

Single Pack SC15/15G 220-240V 50Hz CSIR

Single pack code number: **195B3082**

| Position | Title | Code | Amount |
|----------|---|----------|--------|
| 1 | Compressor SC15/15G | 104G8580 | 1 |
| 2 | Starting relay | 117U6005 | 2 |
| 3 | Starting capacitor (80 μ F 220V, 6.3mm) | 117U5017 | 2 |
| 4 | Cover | 103N2009 | 2 |
| 5 | Cord relief | 103N1004 | 2 |
| 6 | Bolt joint for one compressor M6 \varnothing 16mm | 118-1917 | 2 |

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Model

| | | | | |
|-------------|-----------------|------------------|-------------|-----------------|
| Designation | SC15/15G | 220-240V/50Hz 1~ | Sales code: | 104G8580 |
|-------------|-----------------|------------------|-------------|-----------------|

Compressor design

| | | | |
|----------------------------|---------------------------------|-----------------------|----------------------------------|
| Oil type | Polyolester | Refrigerant(s) | R134a |
| Oil viscosity | 22cST | Displacement | 30,56cm ³ / 1,86cu.in |
| Oil quantity | 1238cm ³ / 41,9fl.oz | Compressors on pallet | 18 |
| Refr. charge - tech. limit | 2200g / 77,6oz | | |
| Free gas volume comp. | 2820cm ³ / 95,4fl.oz | | |
| Weight | 28kg / 61,7lbs | | |
| Motor protection | 1# internal | | |
| Winding resistance main | 5,13Ω (at 25°C) | | |
| Winding resistance aux | 13,51Ω (at 25°C) | | |
| Max. winding temp. | 125°C / 257°F | | |
| Max. discharge temp. | 135°C / 275°F | | |



General - Configurations with SC15/15G

| | |
|------------------------|----------------|
| | Conf. 1 |
| Motorconfiguration | CSIR |
| Power supply (nominal) | 220-240V/50Hz |
| Number of phases | 1 |
| Voltage range | 187-254V |
| Approvals | CCC, VDE |
| Starting torque | HST |
| Note | - / - |

Applications with SC15/15G

| | |
|-------------------------|----------------|
| | Conf. 1 |
| Refrigerant | R134a |
| Application | LBP+MBP+HBP |
| System cooling | fan 3m/s |
| Hot gas defrost | OK |
| Long interval pull down | OK |

Electrical data - Configurations with SC15/15G

| | |
|------------------------------|----------------|
| | Conf. 1 |
| Starting device type | relay |
| Run capacitor | -/- |
| Start capacitor | 80μF |
| LRA (locked rotor amps / 4s) | 2x 16,2A |
| RLA (rated load amps / 1s) | 2x 3,1A |
| Cut in current | 2x 16,2A |

Model

Designation

SC15/15G

220-240V/50Hz 1~

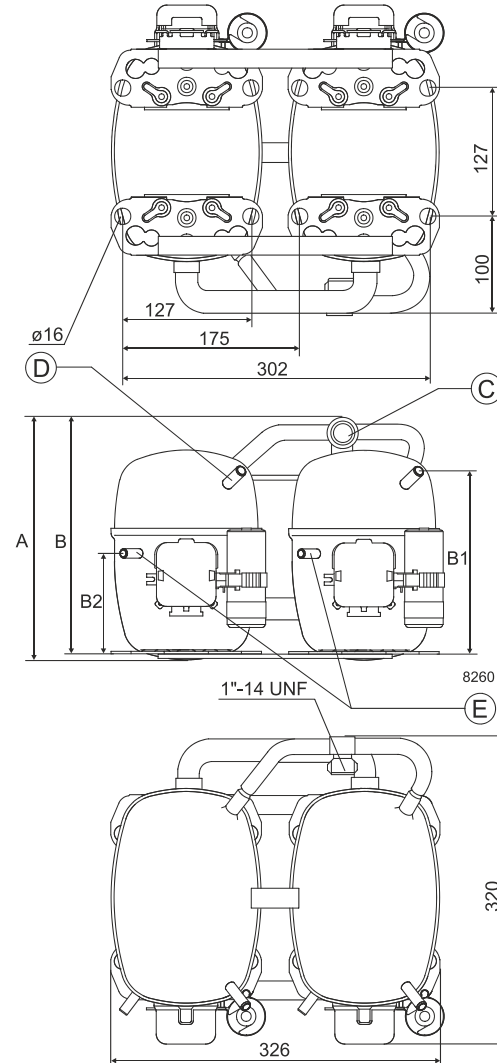
Sales code:

