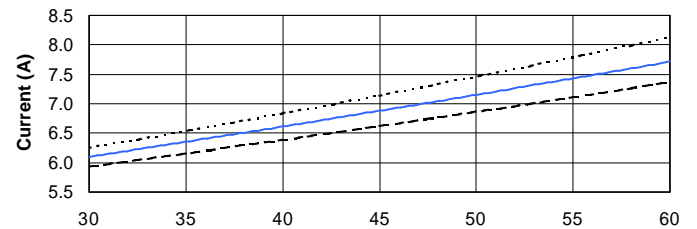
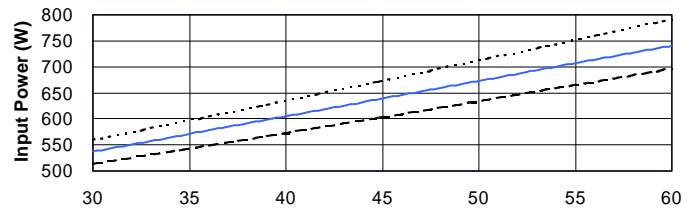
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Nominal Operating Characteristics

| Model Name | MM8-5CDP4M7 | PTH7M4R7MC1 | |
|-------------------------|-------------|-------------|---------|
| Manufacturer | Matsushita | Murata Mfg. | |
| Base resistance | | | |
| @ 77°F(25°C) $\pm 20\%$ | 4.7 | 4.7 | Ohms |
| Power Consumption (max) | 4.0 | 3.0 | Watts |
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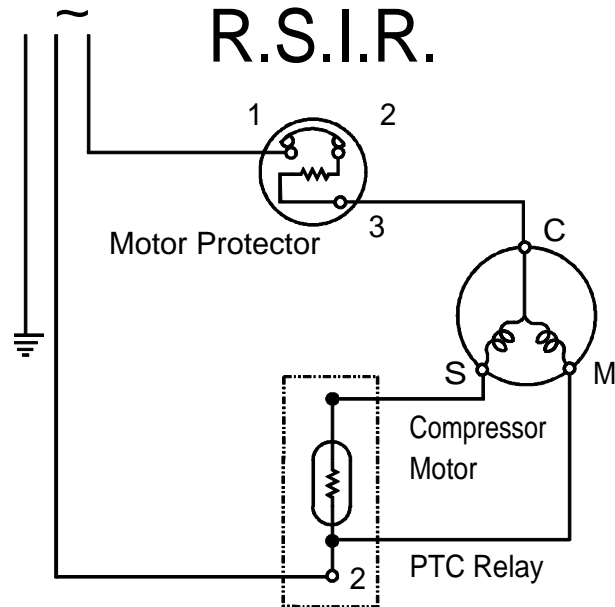
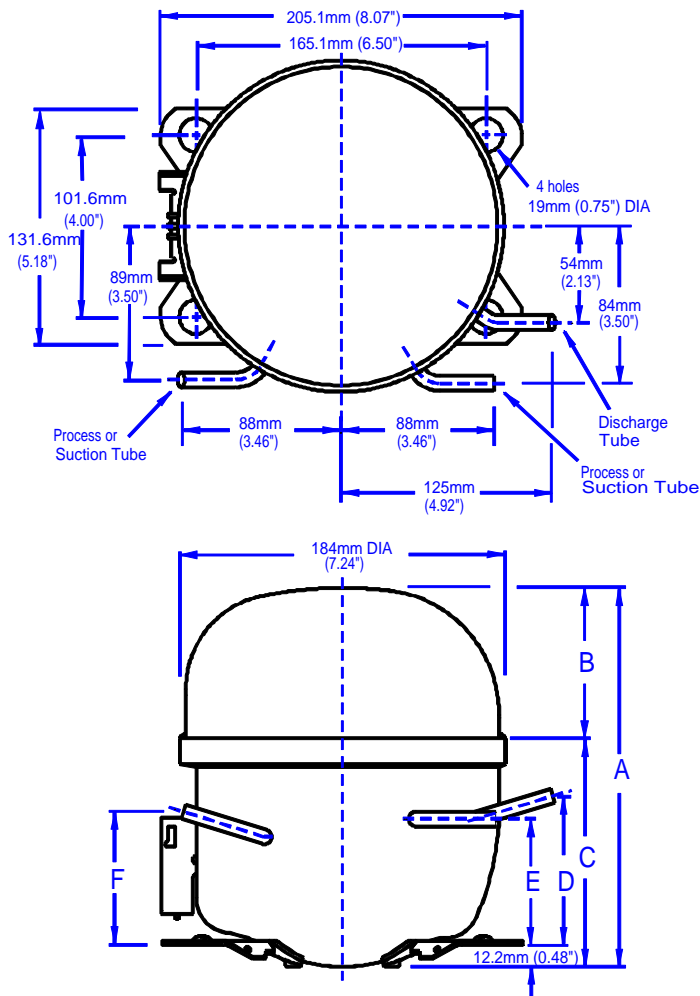
Rev#1-5/9

MATSUSHITA Compressor

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R-134a

115 V
60 Hz



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Temp. Range 23°F to 59°F / -5°C to 15°C

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Capacity 1,485 Btu/h $\pm 10\%$ *
E.E.R. 6.94 Btu/Wh $\pm 10\%$ *
Current 2.62 Amps *

Nominal Motor Data Motor Input 214 Watts*
 Rated Current . . . 2.31 Amps
 Type RSIR, PTC relay

Locked Rotor 12.3 Amps
Start Current 17.7 Amps
Coil Resistances Run 2.93 Ohms
 @ 68°F (20°C) Start 9.88 Ohms

*Test Conditions for Performance Specifications

Test Oil Freol α 22
Shell Temp 170.0°F / 76.0°C
Condensing Temp 130.0°F / 54.4°C
Evaporating Temp 45.0°F / 7.2°C
Ambient Temp 95.0°F / 35.0°C
Gas Superheat 95.0°F / 35.0°C
Liquid Sub-Cooling 115.0°F / 46.1°C

Electrical Accessories†

Overload Protector
Nominal Operating Characteristics

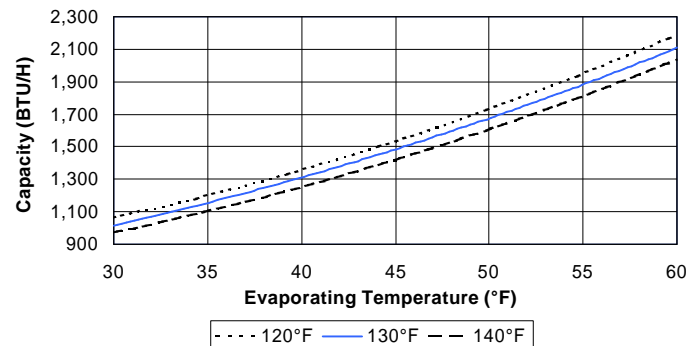
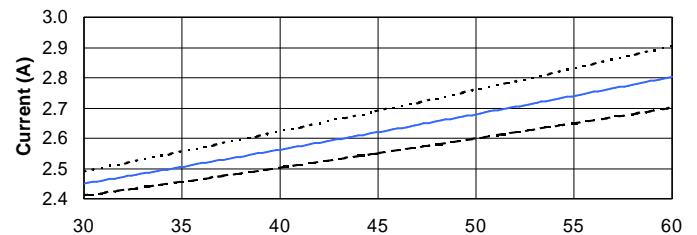
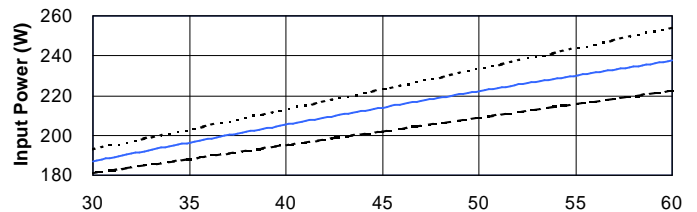
Model Name MM3-33EC
Manufacturer Matsushita
Temperature To Open: 230°F $\pm 9^\circ\text{F}$ / 110°C $\pm 5^\circ\text{C}$
 Close: 142°F $\pm 15^\circ\text{F}$ / 61°C $\pm 8^\circ\text{C}$
Trip Current @ 158°F (70°C) 3.3 Amps $\pm 7.5\%$
 @ 77°F (25°C) 10.0 Amps @ 18 sec. max.

