



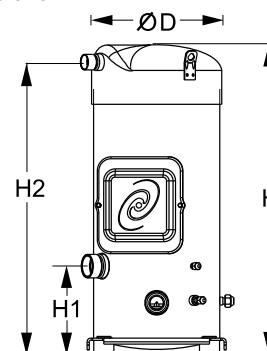
Datasheets

Performer[®] scroll compressors SM / SY / SZ / SH



General Characteristics

| Model number (on compressor nameplate) | SZ160T4RC | SZ160T4CC |
|---|---|----------------|
| Code number for Singlepack* | SZ160-4RAI | SZ160-4CBI |
| Code number for Industrial pack** | SZ160-4RAM | SZ160-4CBM |
| Drawing number | 8551120b | 8551055c |
| Suction and discharge connections | Rotolock | Brazed |
| Suction connection | 2-1/4" Rotolock | 1-5/8" ODF |
| Discharge connection | 1-3/4" Rotolock | 1-1/8" ODF |
| Suction connection with supplied sleeve | 1-3/8" ODF | |
| Discharge connection with supplied sleeve | 7/8" ODF | |
| Oil sight glass | Threaded | Threaded |
| Oil equalisation connection | 3/8" flare SAE | 3/8" flare SAE |
| Oil drain connection | 1/4" flare | 1/4" flare |
| LP gauge port | Schrader | Schrader |
| IPR valve | None | None |
| Swept volume | 216,6 cm ³ /rev | |
| Displacement @ Nominal speed | 37,7 m ³ /h @ 2900 rpm - 45,5 m ³ /h @ 3500 rpm | |
| Net weight | 90 kg | |
| Oil charge | 4 litre, POE - 160SZ | |
| Maximum system test pressure Low Side / High side | 25 bar(g) / 32 bar(g) | |
| Maximum differential test pressure | 24 bar | |
| Maximum number of starts per hour | 12 | |
| Refrigerant charge limit | 12,5 kg | |
| Approved refrigerants | R407C, R134a, R404A, R507A | |

Dimensions


D=266 mm

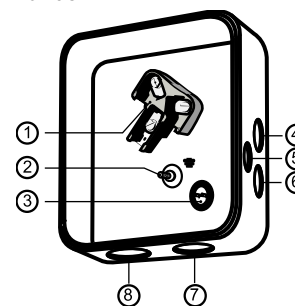
H=631 mm

H1=180 mm

H2=596 mm

Electrical Characteristics

| | |
|--|---|
| Nominal voltage | 380-400V/3/50Hz - 460V/3/60Hz |
| Voltage range | 340-440 V @ 50Hz - 414-506 V @ 60Hz |
| Winding resistance (between phases) +/- 7% at 25°C | 0,94 Ω |
| Maximum Must Trip current (MMT) | 29 A |
| Locked Rotor Amps (LRA) | 150 A |
| Motor protection | Internal thermostat, ext. overload protector needed |

Terminal box


IP54 (with cable gland)

- 1: Power connection, 3 x 4.8 mm (3/16")
- 2: Earth M5
- 3: Thermostat connector
- 4: Knock-out Ø 22 mm (7/8") for 1/2" conduit
- 5: Knock-out Ø 16.5 mm (0.65")
- 6: Knock-out Ø 20.5 mm (0.81")
- 7: Double knock-out Ø 32.1 mm (1.26") & Ø 25.4 mm (1")
- 8: Double knock-out Ø 44 mm (1-3/4") for 1-1/4" conduit & Ø 34 mm (1-3/8") for 1" conduit

Recommended Installation torques

| | |
|--------------------------------------|-------------|
| Suction Rotolock nut or valve | 130 Nm |
| Discharge Rotolock nut or valve | 110 Nm |
| Oil sight glass | 50 Nm |
| Power connections / Earth connection | 3 Nm / 2 Nm |
| Terminal box cover screws | 2,3 Nm |
| Mounting bolts | 21 Nm |

Parts shipped with compressor

| |
|--|
| Mounting kit with grommets, bolts, nuts, sleeves and washers |
| Initial oil charge |
| Installation instructions |