104G8580

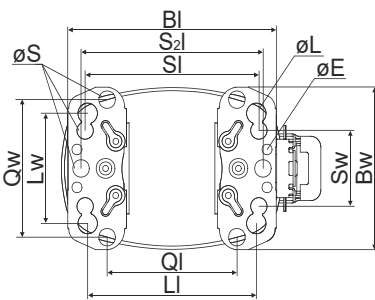
Compressor dimensions

| Housing | A Height | 249mm / 9,8in |
|---------|----------|----------------|
| | B Height | 244mm / 9,61in |
| | B1 | 183mm / 7,2in |
| | B2 | 100mm / 3,94in |

| Connectors | | Suction | Discharge | Process |
|-----------------------|------|----------------|--------------|--------------|
| | | C | E | D |
| Diameter | [mm] | øi 15,21-15,37 | øi 6,11-6,29 | øi 6,11-6,29 |
| (i:inside, o:outside) | [in] | øi 0,6-0,61 | øi 0,24-0,25 | øi 0,24-0,25 |
| Material | | steel | copper | copper |
| Horizontal angle | ±2° | 0° | 37° | 37° |
| Vertical angle | ±2° | 0° | 0° | 0° |
| Position l/h/w | [mm] | 0/0/0 | 0/0/0 | 0/0/0 |
| | [in] | 0/0/0 | 0/0/0 | 0/0/0 |
| Straight tube l. | [mm] | 10 | 12 | 12 |
| | [in] | 0,4 | 0,5 | 0,5 |



Compressor fixation



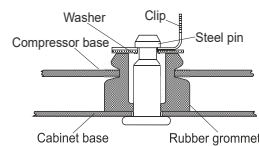
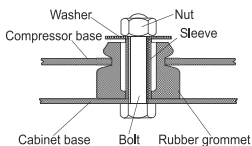
| Baseplate | [mm] | [inch] |
|-------------|-------|--------|
| BI | 204 | 8.03 |
| Bw | 150 | 5.9 |
| øE | ø 9.7 | ø 0.38 |
| Large holes | | |
| LI | 165 | 6.5 |
| Lw | 101.6 | 4 |
| øL | ø 19 | ø 0.75 |
| Small holes | | |
| SI | 170 | 6.7 |
| Sw | 70 | 2.76 |
| øS | ø 16 | ø 0.63 |
| QI | 127 | 5 |
| Qw | 127 | 5 |

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 |

Bolt joint

Snap-on



Application notes

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

Twin should be used with a time-delay relay

Model

| | | | | | |
|-------------|-----------------|----------------------|----------------|-------------|-----------------|
| Designation | SC15/15G | 220-240V/50Hz | Conf. 1 | Sales code: | 104G8580 |
|-------------|-----------------|----------------------|----------------|-------------|-----------------|