P.T.C. Starting Device
Nominal Operating Characteristics

| Model Name | MM8-5CDP4M7 | PTH7M4R7MC1 | |
|-------------------------|----------------------------|-------------|---------|
| Manufacturer | Matsushita | Murata Mfg. | |
| Base resistance | | | |
| @ 77°F(25°C) $\pm 20\%$ | 4.7 | 4.7 | Ohms |
| Power Consumption (max) | 4.0 | 3.0 | Watts |
| Operation time | 1.5 to 3.5 | 0.7 to 2.2 | seconds |
| Recovery time (max) | 85 | 70 | seconds |
| Run Capacitor | — μF — V (min.) | | |

†Although these accessories are listed by UL/CSA for use with this compressor, Matsushita assumes no responsibility whatsoever for these or any other components sourced by the refrigeration system manufacturer from third parties.

Performance Curves



9 - Point Data

| Condensing Temp. | Rating | Evaporating Temp. | | |
|------------------|--------|-------------------|-------|-------|
| | | +30°F | +45°F | +59°F |
| 140°F | Btu/h | 973 | 1,420 | 1,990 |
| | Watts | 193 | 223 | 252 |
| | Amps | 2.49 | 2.69 | 2.89 |
| | E.E.R. | 5.04 | 6.37 | 7.90 |
| 130°F | Btu/h | 1,017 | 1,485 | 2,062 |
| | Watts | 187 | 214 | 236 |
| | Amps | 2.45 | 2.62 | 2.79 |
| | E.E.R. | 5.44 | 6.94 | 8.74 |
| 120°F | Btu/h | 1,065 | 1,533 | 2,141 |
| | Watts | 181 | 202 | 221 |
| | Amps | 2.41 | 2.55 | 2.69 |
| | E.E.R. | 5.88 | 7.59 | 9.69 |



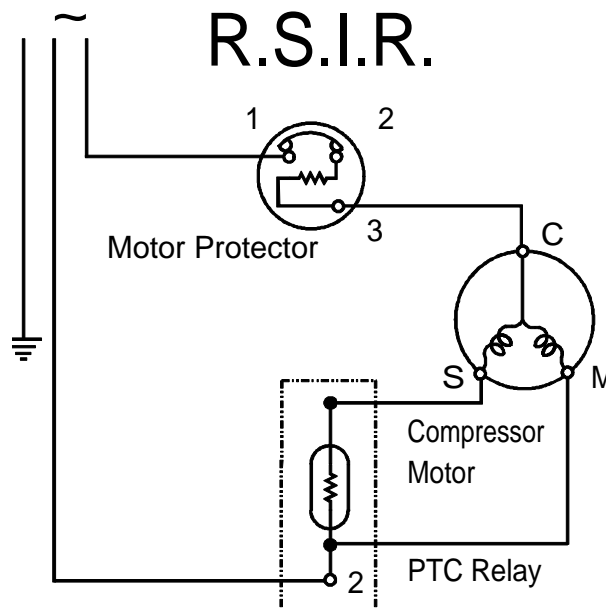
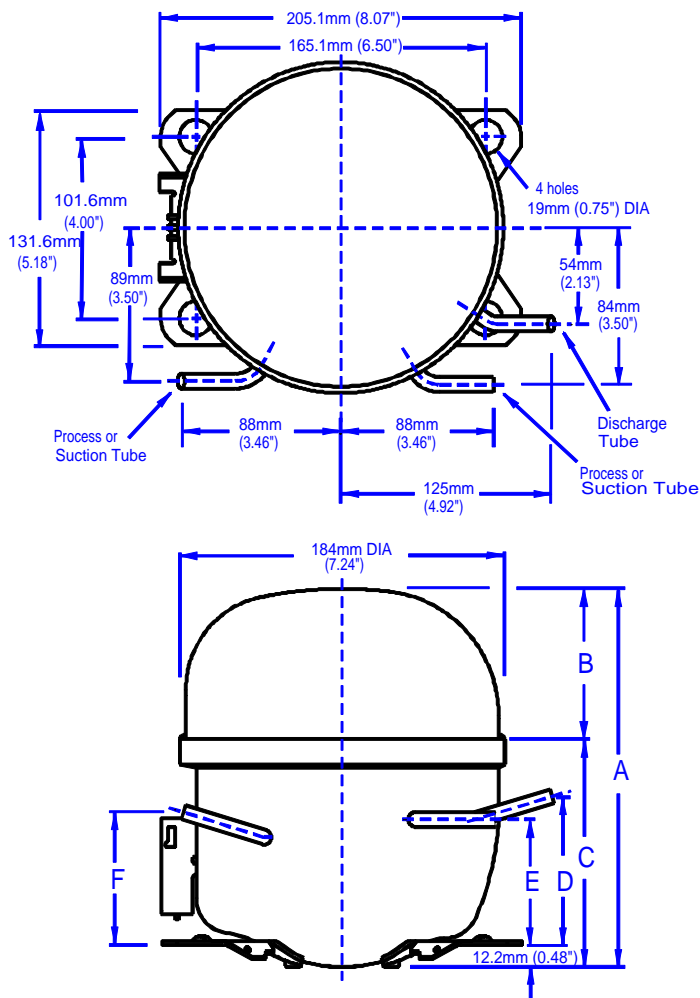
Panasonic Industrial Company
Refrigeration Products Department
Tel: 201 - 392 - 4249
Fax: 201 - 392 - 4315

MATSUSHITA Compressor

MODEL# QA43K11GAU6

Single Phase
R-134a

115 V
60 Hz



Dimensions*

| | mm | inches |
|---|-------|--------|
| A | 188.8 | 7.43 |
| B | 73.0 | 2.87 |
| C | 115.8 | 4.56 |
| D | 77.0 | 3.03 |
| E | 62.2 | 2.45 |
| F | 77.0 | 3.03 |

* All dimensions are for reference only

This document sets forth certain operational parameters and conditions for operation of this product. If this product is operated outside of the parameters and conditions stated herein, buyer assumes sole and full responsibility and shall indemnify seller with respect to all product failures and all consequences thereof. Operation of the product outside of the parameters and conditions specified herein shall serve to invalidate all seller warranties, if any, with respect to the product. This document is for reference only. For specifications, please contact Panasonic's engineering department.

| Tubes | Tube O.D. | Wall | Material |
|-----------|-------------------|--------------------|----------|
| Suction | 0.39 in. / 10 mm | 0.035 in. / 0.9 mm | Copper |
| Process | 0.39 in. / 10 mm | 0.035 in. / 0.9 mm | Copper |
| Discharge | 0.33 in. / 8.3 mm | 0.035 in. / 0.9 mm | Copper |

U.L. File # SA 4615
 C.S.A. File #'s LR - 34080
 LR - 36593
 LR - 100738

| General Data | Oil Charge | Oil Charge |
|---------------------|--|------------|
| Oil Charge | 250 cc ± 5 cc / 15.3 cu.in. ± 0.3 cu.in. | |
| Net Weight With Oil | 17.8 lbs, 8.1 kg | |
| Approved Oils | FREOL α 22 | |
| Residual Moisture | 120 mg max. | |
| Impurities | 10 mg max. | |
| Displacement | 4.33 cc. / 0.264 cu. in. | |

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Rev#1-5/9

MATSUSHITA Compressor

MODEL# QA51K13GAU6

Single Phase
R-134a

115 V
60 Hz

Voltage Range 103 Volts to 127 Volts @ 60 Hz
Application High Back Pressure
Compressor Cooling Fan Cooling

Refrigerant Control . . . Capillary Tube
Evaporator
Temp. Range 23°F to 59°F / -5°C to 15°C

Rated Performance Data

Capacity 1,810 Btu/h $\pm 10\%$ *
E.E.R. 7.24 Btu/Wh $\pm 10\%$ *
Current 2.85 Amps *

Nominal Motor Data Motor Input 250 Watts*
 Rated Current 2.29 Amps
 Type RSIR, PTC relay

Locked Rotor 14.5 Amps
Start Current 20.1 Amps
Coil Resistances Run 2.41 Ohms
 @ 68°F (20°C) Start 9.69 Ohms

*Test Conditions for Performance Specifications

Test Oil Freol α 22
Shell Temp 170.0°F / 76.0°C
Condensing Temp 130.0°F / 54.4°C
Evaporating Temp 45.0°F / 7.2°C
Ambient Temp 95.0°F / 35.0°C
Gas Superheat 95.0°F / 35.0°C
Liquid Sub-Cooling 115.0°F / 46.1°C

Electrical Accessories†

Overload Protector
Nominal Operating Characteristics

Model Name MM3-38EC
Manufacturer Matsushita
Temperature To Open: 230°F $\pm 9^\circ\text{F}$ / 110°C $\pm 5^\circ\text{C}$
 Close: 142°F $\pm 15^\circ\text{F}$ / 61°C $\pm 8^\circ\text{C}$
Trip Current @ 158°F (70°C) 3.8 Amps $\pm 7.5\%$
 @ 77°F (25°C) 11.0 Amps @ 18 sec. max.