Approvals : CE certified, UL certified (file SA6873), -

*Singlepack: Compressor in cardboard box

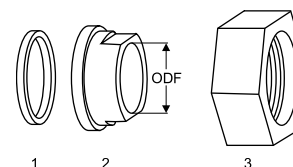
**Industrial pack: 6 Unboxed compressors on pallet (order per multiples of 6)

Rotolock accessories, suction side
Code no.

| | |
|---|---------|
| Solder sleeve, P08 (2-1/4" Rotolock, 1-3/8" ODF) | 8153005 |
| Solder sleeve, P03 (2-1/4" Rotolock, 1-5/8" ODF) | 8153006 |
| Rotolock valve, V08 (2-1/4" Rotolock, 1-3/8" ODF) | 8168025 |
| Rotolock valve, V03 (2-1/4" Rotolock, 1-5/8" ODF) | 8168026 |
| Gasket, 2-1/4" | 8156133 |

Rotolock accessories, discharge side
Code no.

| | |
|---|---------|
| Solder sleeve, P07 (1-3/4" Rotolock, 7/8" ODF) | 8153013 |
| Solder sleeve, P02 (1-3/4" Rotolock, 1-1/8" ODF) | 8153004 |
| Angle adapter, C07 (1-3/4" Rotolock, 7/8" ODF) | 8168008 |
| Angle adapter, C02 (1-3/4" Rotolock, 1-1/8" ODF) | 8168005 |
| Rotolock valve, V07 (1-3/4" Rotolock, 7/8" ODF) | 8168032 |
| Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF) | 8168028 |
| Gasket, 1-3/4" | 8156132 |

Gaskets, sleeves and nuts


- 1: Gasket
- 2: Solder sleeve
- 3: Rotolock nut

Rotolock accessories, sets
Code no.

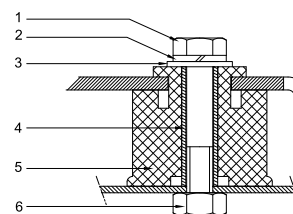
| | |
|---|---------|
| Valve set, V08 (2-1/4"~1-3/8"), V07 (1-3/4"~7/8") | 7703010 |
| Gasket set, 1-1/4", 1-3/4", 2-1/4", OSG gaskets black & white | 8156013 |

Oil / lubricants
Code no.

| | |
|-----------------------------------|---------|
| POE lubricant, 160SZ, 1 litre can | 7754023 |
| POE lubricant, 160SZ, 2 litre can | 7754024 |

Crankcase heaters
Code no.

| | |
|---|----------|
| Surface sump heater + bottom insulation, 48 W, 24 V, CE mark, UL | 120Z0363 |
| Surface sump heater + bottom insulation, 48 W, 230 V, CE mark, UL | 120Z0384 |
| Surface sump heater + bottom insulation, 48 W, 400 V, CE mark, UL | 120Z0385 |
| Surface sump heater + bottom insulation, 48 W, 460 V, CE mark | 120Z0386 |
| Belt type crankcase heater, 65 W, 460 V, CE mark, UL | 120Z0466 |
| Belt type crankcase heater, 65 W, 230 V, CE mark, UL | 7773107 |
| Belt type crankcase heater, 65 W, 400 V, CE mark, UL | 7773117 |
| Belt type crankcase heater, 65 W, 400 V, CE mark, UL | 120Z0039 |

Mounting kit


- 1: Bolt (4x)
- 2: Lock washer (4x)
- 3: Flat washer (4x)
- 4: Sleeve (4x)
- 5: Grommet (4x)
- 6: Nut (4x)

Miscellaneous accessories
Code no.

| | |
|---|---------|
| Electronic soft start kit, MCI 25 C | 7705007 |
| Soft start kit with statoric resistors, prewired box, SCR07 | 7705005 |
| Acoustic hood for scroll compressor S160 | 7755008 |
| Discharge thermostat kit | 7750009 |

Spare parts
Code no.