Configuration

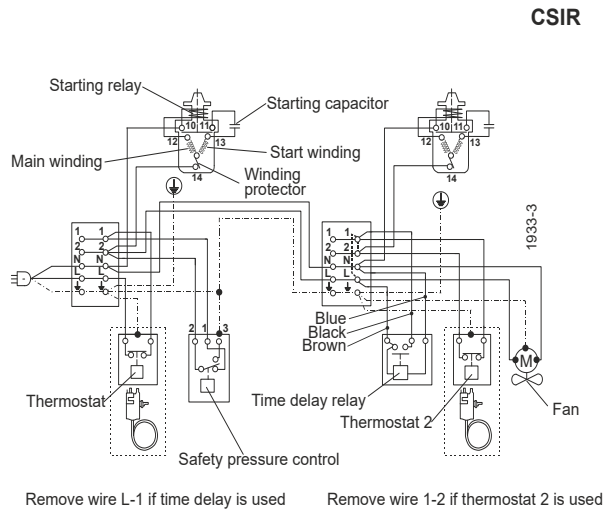
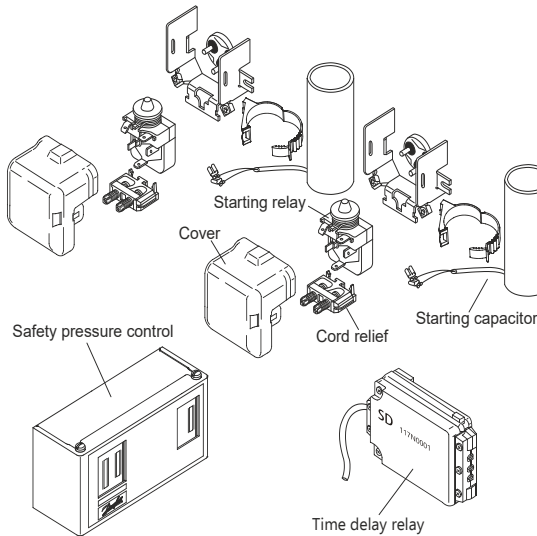
| | |
|------------------------|------------------|
| Motorconfiguration | CSIR |
| Power supply (nominal) | 220-240V/50Hz 1~ |
| Refrigerant | R134a |
| Application | LBP+MBP+HBP |
| Voltage range | 187-254V |
| Starting torque | HST |
| Approvals | CCC, VDE, |

Ambient/ machine room temperatures minimum /maximum

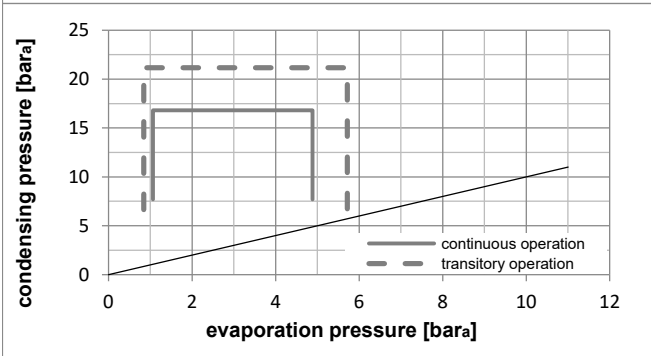
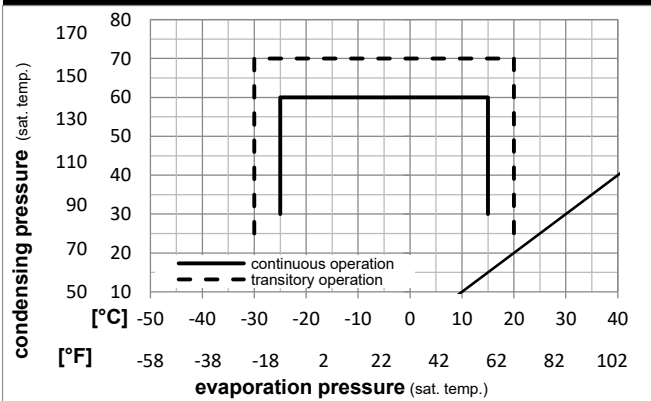
| | |
|---------------------------------|------------------------|
| Ambient temperature range: | 10 - 43°C / 50 - 110°F |
| Machine room temperature range: | 10 - 48°C / 50 - 119°F |
| Compressor cooling: | fan 3m/s |

