

## Model

|             |                 |                         |             |                 |
|-------------|-----------------|-------------------------|-------------|-----------------|
| Designation | <b>SCE15MNX</b> | <b>115-127V/60Hz 1~</b> | Sales code: | <b>104H7579</b> |
|-------------|-----------------|-------------------------|-------------|-----------------|

## Compressor design

|                            |                                 |                       |                                  |
|----------------------------|---------------------------------|-----------------------|----------------------------------|
| Oil type                   | Polyolester                     | Refrigerant(s)        | <b>R290</b>                      |
| Oil viscosity              | 32cSt                           | Displacement          | 15,28cm <sup>3</sup> / 0,93cu.in |
| Oil quantity               | 541cm <sup>3</sup> / 18,3fl.oz  | Compressors on pallet | 80                               |
| Refr. charge - tech. limit | 450g / 15,9oz                   |                       |                                  |
| Free gas volume comp.      | 1460cm <sup>3</sup> / 49,4fl.oz |                       |                                  |
| Weight                     | 14,2kg / 31,3lbs                |                       |                                  |
| Motor protection           | external                        |                       |                                  |
| Winding resistance main    | 0,82Ω (at 25°C)                 |                       |                                  |
| Winding resistance aux     | 2,9Ω (at 25°C)                  |                       |                                  |
| Max. winding temp.         | 125°C / 257°F                   |                       |                                  |
| Max. discharge temp.       | 135°C / 275°F                   |                       |                                  |



## General - Configurations with SCE15MNX

|                        | <b>Conf. 1</b>                                                    | <b>Conf. 2</b> |
|------------------------|-------------------------------------------------------------------|----------------|
| Motor configuration    | CSCR                                                              | CSIR           |
| Power supply (nominal) | 115V/60Hz                                                         | 115V/60Hz      |
| Number of phases       | 1                                                                 | 1              |
| Voltage range          | 103-127V                                                          | 103-127V       |
| Approvals              | UL                                                                | UL             |
| Starting torque        | HST                                                               | HST            |
| Note                   | Protector and cover are included and pre-assembled to compressor. |                |

## Applications with SCE15MNX

|                         | <b>Conf. 1</b> | <b>Conf. 2</b> |
|-------------------------|----------------|----------------|
| Refrigerant             | R290           | R290           |
| Application             | MBP            | MBP            |
| System cooling          | fan 3m/s       | fan 3m/s       |
| Hot gas defrost         | OK             | OK             |
| Long interval pull down | OK             | OK             |

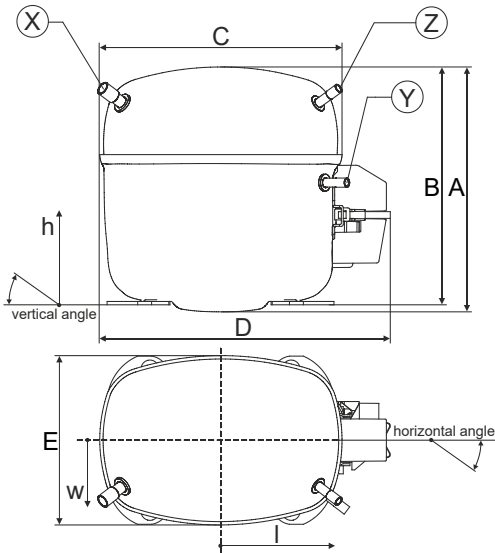
## Electrical data - Configurations with SCE15MNX

|                                    | <b>Conf. 1</b> | <b>Conf. 2</b> |
|------------------------------------|----------------|----------------|
| Starting device type               | relay          | relay          |
| Run capacitor                      | 23,5μF         | -/-            |
| Start capacitor                    | 280μF          | 280μF          |
| LRA (locked rotor amps / 4s/ U(N)) | 44,12A         | 43,13A         |
| RLA (rated load amps / 1s/ U(N))   | 7,48A          | 8,3A           |
| Cut in current (U(N))              | 44,12A         | 43,13A         |

|             |          |                  |                      |
|-------------|----------|------------------|----------------------|
| Model       |          |                  |                      |
| Designation | SCE15MNX | 115-127V/60Hz 1~ | Sales code: 104H7579 |