| | |
|--|---------|
| Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers | 8156138 |
| Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers, 2 rotolock nuts, 2 solder sleeves, 2 gaskets | 8156147 |
| Oil sight glass with gaskets (black & white) | 8156019 |
| Gasket for oil sight glass (white teflon) | 8156129 |
| Terminal box 186 x 198 mm, incl cover | 8156139 |
| T block connector 60 x 75 mm | 8173021 |

Performance data at 50 Hz, EN 12900 rating conditions

R407C

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | |
|------------------------|------------------------------------|-----|-----|----|---|---|----|----|
| | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 |

Cooling capacity in W

| | | | | | | | | | |
|----|--------|--------|--------|--------|--------|--------|--------|--------|---|
| 30 | 14 560 | 18 543 | 23 283 | 28 882 | 35 443 | 43 068 | 51 857 | 61 914 | - |
| 35 | 13 697 | 17 568 | 22 154 | 27 558 | 33 881 | 41 226 | 49 693 | 59 386 | - |
| 40 | 12 777 | 16 505 | 20 906 | 26 083 | 32 137 | 39 171 | 47 286 | 56 584 | - |
| 45 | - | 15 374 | 19 559 | 24 478 | 30 232 | 36 924 | 44 655 | 53 527 | - |
| 50 | - | - | 18 133 | 22 763 | 28 186 | 34 505 | 41 821 | 50 236 | - |
| 55 | - | - | - | 20 957 | 26 018 | 31 933 | 38 803 | 46 730 | - |
| 60 | - | - | - | - | 23 750 | 29 229 | 35 622 | 43 030 | - |
| 65 | - | - | - | - | 21 400 | 26 413 | 32 297 | 39 155 | - |

Power input in W

| | | | | | | | | | |
|----|-------|-------|--------|--------|--------|--------|--------|--------|---|
| 30 | 6 584 | 6 668 | 6 729 | 6 769 | 6 791 | 6 796 | 6 786 | 6 764 | - |
| 35 | 7 344 | 7 442 | 7 516 | 7 567 | 7 599 | 7 612 | 7 610 | 7 593 | - |
| 40 | 8 191 | 8 303 | 8 389 | 8 451 | 8 492 | 8 514 | 8 518 | 8 506 | - |
| 45 | - | 9 268 | 9 366 | 9 439 | 9 489 | 9 518 | 9 528 | 9 522 | - |
| 50 | - | - | 10 466 | 10 549 | 10 608 | 10 644 | 10 660 | 10 658 | - |
| 55 | - | - | - | 11 800 | 11 866 | 11 910 | 11 931 | 11 933 | - |
| 60 | - | - | - | - | 13 283 | 13 333 | 13 360 | 13 365 | - |
| 65 | - | - | - | - | 14 877 | 14 933 | 14 964 | 14 973 | - |

Current consumption in A

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|---|
| 30 | 13.98 | 14.05 | 14.06 | 14.04 | 13.98 | 13.89 | 13.78 | 13.65 | - |
| 35 | 14.79 | 14.88 | 14.93 | 14.95 | 14.93 | 14.89 | 14.83 | 14.75 | - |
| 40 | 15.72 | 15.84 | 15.93 | 15.97 | 15.99 | 15.99 | 15.97 | 15.93 | - |
| 45 | - | 16.97 | 17.07 | 17.14 | 17.19 | 17.21 | 17.22 | 17.22 | - |
| 50 | - | - | 18.42 | 18.50 | 18.57 | 18.61 | 18.64 | 18.67 | - |
| 55 | - | - | - | 20.09 | 20.16 | 20.22 | 20.26 | 20.31 | - |
| 60 | - | - | - | - | 22.02 | 22.07 | 22.13 | 22.18 | - |
| 65 | - | - | - | - | 24.17 | 24.22 | 24.27 | 24.32 | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|-------|---|
| 30 | 306 | 384 | 475 | 580 | 700 | 839 | 996 | 1 175 | - |
| 35 | 302 | 381 | 473 | 578 | 700 | 839 | 997 | 1 177 | - |
| 40 | 297 | 377 | 469 | 575 | 696 | 836 | 994 | 1 174 | - |
| 45 | - | 371 | 462 | 568 | 690 | 829 | 987 | 1 166 | - |
| 50 | - | - | 454 | 560 | 681 | 819 | 976 | 1 155 | - |
| 55 | - | - | - | 549 | 668 | 806 | 962 | 1 139 | - |
| 60 | - | - | - | - | 654 | 789 | 944 | 1 119 | - |
| 65 | - | - | - | - | 636 | 770 | 922 | 1 095 | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|---|
| 30 | 2.21 | 2.78 | 3.46 | 4.27 | 5.22 | 6.34 | 7.64 | 9.15 | - |
| 35 | 1.87 | 2.36 | 2.95 | 3.64 | 4.46 | 5.42 | 6.53 | 7.82 | - |
| 40 | 1.56 | 1.99 | 2.49 | 3.09 | 3.78 | 4.60 | 5.55 | 6.65 | - |
| 45 | - | 1.66 | 2.09 | 2.59 | 3.19 | 3.88 | 4.69 | 5.62 | - |
| 50 | - | - | 1.73 | 2.16 | 2.66 | 3.24 | 3.92 | 4.71 | - |
| 55 | - | - | - | 1.78 | 2.19 | 2.68 | 3.25 | 3.92 | - |
| 60 | - | - | - | - | 1.79 | 2.19 | 2.67 | 3.22 | - |
| 65 | - | - | - | - | 1.44 | 1.77 | 2.16 | 2.62 | - |