Operation Limits

Electrical accessories / wiring diagram

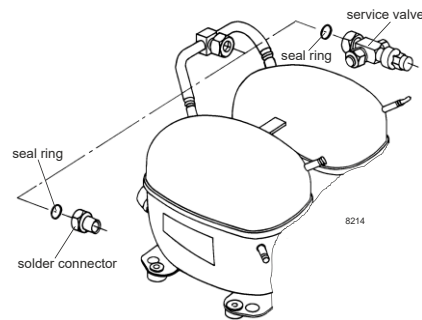


Operation pressure range



Components

| | | |
|----|--|----------|
| a2 | relay | 117U6005 |
| c | start capacitor (80µF) | 117U5017 |
| d | cord relief | 103N1004 |
| b | plastic cover | 103N2009 |
| . | Check valve (to be used with time-delay relay) | 020-1014 |
| . | Service valve 12mm | 118-7350 |
| . | Solder connector (alternative) 12 mm | 104B0584 |
| . | Seal ring for service valve and solder conn. | 118-3638 |



Model

Designation **SC15/15G** **220-240V/50Hz** Conf. 1 Sales code: **104G8580**

Optimization + standard conditions

R134a, 220V/50Hz, CSIR, fan 3m/s, CCC, VDE

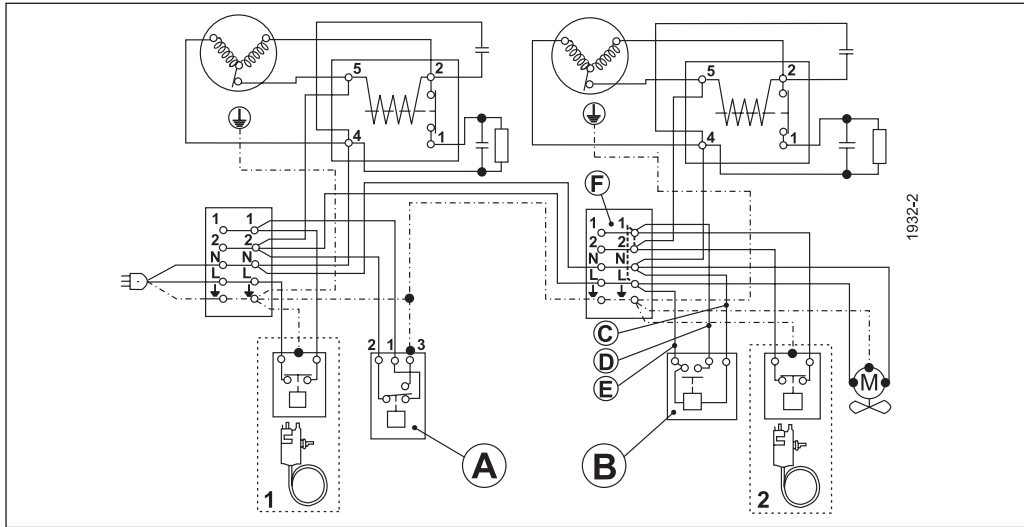
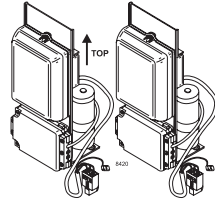
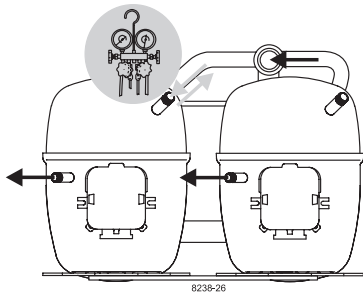
| | | Evaporating pressure (saturation temperature) | | | | Condensing pressure (saturation temperature) | | | Return gas temp. | | Liquid temp. | | Cooling capacity | | | COP | EER | Power consumption | | | ASHRAE LBP |
|------|------|---|------|------|------|--|---------|----------|------------------|----------|--------------|--------|------------------|----------------|--|-----|-----|-------------------|--|--|------------|
| | | pe | pc | RGT | Tliq | [W] | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [kcal/Wh] | P1 | I | Ref. mass flow | | | | | | | |
| [°C] | [°F] | [°C] | [°F] | [°C] | [°C] | | | | | | | [W] | [A] | [kg/h] | | | | | | | |
| -23 | -10 | 54 | 130 | 32 | 32 | 518,0 | 1769 | 445,8 | 1,00 | 3,43 | 0,86 | 516,3 | 4,54 | 10,06 | | | | | | | |
| -7 | 20 | 54 | 130 | 35 | 46 | 1493,1 | 5099 | 1285,0 | 1,57 | 5,35 | 1,35 | 953,8 | 5,82 | 32,58 | | | | | | | |
| 7,2 | 45 | 54 | 130 | 35 | 46 | 2683,6 | 9165 | 2309,5 | 2,20 | 7,50 | 1,89 | 1221,3 | 7,01 | 59,53 | | | | | | | |
| -35 | -31 | 40 | 104 | 20 | 40 | 191,5 | 654 | 164,8 | 0,80 | 2,73 | 0,69 | 239,9 | 3,89 | 4,20 | | | | | | | |
| -10 | 14 | 45 | 113 | 20 | 45 | 1301,4 | 4445 | 1120,0 | 1,58 | 5,41 | 1,36 | 821,4 | 5,31 | 30,46 | | | | | | | |
| 5 | 41 | 50 | 122 | 20 | 50 | 2303,1 | 7865 | 1982,1 | 2,01 | 6,87 | 1,73 | 1145,2 | 6,60 | 58,03 | | | | | | | |