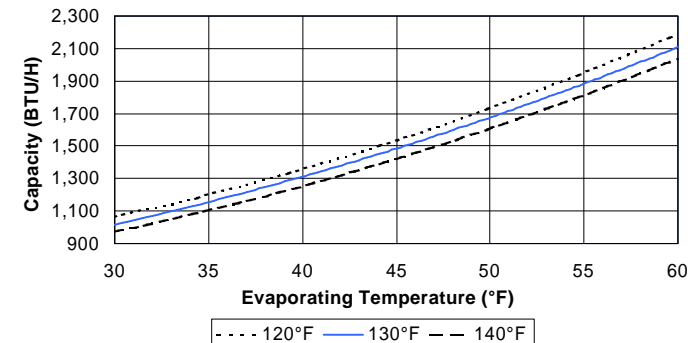
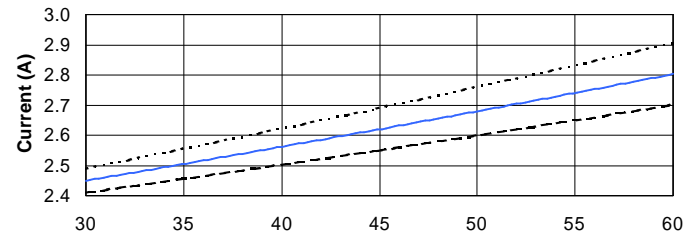
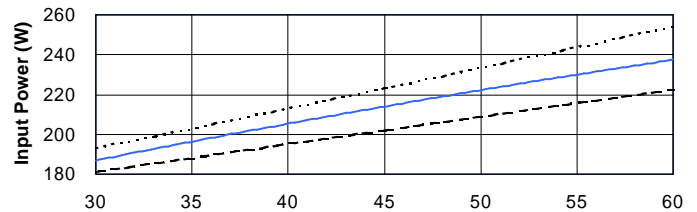
P.T.C. Starting Device
Nominal Operating Characteristics

| Model Name | MM8-5CDP4M7 | PTH7M4R7MC1 | |
|-------------------------|-------------|-------------|---------|
| Manufacturer | Matsushita | Murata Mfg. | |
| Base resistance | | | |
| @ 77°F(25°C) $\pm 20\%$ | 4.7 | 4.7 | Ohms |
| Power Consumption (max) | 4.0 | 3.0 | Watts |
| Operation time | 1.5 to 3.5 | 0.7 to 2.2 | seconds |
| Recovery time (max) | 85 | 70 | seconds |

Run Capacitor — μF — V (min.)

†Although these accessories are listed by UL/CSA for use with this compressor, Matsushita assumes no responsibility whatsoever for these or any other components sourced by the refrigeration system manufacturer from third parties.

Performance Curves



9 - Point Data

| Condensing Temp. | Rating | Evaporating Temp. | | |
|------------------|--------|-------------------|-------|-------|
| | | +30°F | +45°F | +59°F |
| 140°F | Btu/h | 1,212 | 1,734 | 2,421 |
| | Watts | 224 | 261 | 299 |
| | Amps | 2.67 | 2.93 | 3.23 |
| | E.E.R. | 5.41 | 6.64 | 8.10 |
| 130°F | Btu/h | 1,246 | 1,810 | 2,516 |
| | Watts | 216 | 250 | 282 |
| | Amps | 2.61 | 2.85 | 3.09 |
| | E.E.R. | 5.77 | 7.24 | 8.92 |
| 120°F | Btu/h | 1,301 | 1,885 | 2,602 |
| | Watts | 208 | 238 | 265 |
| | Amps | 2.57 | 2.77 | 2.97 |
| | E.E.R. | 6.25 | 7.92 | 9.82 |



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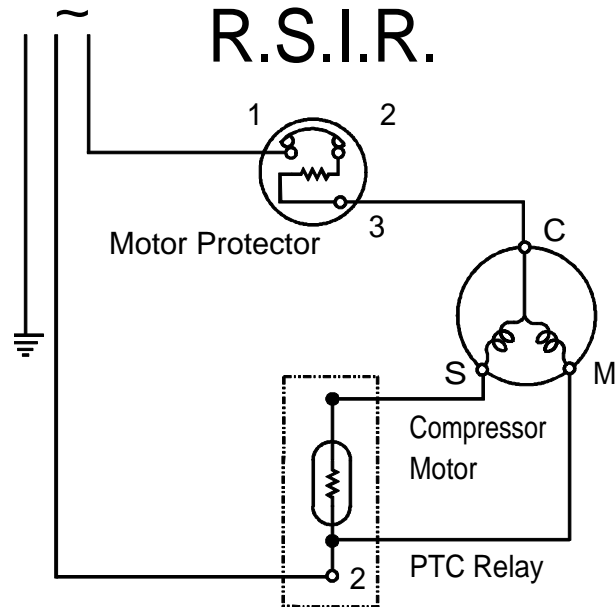
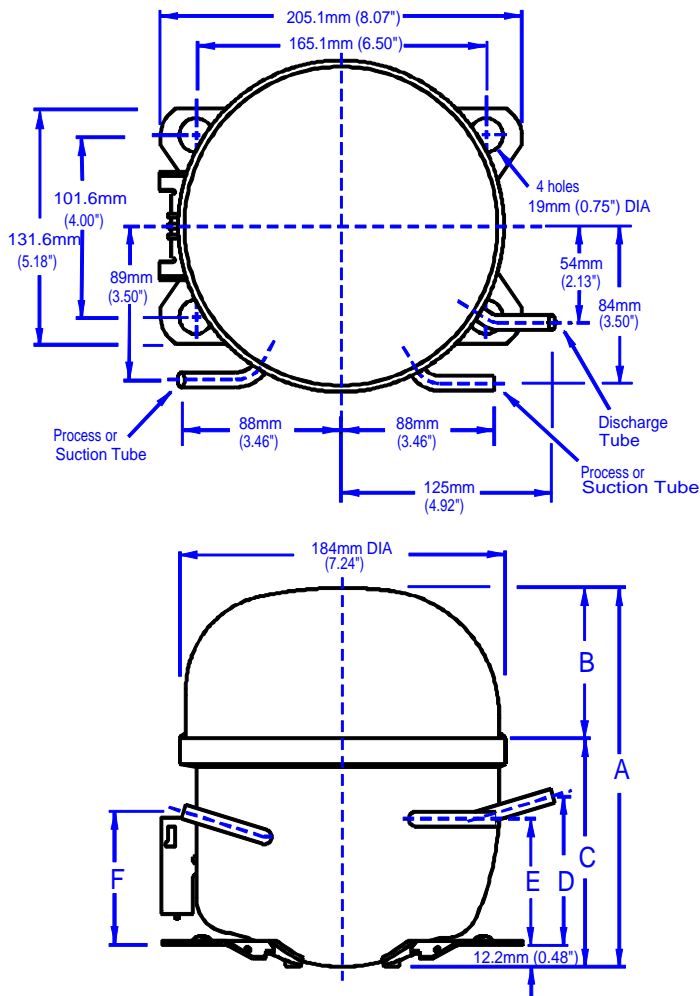
Rev#1-5/9

MATSUSHITA Compressor

MODEL# QA51K13GAU6

Single Phase
R-134a

115 V
60 Hz



Dimensions*

| | mm | inches |
|---|-------|--------|
| A | 188.8 | 7.43 |
| B | 73.0 | 2.87 |
| C | 115.8 | 4.56 |
| D | 77.0 | 3.03 |
| E | 62.2 | 2.45 |
| F | 77.0 | 3.03 |