Compressor dimensions

|                            |                   |                 |              |
|----------------------------|-------------------|-----------------|--------------|
| Housing                    | A Height          | 219mm / 8,62in  |              |
|                            | B Height          | 213mm / 8,39in  |              |
|                            | C Length shell    | 218mm / 8,58in  |              |
|                            | D Length w. cover | 255mm / 10,04in |              |
|                            | E Width           | 151mm / 5,94in  |              |
|                            |                   |                 |              |
| Connectors                 | Suction<br>X      | Discharge<br>Y  | Process<br>Z |
| Diameter [mm]              | øi 9,54-9,72      | øi 6,41-6,59    | øi 6,41-6,59 |
| (i:inside, o:outside) [in] | øi 0,38-0,38      | øi 0,25-0,26    | øi 0,25-0,26 |
| Material                   | copper            | copper          | copper       |
| Horizontal angle ±2°       | 37°               | 37°             | 143°         |
| Vertical angle ±2°         | 30°               | 0°              | 150°         |
| Position l/h/w [mm]        | 107/193/55        | 115/110/63      | -107/193/55  |
| [in]                       | 4,2/7,6/2,2       | 4,5/4,3/2,5     | -4,2/7,6/2,2 |
| Straight tube l.           | [mm]              | 12              | 12           |
|                            | [in]              | 0,5             | 0,5          |



Compressor fixation

|  |                         |              |
|--|-------------------------|--------------|
|  | Baseplate [mm] [inch]   |              |
|  | BI                      | 204 8.03     |
|  | Bw                      | 150 5.9      |
|  | øE                      | ø 9.7 ø 0.38 |
|  | Large holes [mm] [inch] |              |
|  | LI                      | 165 6.5      |
|  | Lw                      | 101.6 4      |
|  | øL                      | ø 19 ø 0.75  |
|  | Small holes [mm] [inch] |              |
|  | SI                      | 170 6.7      |
|  | Bolt joint              |              |
|  |                         |              |
|  | Snap-on                 |              |
|  |                         |              |

|                            |           |            |
|----------------------------|-----------|------------|
| Mounting accessories       | one comp. | multi pack |
| Bolt joint   M6   ø16mm    | 118-1917  | 118-1918   |
| Bolt joint   ø1/4"   ø16mm | 118-1946  |            |
| Bolt joint   ø1/4"   ø19mm | 118-1949  |            |
| Snap-on   ø7,3   ø16mm     | 118-1947  | 118-1919   |

Application notes

Provision for PE Grounding is located at the PE Stamp on the compressor

## Model

|             |                 |                  |                |             |                 |
|-------------|-----------------|------------------|----------------|-------------|-----------------|
| Designation | <b>SCE15MNX</b> | <b>115V/60Hz</b> | <b>Conf. 1</b> | Sales code: | <b>104H7579</b> |
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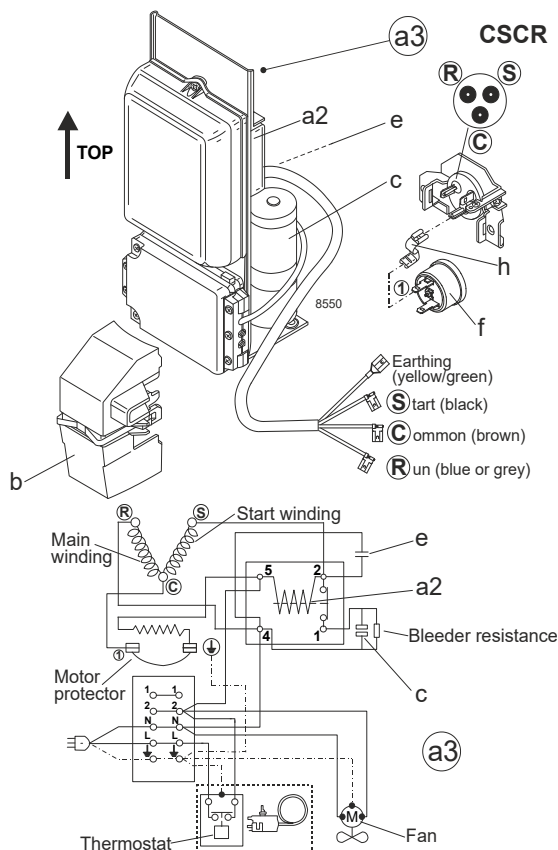
## Configuration

|                        |              |
|------------------------|--------------|
| Motor configuration    | CSCR         |
| Power supply (nominal) | 115V/60Hz 1~ |
| Refrigerant            | R290         |
| Application            | MBP          |
| Voltage range          | 103-127V     |
| Starting torque        | HST          |
| Approvals              | UL           |