Performance tables

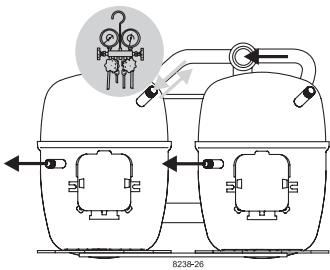
R134a, 220V/50Hz, CSIR, fan 3m/s, CCC, VDE

| | pe | | Cooling capacity | | | COP | EER | P1 | | | I | m |
|------------------|------|------|------------------|---------|----------|-------|----------|-----------|--------|------|--------|---|
| | [°C] | [°F] | [W] | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [kcal/Wh] | [W] | [A] | [kg/h] | |
| [°C / °F] | -25 | -13 | 521,5 | 1781 | 448,8 | 1,10 | 3,76 | 0,95 | 473,1 | 4,37 | 11,30 | |
| cond. pressure | -20 | -4 | 765,6 | 2615 | 658,9 | 1,29 | 4,39 | 1,11 | 595,7 | 4,67 | 16,63 | |
| pc= 45/113 | -10 | 14 | 1350,2 | 4611 | 1162,0 | 1,64 | 5,61 | 1,41 | 821,4 | 5,31 | 29,55 | |
| return gas temp. | -5 | 23 | 1706,5 | 5828 | 1468,6 | 1,85 | 6,31 | 1,59 | 923,7 | 5,66 | 37,53 | |
| RGT= 32/90 | 0 | 32 | 2116,0 | 7227 | 1821,1 | 2,08 | 7,10 | 1,79 | 1018,5 | 6,02 | 46,79 | |
| liquid temp | 5 | 41 | 2586,7 | 8834 | 2226,2 | 2,34 | 7,99 | 2,01 | 1105,4 | 6,39 | 57,59 | |
| Tliq= 45/113 | 15 | 59 | 3743,5 | 12785 | 3221,7 | 2,99 | 10,20 | 2,57 | 1253,8 | 7,17 | 84,79 | |
| [°C / °F] | -25 | -13 | 328,4 | 1122 | 282,6 | 0,71 | 2,41 | 0,61 | 465,4 | 4,43 | 7,85 | |
| cond. pressure | -20 | -4 | 580,6 | 1983 | 499,6 | 0,95 | 3,23 | 0,81 | 614,2 | 4,79 | 13,92 | |
| pc= 55/131 | -10 | 14 | 1136,8 | 3882 | 978,3 | 1,29 | 4,42 | 1,11 | 879,3 | 5,57 | 27,49 | |
| return gas temp | -5 | 23 | 1456,8 | 4975 | 1253,7 | 1,46 | 5,00 | 1,26 | 994,9 | 5,98 | 35,41 | |
| RGT= 32/90 | 0 | 32 | 1815,2 | 6199 | 1562,2 | 1,65 | 5,64 | 1,42 | 1098,6 | 6,40 | 44,40 | |
| liquid temp | 5 | 41 | 2220,0 | 7582 | 1910,5 | 1,87 | 6,37 | 1,61 | 1190,1 | 6,84 | 54,70 | |
| Tliq= 55/131 | 15 | 59 | 3200,6 | 10931 | 2754,5 | 2,40 | 8,19 | 2,06 | 1334,7 | 7,75 | 80,39 | |