* All dimensions are for reference only

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| Tubes | Tube O.D. | Wall | Material |
|-----------|-------------------|--------------------|----------|
| Suction | 0.39 in. / 10 mm | 0.035 in. / 0.9 mm | Copper |
| Process | 0.39 in. / 10 mm | 0.035 in. / 0.9 mm | Copper |
| Discharge | 0.33 in. / 8.3 mm | 0.035 in. / 0.9 mm | Copper |

U.L. File # SA 4615
 C.S.A. File #'s LR - 34080
 LR - 36593
 LR - 100738

| General Data | Oil Charge |
|---------------------|--|
| Oil Charge | 250 cc ± 5 cc / 15.3 cu.in. ± 0.3 cu.in. |
| Net Weight With Oil | 18.7 lbs, 8.5 kg |
| Approved Oils | FREOL α 22 |
| Residual Moisture | 120 mg max. |
| Impurities | 10 mg max. |
| Displacement | 5.10 cc. / 0.311 cu. in. |

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Rev#1-5/9

MATSUSHITA Compressor

MODEL# QA66K16GAU6

Single Phase
R-134a

115 V
60 Hz

Voltage Range 103 Volts to 127 Volts @ 60 Hz
Application High Back Pressure
Compressor Cooling Fan Cooling

Refrigerant Control . . . Capillary Tube
Evaporator
Temp. Range 23°F to 59°F / -5°C to 15°C

Rated Performance Data

Capacity 2,322 Btu/h $\pm 10\%$ *
E.E.R. 7.59 Btu/Wh $\pm 10\%$ *
Current 3.53 Amps *

Nominal Motor Data Motor Input 306 Watts*
 Rated Current . . . 2.70 Amps
 Type RSIR, PTC relay

Locked Rotor 17.5 Amps
Start Current 24.3 Amps
Coil Resistances Run 2.01 Ohms
 @ 68°F (20°C) Start . . . 7.44 Ohms

*Test Conditions for Performance Specifications

Test Oil Freol α 22
Shell Temp 170.0°F / 76.0°C
Condensing Temp 130.0°F / 54.4°C
Evaporating Temp 45.0°F / 7.2°C
Ambient Temp 95.0°F / 35.0°C
Gas Superheat 95.0°F / 35.0°C
Liquid Sub-Cooling 115.0°F / 46.1°C

Electrical Accessories†

Overload Protector
Nominal Operating Characteristics

Model Name MM3-43FC
Manufacturer Matsushita
Temperature To Open: 239°F $\pm 9^\circ\text{F}$ / 115°C $\pm 5^\circ\text{C}$
 Close: 142°F $\pm 15^\circ\text{F}$ / 61°C $\pm 8^\circ\text{C}$
Trip Current @ 158°F (70°C) 4.3 Amps $\pm 7.5\%$
 @ 77°F (25°C) 13.0 Amps @ 18 sec. max.

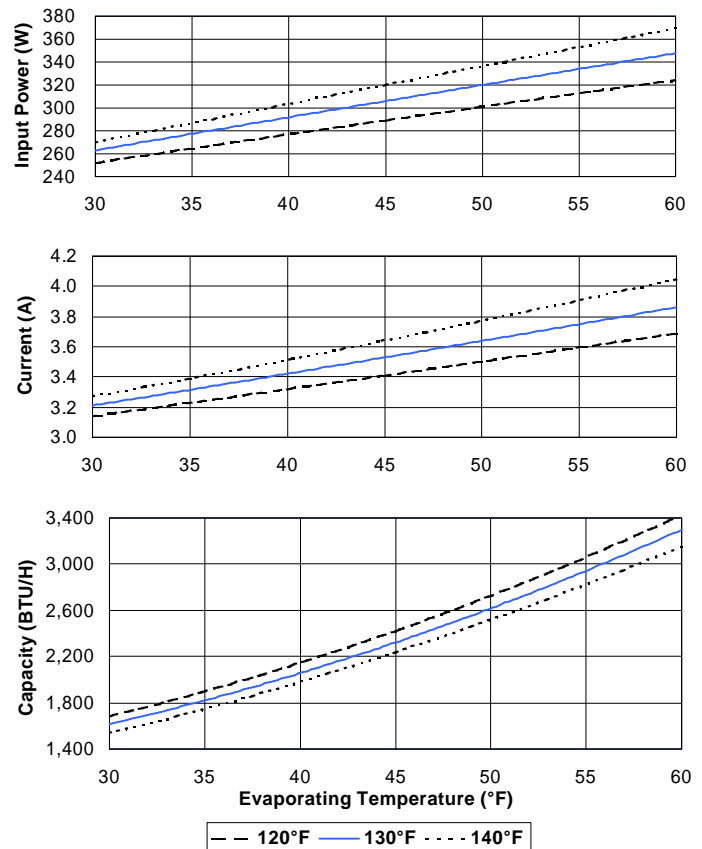
P.T.C. Starting Device
Nominal Operating Characteristics

| Model Name | MM8-5CDP4M7 | PTH7M4R7MC1 | |
|-------------------------|-------------|-------------|---------|
| Manufacturer | Matsushita | Murata Mfg. | |
| Base resistance | | | |
| @ 77°F(25°C) $\pm 20\%$ | 4.7 | 4.7 | Ohms |
| Power Consumption (max) | 4.0 | 3.0 | Watts |
| Operation time | 1.5 to 3.5 | 0.7 to 2.2 | seconds |
| Recovery time (max) | 85 | 70 | seconds |

Run Capacitor — μF — V (min.)

†Although these accessories are listed by UL/CSA for use with this compressor, Matsushita assumes no responsibility whatsoever for these or any other components sourced by the refrigeration system manufacturer from third parties.

Performance Curves



9 - Point Data

| Condensing Temp. | Rating | Evaporating Temp. | | |
|------------------|--------|-------------------|-------|-------|
| | | +30°F | +45°F | +59°F |
| 140°F | Btu/h | 1,536 | 2,236 | 3,086 |
| | Watts | 270 | 320 | 366 |
| | Amps | 3.27 | 3.64 | 4.02 |
| | E.E.R. | 5.69 | 6.99 | 8.43 |
| 130°F | Btu/h | 1,615 | 2,322 | 3,226 |
| | Watts | 263 | 306 | 345 |
| | Amps | 3.21 | 3.53 | 3.84 |
| | E.E.R. | 6.14 | 7.59 | 9.35 |
| 120°F | Btu/h | 1,680 | 2,421 | 3,349 |
| | Watts | 252 | 289 | 322 |
| | Amps | 3.14 | 3.41 | 3.67 |
| | E.E.R. | 6.67 | 8.38 | 10.40 |