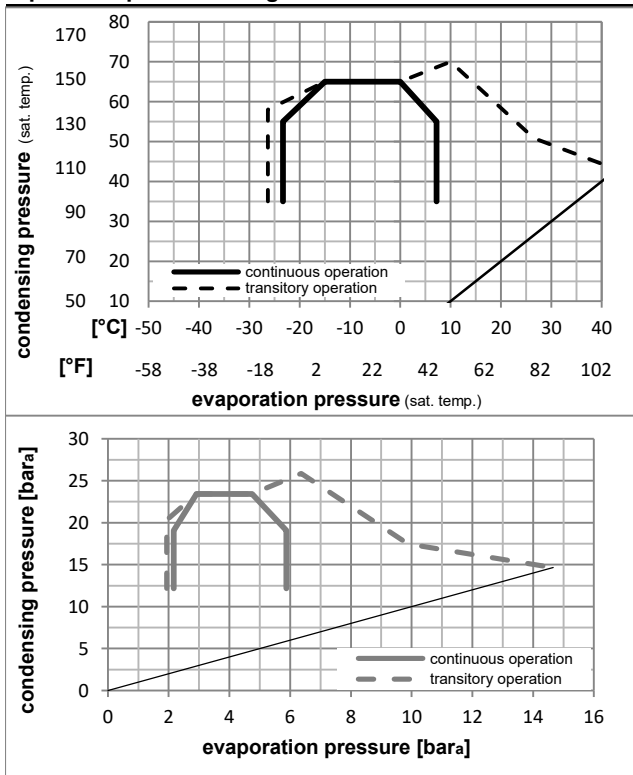
## Electrical accessories / wiring diagram

## Ambient/ machine room temperatures minimum /maximum

|                                 |                        |
|---------------------------------|------------------------|
| Ambient temperature range:      | 10 - 43°C / 50 - 110°F |
| Machine room temperature range: | 10 - 48°C / 50 - 119°F |
| Compressor cooling:             | fan 3m/s               |



## Operation pressure range



## Components (protector (f)+ holder (h)+ cover (b): incl. and pre assembl.)

|    |                           |          |
|----|---------------------------|----------|
| a3 | SC starter kit (550mm)    | 117-7801 |
| h  | protector holder          | 117U0439 |
| f  | ext. protector (T1069/46) | 117U3216 |
| b  | plastic cover + clamp     | 117U1021 |

## Alternative comp.

|    |                                |          |
|----|--------------------------------|----------|
| a2 | potential relay (RVA 7AA3R)    | 117-7441 |
| e  | run capacitor (23,5µF, 6.3mm)  | 117-7133 |
| c  | start capacitor (280µF, 6.3mm) | 117U5350 |

## Model

Designation **SCE15MNX 115V/60Hz** Conf. 1 Sales code: **104H7579**

## Optimization + standard conditions

R290, 115V/60Hz, CSCR, fan 3m/s, UL

| Evaporating pressure (saturation temperature) |  |  |  |  | Condensing pressure (saturation temperature) |  |  |  |  |  | Power consumption   |  |  |  |
|-----------------------------------------------|--|--|--|--|----------------------------------------------|--|--|--|--|--|---------------------|--|--|--|
|                                               |  |  |  |  |                                              |  |  |  |  |  | Current consumption |  |  |  |
|                                               |  |  |  |  |                                              |  |  |  |  |  | Ref. mass flow      |  |  |  |
|                                               |  |  |  |  |                                              |  |  |  |  |  |                     |  |  |  |
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## Model

|             |                 |                  |                |             |                 |
|-------------|-----------------|------------------|----------------|-------------|-----------------|
| Designation | <b>SCE15MNX</b> | <b>115V/60Hz</b> | <b>Conf. 2</b> | Sales code: | <b>104H7579</b> |
|-------------|-----------------|------------------|----------------|-------------|-----------------|