Nominal performance at to = 5 °C, tc = 50 °C

| | | |
|---------------------|--------|------|
| Cooling capacity | 34 505 | W |
| Power input | 10 644 | W |
| Current consumption | 18.61 | A |
| Mass flow | 819 | kg/h |
| C.O.P. | 3.24 | |



Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 29.5 | bar(g) |
| Minimum LP switch setting | 0.5 | bar(g) |
| LP pump down setting | 1 | bar(g) |

Sound power data

| | | |
|--------------------|------|-------|
| Sound power level | 80.5 | dB(A) |
| With acoustic hood | 73 | dB(A) |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

All performance data +/- 5%

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Performance data at 50 Hz, ARI rating conditions

R407C

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | |
|---------------------------|------------------------------------|-----|-----|----|---|---|----|----|
| | -20 | -15 | -10 | -5 | 0 | 5 | 10 | 15 |

Cooling capacity in W

| | | | | | | | | | |
|----|--------|--------|--------|--------|--------|--------|--------|--------|---|
| 30 | 15 616 | 19 865 | 24 915 | 30 874 | 37 848 | 45 944 | 55 268 | 65 925 | - |
| 35 | 14 762 | 18 909 | 23 816 | 29 591 | 36 339 | 44 168 | 53 184 | 63 495 | - |
| 40 | 13 848 | 17 862 | 22 594 | 28 152 | 34 643 | 42 174 | 50 852 | 60 785 | - |
| 45 | - | 16 744 | 21 269 | 26 579 | 32 781 | 39 982 | 48 292 | 57 816 | - |
| 50 | - | - | 19 863 | 24 893 | 30 774 | 37 615 | 45 525 | 54 610 | - |
| 55 | - | - | - | 23 115 | 28 644 | 35 094 | 42 573 | 51 191 | - |
| 60 | - | - | - | - | 26 416 | 32 444 | 39 463 | 47 584 | - |
| 65 | - | - | - | - | 24 116 | 29 692 | 36 224 | 43 821 | - |

Power input in W

| | | | | | | | | | |
|----|-------|-------|--------|--------|--------|--------|--------|--------|---|
| 30 | 6 584 | 6 668 | 6 729 | 6 769 | 6 791 | 6 796 | 6 786 | 6 764 | - |
| 35 | 7 344 | 7 442 | 7 516 | 7 567 | 7 599 | 7 612 | 7 610 | 7 593 | - |
| 40 | 8 191 | 8 303 | 8 389 | 8 451 | 8 492 | 8 514 | 8 518 | 8 506 | - |
| 45 | - | 9 268 | 9 366 | 9 439 | 9 489 | 9 518 | 9 528 | 9 522 | - |
| 50 | - | - | 10 466 | 10 549 | 10 608 | 10 644 | 10 660 | 10 658 | - |
| 55 | - | - | - | 11 800 | 11 866 | 11 910 | 11 931 | 11 933 | - |
| 60 | - | - | - | - | 13 283 | 13 333 | 13 360 | 13 365 | - |
| 65 | - | - | - | - | 14 877 | 14 933 | 14 964 | 14 973 | - |