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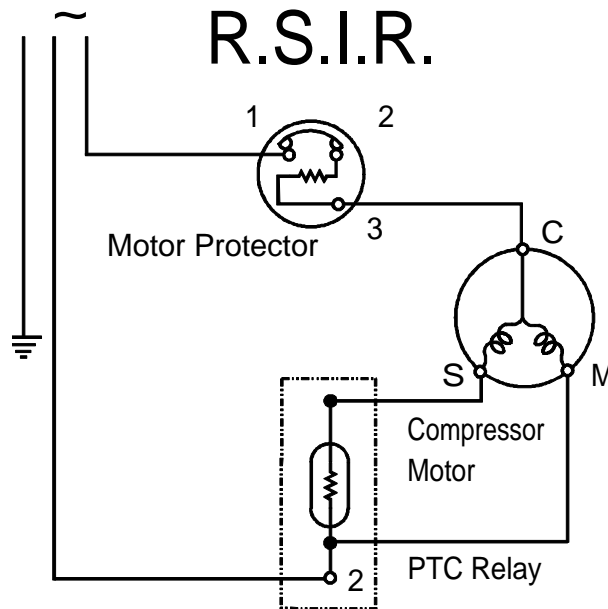
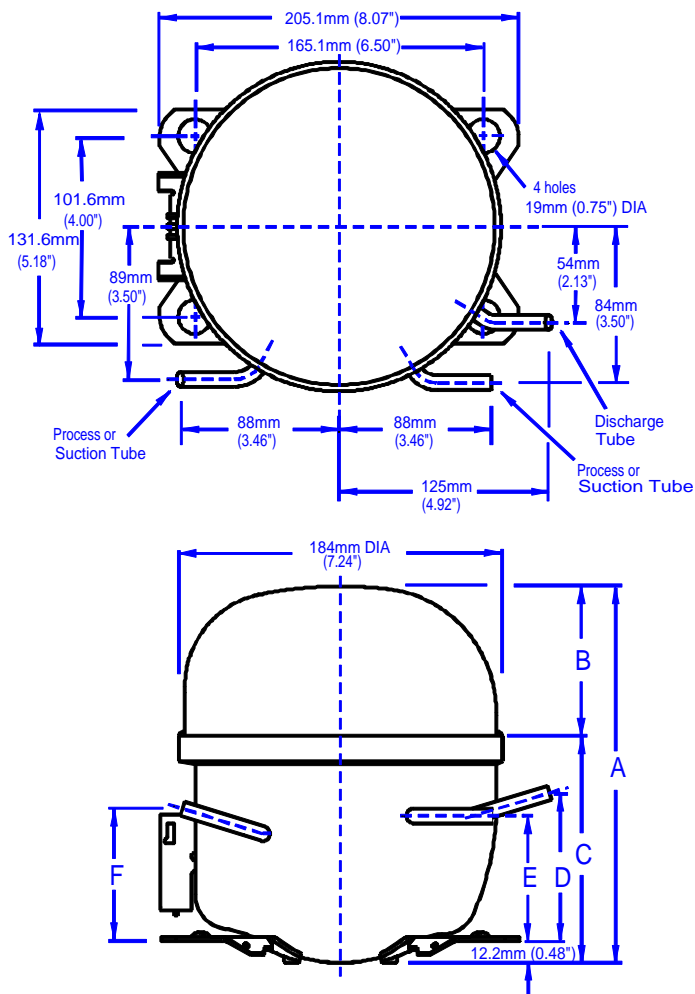
Rev#1-5/9

MATSUSHITA Compressor

MODEL# QA66K16GAU6

Single Phase
R-134a

115 V
60 Hz



Dimensions*

| | mm | inches |
|---|-------|--------|
| A | 188.8 | 7.43 |
| B | 73.0 | 2.87 |
| C | 115.8 | 4.56 |
| D | 77.0 | 3.03 |
| E | 62.2 | 2.45 |
| F | 77.0 | 3.03 |

* All dimensions are for reference only

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| Tubes | Tube O.D. | Wall | Material |
|-----------|-------------------|--------------------|----------|
| Suction | 0.39 in. / 10 mm | 0.035 in. / 0.9 mm | Copper |
| Process | 0.39 in. / 10 mm | 0.035 in. / 0.9 mm | Copper |
| Discharge | 0.33 in. / 8.3 mm | 0.035 in. / 0.9 mm | Copper |

U.L. File # SA 4615
 C.S.A. File #'s LR - 34080
 LR - 36593
 LR - 100738

| General Data | Oil Charge | Oil Charge |
|---------------------|--|------------|
| Oil Charge | 250 cc ± 5 cc / 15.3 cu.in. ± 0.3 cu.in. | |
| Net Weight With Oil | 19.2 lbs, 8.7 kg | |
| Approved Oils | FREOL α 22 | |
| Residual Moisture | 120 mg max. | |
| Impurities | 10 mg max. | |
| Displacement | 6.55 cc. / 0.400 cu. in. | |

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Rev#1-5/9

MATSUSHITA Compressor

MODEL# QA77K19GAU6

Single Phase
R-134a

115 V
60 Hz

Voltage Range 103 Volts to 127 Volts @ 60 Hz
Application High Back Pressure
Compressor Cooling Fan Cooling

Refrigerant Control . . . Capillary Tube
Evaporator
Temp. Range 23°F to 59°F / -5°C to 15°C

Rated Performance Data

Capacity 2,834 Btu/h $\pm 10\%$ *
E.E.R. 7.58 Btu/Wh $\pm 10\%$ *
Current 4.14 Amps *

Nominal Motor Data Motor Input 374 Watts*
 Rated Current . . . 3.15 Amps
 Type RSIR, PTC relay

Locked Rotor 20.3 Amps
Start Current 27.4 Amps
Coil Resistances Run 1.75 Ohms
 @ 68°F (20°C) Start . . . 6.89 Ohms

*Test Conditions for Performance Specifications

Test Oil Freol α 22
Shell Temp 170.0°F / 76.0°C
Condensing Temp 130.0°F / 54.4°C
Evaporating Temp 45.0°F / 7.2°C
Ambient Temp 95.0°F / 35.0°C
Gas Superheat 95.0°F / 35.0°C
Liquid Sub-Cooling 115.0°F / 46.1°C

Electrical Accessories†

Overload Protector
Nominal Operating Characteristics

Model Name MM3-54FC
Manufacturer Matsushita
Temperature To Open: 239°F $\pm 9^\circ\text{F}$ / 115°C $\pm 5^\circ\text{C}$
 Close: 142°F $\pm 15^\circ\text{F}$ / 61°C $\pm 8^\circ\text{C}$
Trip Current @ 158°F (70°C) 5.4 Amps $\pm 7.5\%$
 @ 77°F (25°C) 14.5 Amps @ 18 sec. max.

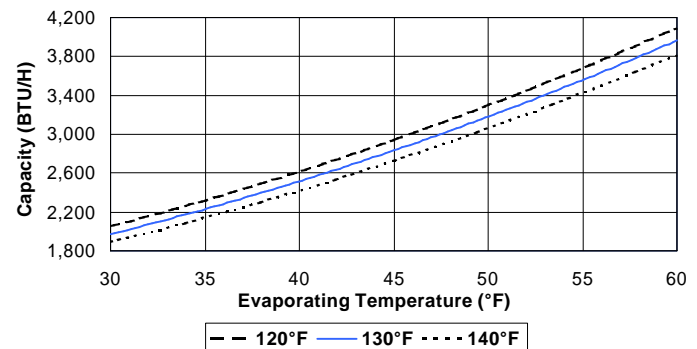
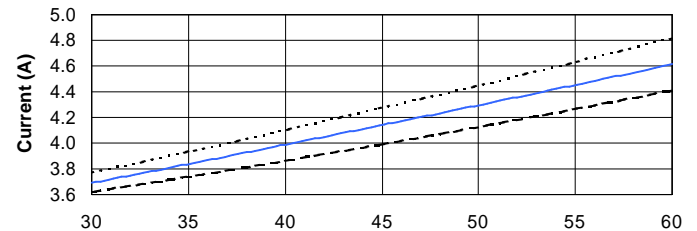
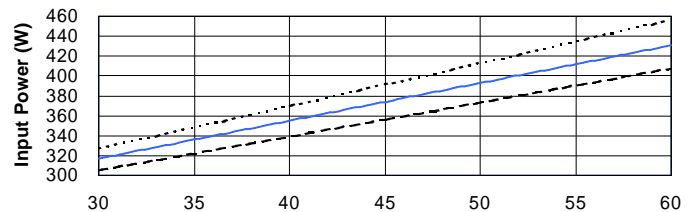
P.T.C. Starting Device
Nominal Operating Characteristics

| Model Name | MM8-5CDP4M7 | PTH7M4R7MC1 | |
|-------------------------|-------------|-------------|---------|
| Manufacturer | Matsushita | Murata Mfg. | |
| Base resistance | | | |
| @ 77°F(25°C) $\pm 20\%$ | 4.7 | 4.7 | Ohms |
| Power Consumption (max) | 4.0 | 3.0 | Watts |
| Operation time | 1.5 to 3.5 | 0.7 to 2.2 | seconds |
| Recovery time (max) | 85 | 70 | seconds |

Run Capacitor — μF — V (min.)

†Although these accessories are listed by UL/CSA for use with this compressor, Matsushita assumes no responsibility whatsoever for these or any other components sourced by the refrigeration system manufacturer from third parties.