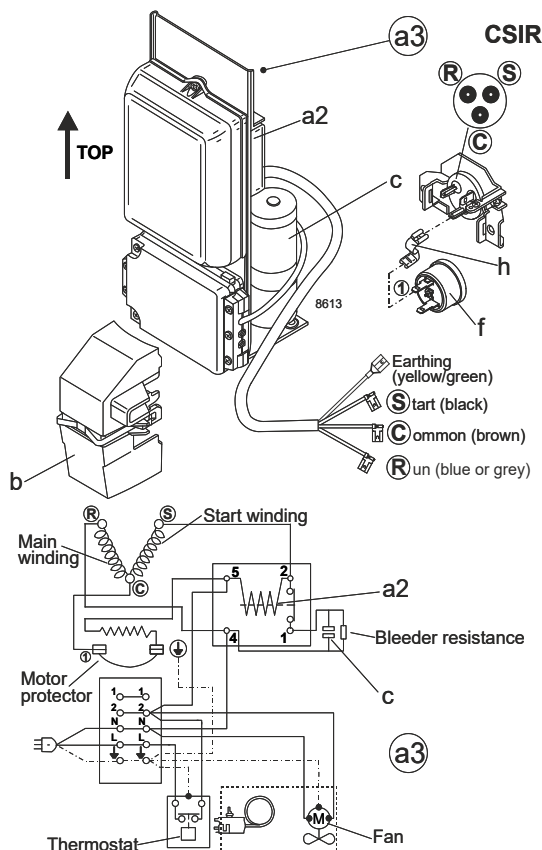
## Configuration

|                        |              |
|------------------------|--------------|
| Motor configuration    | CSIR         |
| Power supply (nominal) | 115V/60Hz 1~ |
| Refrigerant            | R290         |
| Application            | MBP          |
| Voltage range          | 103-127V     |
| Starting torque        | HST          |
| Approvals              | UL           |

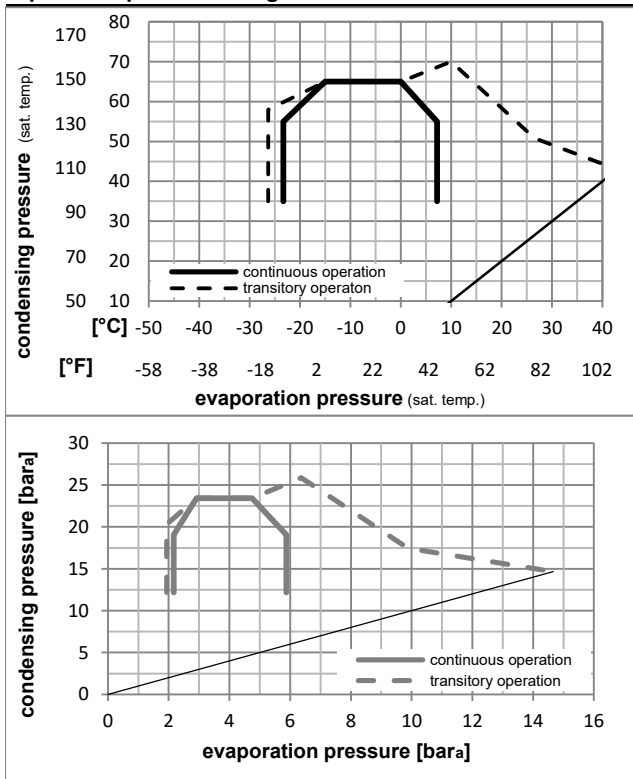
## Electrical accessories / wiring diagram

## Ambient/ machine room temperatures minimum /maximum

|                                 |                        |
|---------------------------------|------------------------|
| Ambient temperature range:      | 10 - 43°C / 50 - 110°F |
| Machine room temperature range: | 10 - 48°C / 50 - 119°F |
| Compressor cooling:             | fan 3m/s               |



## Operation pressure range



Components (protector (f)+ holder (h)+ cover (b): incl. and pre assembl.)

|    |                           |          |
|----|---------------------------|----------|
| a3 | SC starter kit (550mm)    | 117-7802 |
| h  | protector holder          | 117U0439 |
| f  | ext. protector (T1069/46) | 117U3216 |
| b  | plastic cover + clamp     | 117U1021 |

## Alternative comp.

|    |                                |          |
|----|--------------------------------|----------|
| a3 | SC starter kit (550mm)         | 117-7822 |
| a2 | potential relay (RVA 7AA3R)    | 117-7441 |
| c  | start capacitor (280μF, 6.3mm) | 117U5350 |

## Model

Designation **SCE15MNX 115V/60Hz** Conf. 2 Sales code: **104H7579**

## Optimization + standard conditions

R290, 115V/60Hz, CSIR, fan 3m/s, UL

| Evaporating pressure (saturation temperature) |  |  |  |  | Condensing pressure (saturation temperature) |  |  |  |  |  | Power consumption   |  |  |  |
|-----------------------------------------------|--|--|--|--|----------------------------------------------|--|--|--|--|--|---------------------|--|--|--|
|                                               |  |  |  |  |                                              |  |  |  |  |  | Current consumption |  |  |  |
|                                               |  |  |  |  |                                              |  |  |  |  |  | Ref. mass flow      |  |  |  |
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