Current consumption in A

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|---|
| 30 | 13.98 | 14.05 | 14.06 | 14.04 | 13.98 | 13.89 | 13.78 | 13.65 | - |
| 35 | 14.79 | 14.88 | 14.93 | 14.95 | 14.93 | 14.89 | 14.83 | 14.75 | - |
| 40 | 15.72 | 15.84 | 15.93 | 15.97 | 15.99 | 15.99 | 15.97 | 15.93 | - |
| 45 | - | 16.97 | 17.07 | 17.14 | 17.19 | 17.21 | 17.22 | 17.22 | - |
| 50 | - | - | 18.42 | 18.50 | 18.57 | 18.61 | 18.64 | 18.67 | - |
| 55 | - | - | - | 20.09 | 20.16 | 20.22 | 20.26 | 20.31 | - |
| 60 | - | - | - | - | 22.02 | 22.07 | 22.13 | 22.18 | - |
| 65 | - | - | - | - | 24.17 | 24.22 | 24.27 | 24.32 | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|-------|---|
| 30 | 304 | 382 | 472 | 577 | 697 | 834 | 990 | 1 168 | - |
| 35 | 301 | 379 | 470 | 575 | 696 | 834 | 991 | 1 169 | - |
| 40 | 296 | 375 | 466 | 571 | 693 | 831 | 988 | 1 166 | - |
| 45 | - | 369 | 460 | 565 | 686 | 824 | 981 | 1 159 | - |
| 50 | - | - | 452 | 557 | 677 | 814 | 971 | 1 148 | - |
| 55 | - | - | - | 546 | 665 | 801 | 956 | 1 132 | - |
| 60 | - | - | - | - | 650 | 785 | 938 | 1 112 | - |
| 65 | - | - | - | - | 633 | 765 | 917 | 1 088 | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|---|
| 30 | 2.37 | 2.98 | 3.70 | 4.56 | 5.57 | 6.76 | 8.14 | 9.75 | - |
| 35 | 2.01 | 2.54 | 3.17 | 3.91 | 4.78 | 5.80 | 6.99 | 8.36 | - |
| 40 | 1.69 | 2.15 | 2.69 | 3.33 | 4.08 | 4.95 | 5.97 | 7.15 | - |
| 45 | - | 1.81 | 2.27 | 2.82 | 3.45 | 4.20 | 5.07 | 6.07 | - |
| 50 | - | - | 1.90 | 2.36 | 2.90 | 3.53 | 4.27 | 5.12 | - |
| 55 | - | - | - | 1.96 | 2.41 | 2.95 | 3.57 | 4.29 | - |
| 60 | - | - | - | - | 1.99 | 2.43 | 2.95 | 3.56 | - |
| 65 | - | - | - | - | 1.62 | 1.99 | 2.42 | 2.93 | - |

Nominal performance at to = 7.2 °C, tc = 54.4 °C

| | | |
|---------------------|--------|------|
| Cooling capacity | 38 584 | W |
| Power input | 11 761 | W |
| Current consumption | 20.03 | A |
| Mass flow | 869 | kg/h |
| C.O.P. | 3.28 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 29.5 | bar(g) |
| Minimum LP switch setting | 0.5 | bar(g) |
| LP pump down setting | 1 | bar(g) |

Sound power data

| | | |
|--------------------|------|-------|
| Sound power level | 80.5 | dB(A) |
| With acoustic hood | 73 | dB(A) |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

All performance data +/- 5%

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Performance data at 50 Hz, EN 12900 rating conditions
R134a

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | |
|---------------------------|------------------------------------|-----|----|---|---|----|----|--|
| | -15 | -10 | -5 | 0 | 5 | 10 | 15 | |