Performance Curves



9 - Point Data

| Condensing Temp. | Rating | Evaporating Temp. | | |
|------------------|--------|-------------------|-------|-------|
| | | +30°F | +45°F | +59°F |
| 140°F | Btu/h | 1,888 | 2,725 | 3,735 |
| | Watts | 327 | 391 | 452 |
| | Amps | 3.77 | 4.27 | 4.78 |
| | E.E.R. | 5.77 | 6.97 | 8.26 |
| 130°F | Btu/h | 1,973 | 2,834 | 3,882 |
| | Watts | 317 | 374 | 427 |
| | Amps | 3.69 | 4.14 | 4.58 |
| | E.E.R. | 6.22 | 7.58 | 9.09 |
| 120°F | Btu/h | 2,052 | 2,940 | 4,008 |
| | Watts | 305 | 356 | 404 |
| | Amps | 3.62 | 3.99 | 4.38 |
| | E.E.R. | 6.73 | 8.26 | 9.92 |



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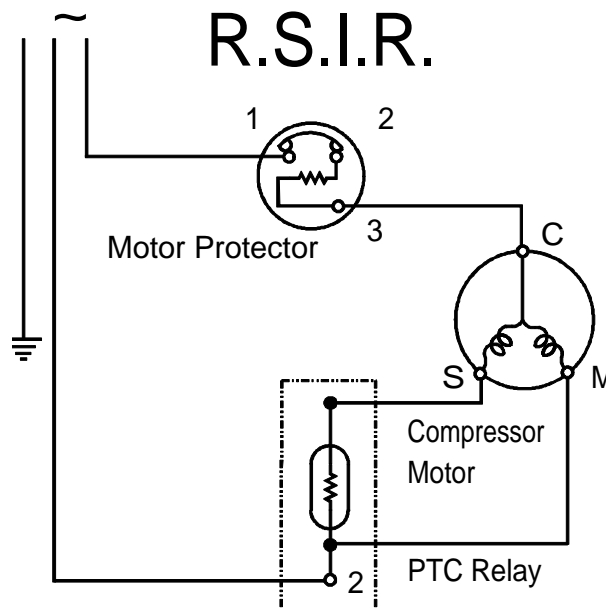
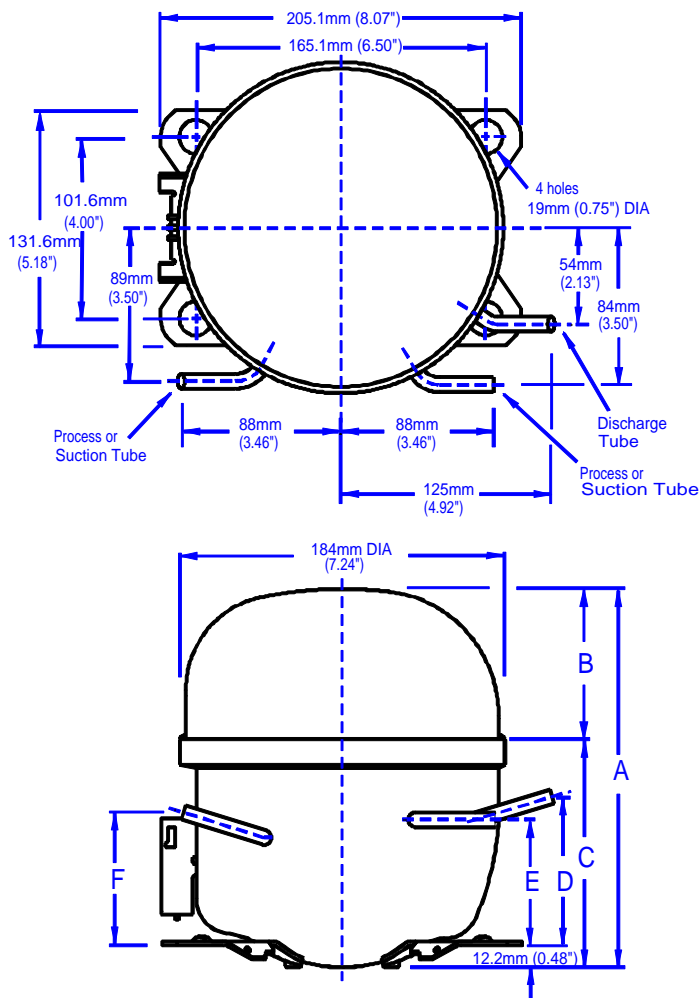
Rev#1-5/9

MATSUSHITA Compressor

MODEL# QA77K19GAU6

Single Phase
R-134a

115 V
60 Hz



Dimensions*

| | mm | inches |
|---|-------|--------|
| A | 199.6 | 7.86 |
| B | 83.8 | 3.30 |
| C | 115.8 | 4.56 |
| D | 77.0 | 3.03 |
| E | 62.2 | 2.45 |
| F | 77.0 | 3.03 |

* All dimensions are for reference only

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| Tubes | Tube O.D. | Wall | Material |
|-----------|-------------------|--------------------|----------|
| Suction | 0.39 in. / 10 mm | 0.035 in. / 0.9 mm | Copper |
| Process | 0.39 in. / 10 mm | 0.035 in. / 0.9 mm | Copper |
| Discharge | 0.33 in. / 8.3 mm | 0.035 in. / 0.9 mm | Copper |

U.L. File # SA 4615
 C.S.A. File #'s LR - 34080
 LR - 36593
 LR - 100738

| General Data | Oil Charge | Net Weight With Oil | Approved Oils | Residual Moisture | Impurities | Displacement |
|--------------|--|---------------------|---------------|-------------------|------------|--------------------------|
| | 250 cc ± 5 cc / 15.3 cu.in. ± 0.3 cu.in. | 20.7 lbs, 9.4 kg | FREOL α 22 | 120 mg max. | 10 mg max. | 7.69 cc. / 0.469 cu. in. |

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 Tel: 201 - 392 - 4249
 Fax: 201 - 392 - 4315

Rev#1-5/9

MATSUSHITA Compressor

MODEL# QA91K22CAU6 (80 μ F Start Cap.)

Single Phase
R-134a

115 V
60 Hz

Voltage Range 103 Volts to 127 Volts @ 60 Hz
Application High Back Pressure
Compressor Cooling Fan Cooling

Refrigerant Control . . . Capillary Tube
Evaporator
Temp. Range 23°F to 59°F / -5°C to 15°C

Rated Performance Data

Capacity 3,175 Btu/h \pm 10% *
E.E.R. 7.40 Btu/Wh \pm 10% *
Current 4.85 Amps *

Nominal Motor Data Motor Input 429 Watts*
 Rated Current . . . 3.99 Amps
 Type CSIR, Current relay

Start Current 23.1 Amps
Coil Resistances Run 1.41 Ohms
@ 68°F (20°C) Start . . . 7.93 Ohms

*Test Conditions for Performance Specifications

Test Oil Freol α 22
Shell Temp 170.0°F / 76.0°C
Condensing Temp 130.0°F / 54.4°C
Evaporating Temp 45.0°F / 7.2°C
Ambient Temp 95.0°F / 35.0°C
Gas Superheat 95.0°F / 35.0°C
Liquid Sub-Cooling 115.0°F / 46.1°C

Electrical Accessories†

Overload Protector
Nominal Operating Characteristics

Model Name MSP24ALZ
Manufacturer Texas Instruments
Temperature To Open: 248°F \pm 9°F / 120°C \pm 5°C
 Close: 142°F \pm 20°F / 61°C \pm 11°C
Trip Current @ 158°F (70°C) 6.7 Amps \pm 7.5%
 @ 77°F (25°C) 17.5 Amps @ 18 sec. max.

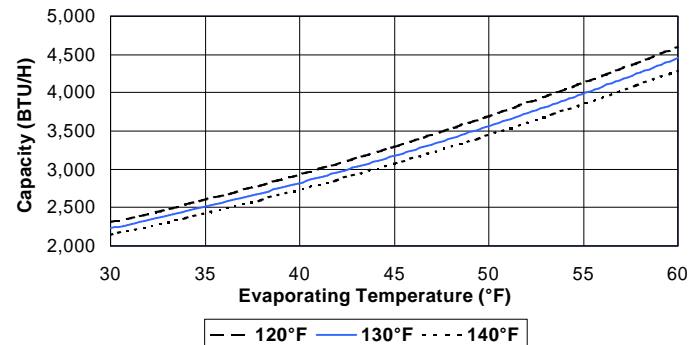
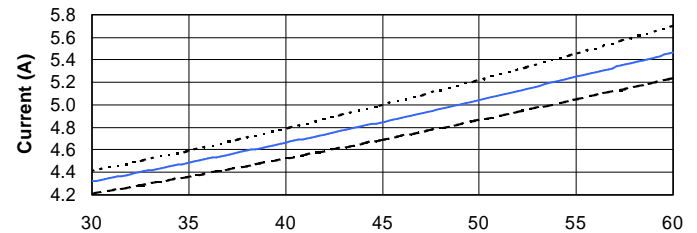
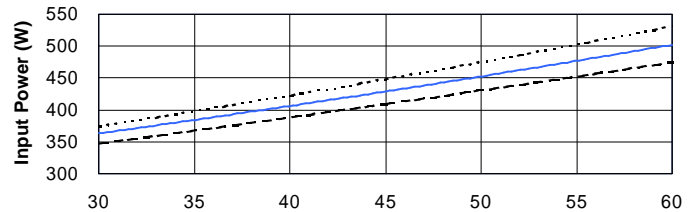
Current Relay Model
Nominal Operating Characteristics

Model Name MM5-D2CH
Manufacturer Matsushita
Pick Up Current 13.2 max. Amps
Drop Out Current 11.1 max. Amps

Start Capacitor 80 μ F 160 V (min.)