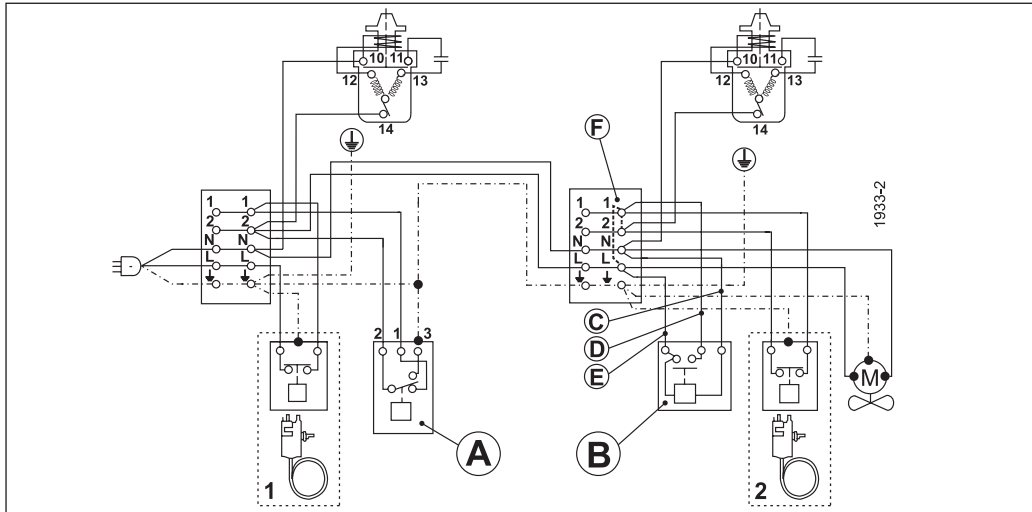
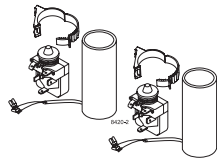
SC Twin Compressors