Cooling capacity in W

| | | | | | | | | | |
|----|--------|--------|--------|--------|--------|--------|--------|---|---|
| 35 | 11 453 | 14 688 | 18 491 | 22 918 | 28 029 | 33 881 | 40 531 | - | - |
| 40 | 10 707 | 13 830 | 17 496 | 21 762 | 26 686 | 32 326 | 38 739 | - | - |
| 45 | 9 942 | 12 938 | 16 452 | 20 542 | 25 264 | 30 677 | 36 837 | - | - |
| 50 | 9 161 | 12 016 | 15 363 | 19 261 | 23 766 | 28 936 | 34 827 | - | - |
| 55 | - | 11 067 | 14 232 | 17 923 | 22 195 | 27 106 | 32 713 | - | - |
| 60 | - | - | 13 062 | 16 529 | 20 553 | 25 190 | 30 496 | - | - |
| 65 | - | - | - | 15 084 | 18 843 | 23 189 | 28 178 | - | - |
| 70 | - | - | - | 13 589 | 17 067 | 21 105 | 25 759 | - | - |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|--------|--------|--------|--------|---|---|
| 35 | 5 259 | 5 322 | 5 374 | 5 410 | 5 427 | 5 421 | 5 389 | - | - |
| 40 | 5 790 | 5 856 | 5 912 | 5 953 | 5 975 | 5 976 | 5 950 | - | - |
| 45 | 6 391 | 6 461 | 6 521 | 6 567 | 6 595 | 6 602 | 6 584 | - | - |
| 50 | 7 067 | 7 141 | 7 206 | 7 257 | 7 292 | 7 306 | 7 295 | - | - |
| 55 | - | 7 902 | 7 972 | 8 030 | 8 071 | 8 093 | 8 090 | - | - |
| 60 | - | - | 8 825 | 8 890 | 8 938 | 8 968 | 8 974 | - | - |
| 65 | - | - | - | 9 842 | 9 899 | 9 937 | 9 952 | - | - |
| 70 | - | - | - | 10 893 | 10 957 | 11 004 | 11 030 | - | - |

Current consumption in A

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|---|---|
| 35 | 12.56 | 12.61 | 12.63 | 12.63 | 12.61 | 12.55 | 12.45 | - | - |
| 40 | 13.04 | 13.09 | 13.13 | 13.15 | 13.14 | 13.09 | 13.02 | - | - |
| 45 | 13.61 | 13.68 | 13.73 | 13.76 | 13.77 | 13.75 | 13.70 | - | - |
| 50 | 14.31 | 14.39 | 14.45 | 14.50 | 14.53 | 14.53 | 14.50 | - | - |
| 55 | - | 15.22 | 15.30 | 15.37 | 15.42 | 15.44 | 15.44 | - | - |
| 60 | - | - | 16.29 | 16.38 | 16.45 | 16.50 | 16.53 | - | - |
| 65 | - | - | - | 17.55 | 17.65 | 17.72 | 17.78 | - | - |
| 70 | - | - | - | 18.89 | 19.01 | 19.12 | 19.20 | - | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|---|---|
| 35 | 278 | 348 | 429 | 521 | 625 | 742 | 872 | - | - |
| 40 | 273 | 344 | 426 | 519 | 623 | 741 | 872 | - | - |
| 45 | 267 | 340 | 422 | 516 | 621 | 738 | 870 | - | - |
| 50 | 261 | 334 | 417 | 511 | 616 | 734 | 866 | - | - |
| 55 | - | 328 | 411 | 505 | 611 | 729 | 860 | - | - |
| 60 | - | - | 405 | 498 | 604 | 722 | 853 | - | - |
| 65 | - | - | - | 490 | 595 | 713 | 843 | - | - |
| 70 | - | - | - | 481 | 585 | 702 | 832 | - | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|---|---|
| 35 | 2.18 | 2.76 | 3.44 | 4.24 | 5.16 | 6.25 | 7.52 | - | - |
| 40 | 1.85 | 2.36 | 2.96 | 3.66 | 4.47 | 5.41 | 6.51 | - | - |
| 45 | 1.56 | 2.00 | 2.52 | 3.13 | 3.83 | 4.65 | 5.60 | - | - |
| 50 | 1.30 | 1.68 | 2.13 | 2.65 | 3.26 | 3.96 | 4.77 | - | - |
| 55 | - | 1.40 | 1.79 | 2.23 | 2.75 | 3.35 | 4.04 | - | - |
| 60 | - | - | 1.48 | 1.86 | 2.30 | 2.81 | 3.40 | - | - |
| 65 | - | - | - | 1.53 | 1.90 | 2.33 | 2.83 | - | - |
| 70 | - | - | - | 1.25 | 1.56 | 1.92 | 2.34 | - | - |