†Although these accessories are listed by UL/CSA for use with this compressor, Matsushita assumes no responsibility whatsoever for these or any other components sourced by the refrigeration system manufacturer from third parties.

Performance Curves



9 - Point Data

| Condensing Temp. | Rating | Evaporating Temp. | | |
|------------------|--------|-------------------|-------|-------|
| | | +30°F | +45°F | +59°F |
| 140°F | Btu/h | 2,141 | 3,073 | 4,196 |
| | Watts | 374 | 448 | 525 |
| | Amps | 4.41 | 5.00 | 5.65 |
| | E.E.R. | 5.72 | 6.86 | 7.99 |
| 130°F | Btu/h | 2,229 | 3,175 | 4,357 |
| | Watts | 363 | 429 | 497 |
| | Amps | 4.32 | 4.85 | 5.42 |
| | E.E.R. | 6.14 | 7.40 | 8.77 |
| 120°F | Btu/h | 2,305 | 3,295 | 4,500 |
| | Watts | 347 | 409 | 470 |
| | Amps | 4.21 | 4.69 | 5.20 |
| | E.E.R. | 6.64 | 8.06 | 9.57 |



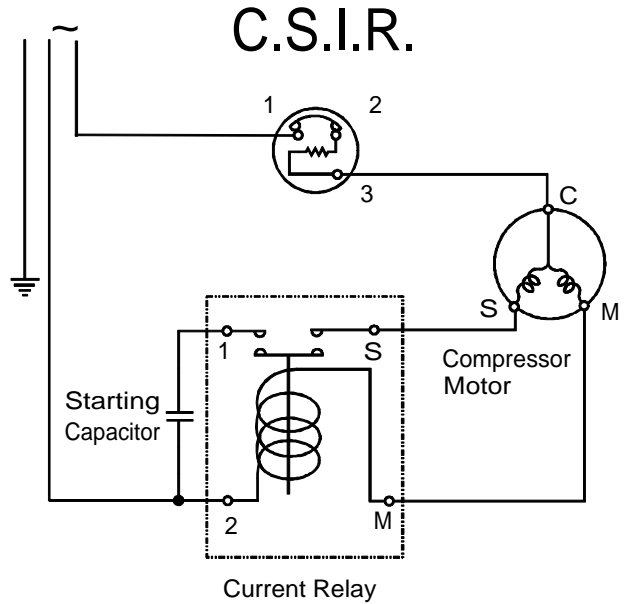
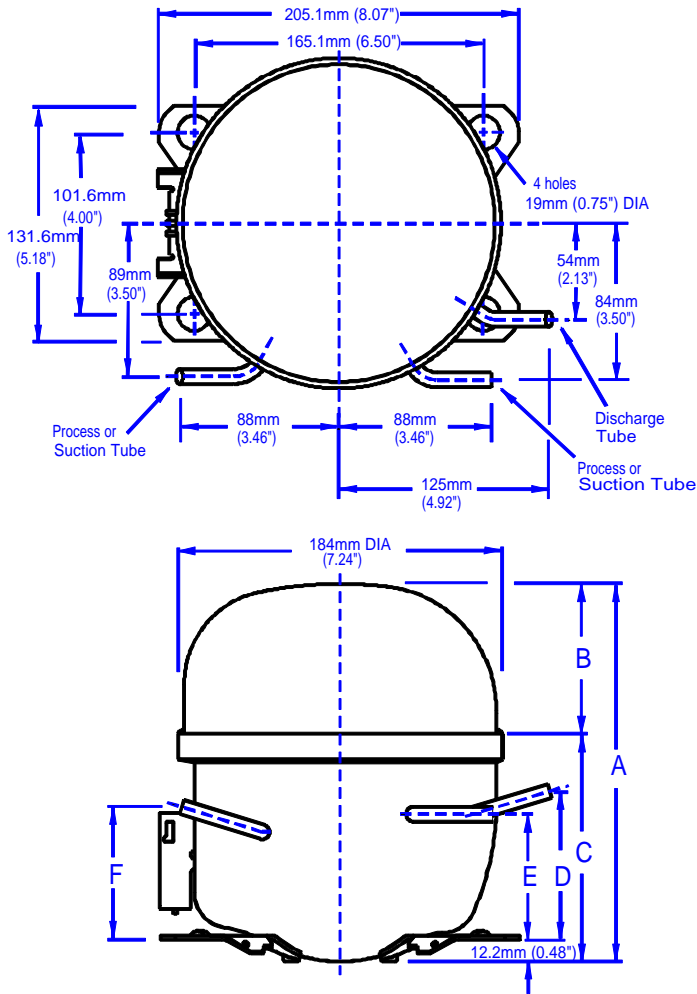
Panasonic Industrial Company
Refrigeration Products Department
Tel: 201 - 392 - 4249
Fax: 201 - 392 - 4315

MATSUSHITA Compressor

MODEL# QA91K22CAU6 (80 μ F Start Cap.)

Single Phase
R-134a

115 V
60 Hz



Dimensions*

| | mm | inches |
|---|-------|--------|
| A | 208.6 | 8.21 |
| B | 92.8 | 3.65 |
| C | 115.8 | 4.56 |
| D | 77.0 | 3.03 |
| E | 62.2 | 2.45 |
| F | 77.0 | 3.03 |

* All dimensions are for reference only

This document sets forth certain operational parameters and conditions for operation of this product. If this product is operated outside of the parameters and conditions stated herein, buyer assumes sole and full responsibility and shall indemnify seller with respect to all product failures and all consequences thereof. Operation of the product outside of the parameters and conditions specified herein shall serve to invalidate all seller warranties, if any, with respect to the product. This document is for reference only. For specifications, please contact Panasonic's engineering department.

| Tubes | Tube O.D. | Wall | Material |
|-----------|-------------------|--------------------|----------|
| Suction | 0.39 in. / 10 mm | 0.035 in. / 0.9 mm | Copper |
| Process | 0.39 in. / 10 mm | 0.035 in. / 0.9 mm | Copper |
| Discharge | 0.33 in. / 8.3 mm | 0.035 in. / 0.9 mm | Copper |

U.L. File # SA 4615

C.S.A. File #'s LR - 34080

LR - 36593

LR - 100738

| General Data | Oil Charge | Oil Charge |
|---------------------|--|------------|
| Oil Charge | 250 cc \pm 5 cc / 15.3 cu.in. \pm 0.3 cu.in. | |
| Net Weight With Oil | 21.4 lbs, 9.7 kg | |
| Approved Oils | FREOL α 22 | |
| Residual Moisture | 120 mg max. | |
| Impurities | 10 mg max. | |
| Displacement | 9.07 cc. / 0.553 cu. in. | |

Panasonic

Panasonic Industrial Company
Refrigeration Products Department
Tel: 201 - 392 - 4249
Fax: 201 - 392 - 4315

Rev#1-5/9

MATSUSHITA Compressor

MODEL# QA91K22GAU6

Single Phase
R-134a

115 V
60 Hz

Voltage Range 103 Volts to 127 Volts @ 60 Hz
Application High Back Pressure
Compressor Cooling Fan Cooling

Refrigerant Control . . . Capillary Tube
Evaporator
Temp. Range 23°F to 59°F / -5°C to 15°C