| | A | B | C | D | E | F | |
|------------|---------------------------------|-------------------------|-------|---------|------------|---|---|
| ENGLISH | Safety pressure control | Time delay relay | Blue | Black | Brown | Remove wire L-1 if time delay is used | Remove wire 1-2 if thermostat 2 is used |
| 中文 | 安全压力控制 | 延时继电器 | 蓝 | 黑 | 棕 | 若延时继电器使用，线L-1不使用 | 若温控器2使用，线1-2不使用 |
| Русский | Предохранительное реле давления | Реле задержки времени | Синий | Чёрный | Коричневый | Отсоедините провод L-1, если используется реле задержки времени | Отсоедините провод 1-2, если используется термостат 2 |
| DEUTSCH | Sicherheitsdruckschalter | Zeitrelais (verzögernd) | Blau | Schwarz | Braun | Bei Benutzung der Anlaßverzögerung Brücke L-1 entfernen | Bei Benutzung von Thermostat 2 Brücke 1-2 entfernen |
| FRANÇAIS | Pressostat | Relais de temporisation | Bleu | Noir | Marron | Supprimer la connection L-1 si le relais de temporisation est utilisé | Supprimer la connection 1-2 si thermostat 2 est utilisé |
| ESPAÑOL | Presostato de seguridad | Relé de retardo | Azul | Negro | Marrón | Quitar cable L-1, si se utiliza un relé de retardo | Quitar cable 1-2, si se utiliza el termostato 2 |
| ITALIANO | Pressostato | Relè di ritardo avviam. | Blu | Nero | Marrone | Eliminare il cavo L-1 se è utilizzato il ritardatore | Eliminare il cavo 1-2 se è utilizzato il termostato 2 |
| NEDERLANDS | Pressostaat | Tijdvertraging-relais | Blauw | Zwart | Bruin | Verwijder draad L-1 indien tijdvertraging wordt toegepast | Verwijder draad 1-2 indien thermostaat wordt toegepast |
| DANSK | Sikkerhedspressostat | Tidsforsinkelsesrelæ | Blå | Sort | Brun | Ved tidsforsinkelse fjernes ledning L-1 | Ved termostat 2 fjernes ledning 1-2 |
| SVENSKA | Säkerhetspressostat | Tidsfördröjningsrelä | Blå | Svart | Brun | Vid anslutning av tidfördröjningsrelä avlägsnas bygling L-1 | Vid anslutning av termostat 2 avlägsnas bygling 1-2 |



SC Twin Compressors



| | A | B | C | D | E | F | |
|------------|---------------------------------|-------------------------|-------|---------|------------|---|---|
| ENGLISH | Safety pressure control | Time delay relay | Blue | Black | Brown | Remove wire L-1 if time delay is used | Remove wire 1-2 if thermostat 2 is used |
| 中文 | 安全压力控制 | 延时继电器 | 蓝 | 黑 | 棕 | 若延时继电器使用, 线L-1不使用 | 若温控器2使用, 线1-2不使用 |
| Русский | Предохранительное реле давления | Реле задержки времени | Синий | Чёрный | Коричневый | Отсоедините провод L-1, если используется реле задержки времени | Отсоедините провод 1-2, если используется термостат 2 |
| DEUTSCH | Sicherheitsdruckschalter | Zeitrelais (verzögernd) | Blau | Schwarz | Braun | Bei Benutzung der Anlaufverzögerung Brücke L-1 entfernen | Bei Benutzung von Thermostat 2 Brücke 1-2 entfernen |
| FRANÇAIS | Pressostat | Relais de temporisation | Bleu | Noir | Marron | Supprimer la connection L-1 si le relais de temporisation est utilisé | Supprimer la connection 1-2 si thermostat 2 est utilisé |
| ESPAÑOL | Presostato de seguridad | Relé de retardo | Azul | Negro | Marrón | Quitar cable L-1, si se utiliza un relé de retardo | Quitar cable 1-2, si se utiliza el termostato 2 |
| ITALIANO | Pressostato | Relè di ritardo avviam. | Blu | Nero | Marrone | Eliminare il cavo L-1 se è utilizzato il ritardatore | Eliminare il cavo 1-2 se è utilizzato il termostato 2 |
| NEDERLANDS | Pressostaat | Tijdvertraging-relais | Blauw | Zwart | Bruin | Verwijder draad L-1 indien tijdvertraging wordt toegepast | Verwijder draad 1-2 indien thermostaat wordt toegepast |
| DANSK | Sikkerhedspressostat | Tidsforsinkelsesrelæ | Blå | Sort | Brun | Ved tidsforsinkelse fjernes ledning L-1 | Ved termostat 2 fjernes ledning 1-2 |
| SVENSKA | Säkerhetspressostat | Tidsfördröjningsrelä | Blå | Svart | Brun | Vid anslutning av tidsfördröjningsrelä avlägsnas bygling L-1 | Vid anslutning av termostat 2 avlägsnas bygling 1-2 |

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