Rated Performance Data

Capacity 3,175 Btu/h $\pm 10\%$ *
E.E.R. 7.40 Btu/Wh $\pm 10\%$ *
Current 4.85 Amps *

Nominal Motor Data Motor Input 429 Watts*
 Rated Current . . . 3.99 Amps
 Type RSIR, PTC relay

Locked Rotor 24.2 Amps
Start Current 31.3 Amps
Coil Resistances Run 1.41 Ohms
 @ 68°F (20°C) Start . . . 6.90 Ohms

*Test Conditions for Performance Specifications

Test Oil Freol α 22
Shell Temp 170.0°F / 76.0°C
Condensing Temp 130.0°F / 54.4°C
Evaporating Temp 45.0°F / 7.2°C
Ambient Temp 95.0°F / 35.0°C
Gas Superheat 95.0°F / 35.0°C
Liquid Sub-Cooling 115.0°F / 46.1°C

Electrical Accessories†

Overload Protector
Nominal Operating Characteristics

Model Name MSP24ALZ
Manufacturer Texas Instruments
Temperature To Open: 248°F $\pm 9^\circ$ F / 120°C $\pm 5^\circ$ C
 Close: 142°F $\pm 20^\circ$ F / 61°C $\pm 11^\circ$ C
Trip Current @ 158°F (70°C) 6.7 Amps $\pm 7.5\%$
 @ 77°F (25°C) 17.5 Amps @ 18 sec. max.

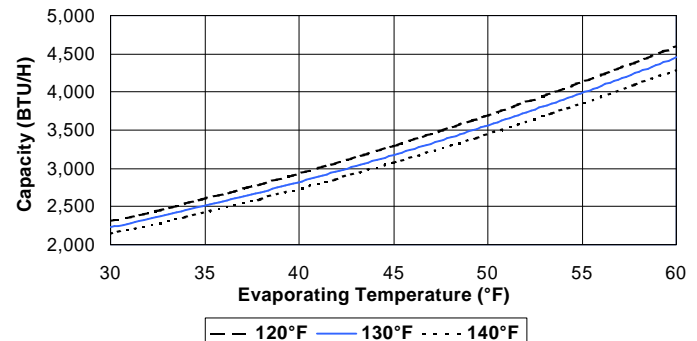
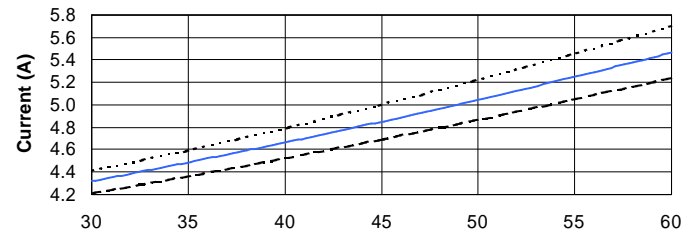
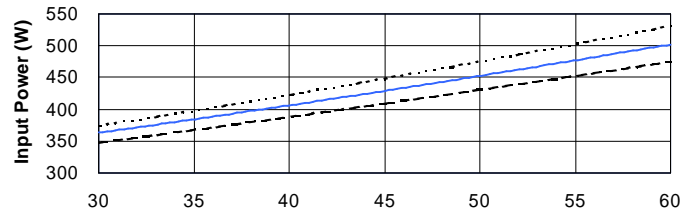
P.T.C. Starting Device
Nominal Operating Characteristics

| Model Name | MM8-5CDP4M7 | PTH7M4R7MC1 | |
|-------------------------|-------------|-------------|---------|
| Manufacturer | Matsushita | Murata Mfg. | |
| Base resistance | | | |
| @ 77°F(25°C) $\pm 20\%$ | 4.7 | 4.7 | Ohms |
| Power Consumption (max) | 4.0 | 3.0 | Watts |
| Operation time | 1.5 to 3.5 | 0.7 to 2.2 | seconds |
| Recovery time (max) | 85 | 70 | seconds |

Run Capacitor — μ F — V (min.)

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Performance Curves



9 - Point Data

| Condensing Temp. | Rating | Evaporating Temp. | | |
|------------------|--------|-------------------|-------|-------|
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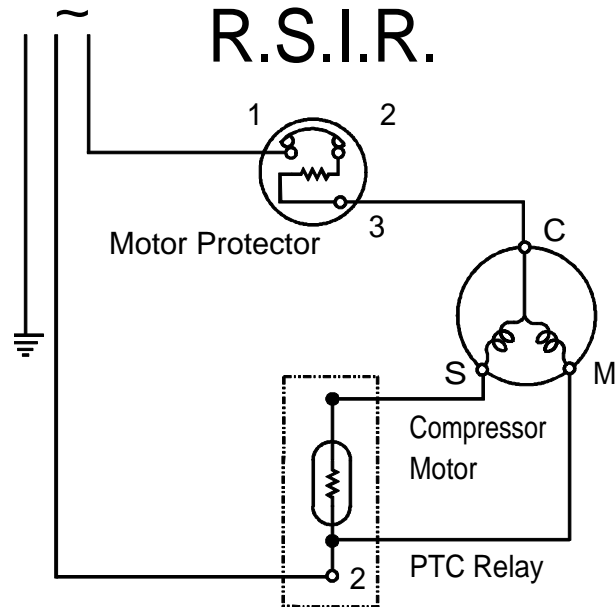
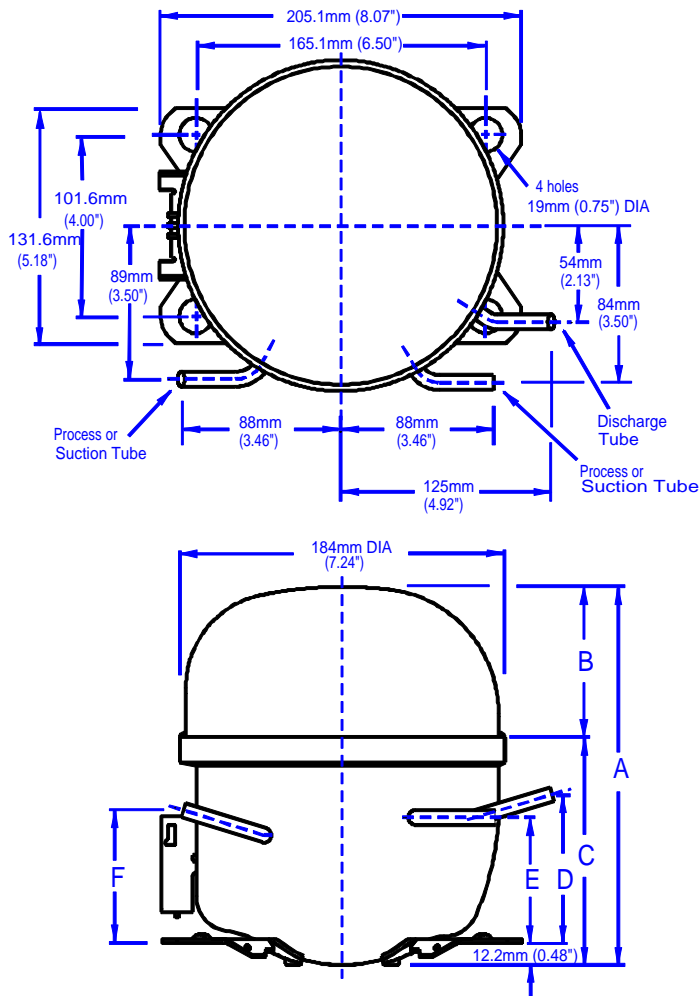
Panasonic Industrial Company
Refrigeration Products Department
Tel: 201 - 392 - 4249
Fax: 201 - 392 - 4315

MATSUSHITA Compressor

MODEL# QA91K22GAU6

Single Phase
R-134a

115 V
60 Hz



Dimensions*

| | mm | inches |
|---|-------|--------|
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| B | 92.8 | 3.65 |
| C | 115.8 | 4.56 |
| D | 77.0 | 3.03 |
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| Discharge | 0.33 in. / 8.3 mm | 0.035 in. / 0.9 mm | Copper |

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| Net Weight With Oil | 21.4 lbs, 9.7 kg |
| Approved Oils | FREOL α 22 |
| Residual Moisture | 120 mg max. |
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| Displacement | 9.07 cc. / 0.553 cu. in. |

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Rev#1-5/9