Nominal performance at to = 5 °C, tc = 50 °C

| | | |
|---------------------|--------|------|
| Cooling capacity | 23 766 | W |
| Power input | 7 292 | W |
| Current consumption | 14.53 | A |
| Mass flow | 616 | kg/h |
| C.O.P. | 3.26 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 20.5 | bar(g) |
| Minimum LP switch setting | 0.5 | bar(g) |
| LP pump down setting | 0.5 | bar(g) |

Sound power data

| | | |
|--------------------|---|-------|
| Sound power level | 0 | dB(A) |
| With acoustic hood | 0 | dB(A) |

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

All performance data +/- 5%

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Performance data at 50 Hz, ARI rating conditions

R134a

| Cond. temp. in °C (tc) | Evaporating temperature in °C (to) | | | | | | | |
|---------------------------|------------------------------------|-----|----|---|---|----|----|--|
| | -15 | -10 | -5 | 0 | 5 | 10 | 15 | |

Cooling capacity in W

| | | | | | | | | | |
|----|--------|--------|--------|--------|--------|--------|--------|---|---|
| 35 | 12 406 | 15 883 | 19 962 | 24 704 | 30 167 | 36 413 | 43 501 | - | - |
| 40 | 11 660 | 15 033 | 18 984 | 23 573 | 28 858 | 34 902 | 41 763 | - | - |
| 45 | 10 895 | 14 148 | 17 955 | 22 375 | 27 468 | 33 293 | 39 912 | - | - |
| 50 | 10 112 | 13 231 | 16 878 | 21 114 | 25 998 | 31 591 | 37 952 | - | - |
| 55 | - | 12 285 | 15 757 | 19 793 | 24 454 | 29 798 | 35 886 | - | - |
| 60 | - | - | 14 595 | 18 417 | 22 838 | 27 918 | 33 717 | - | - |
| 65 | - | - | - | 16 988 | 21 154 | 25 955 | 31 450 | - | - |
| 70 | - | - | - | 15 510 | 19 406 | 23 912 | 29 088 | - | - |

Power input in W

| | | | | | | | | | |
|----|-------|-------|-------|--------|--------|--------|--------|---|---|
| 35 | 5 259 | 5 322 | 5 374 | 5 410 | 5 427 | 5 421 | 5 389 | - | - |
| 40 | 5 790 | 5 856 | 5 912 | 5 953 | 5 975 | 5 976 | 5 950 | - | - |
| 45 | 6 391 | 6 461 | 6 521 | 6 567 | 6 595 | 6 602 | 6 584 | - | - |
| 50 | 7 067 | 7 141 | 7 206 | 7 257 | 7 292 | 7 306 | 7 295 | - | - |
| 55 | - | 7 902 | 7 972 | 8 030 | 8 071 | 8 093 | 8 090 | - | - |
| 60 | - | - | 8 825 | 8 890 | 8 938 | 8 968 | 8 974 | - | - |
| 65 | - | - | - | 9 842 | 9 899 | 9 937 | 9 952 | - | - |
| 70 | - | - | - | 10 893 | 10 957 | 11 004 | 11 030 | - | - |

Current consumption in A

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|---|---|
| 35 | 12.56 | 12.61 | 12.63 | 12.63 | 12.61 | 12.55 | 12.45 | - | - |
| 40 | 13.04 | 13.09 | 13.13 | 13.15 | 13.14 | 13.09 | 13.02 | - | - |
| 45 | 13.61 | 13.68 | 13.73 | 13.76 | 13.77 | 13.75 | 13.70 | - | - |
| 50 | 14.31 | 14.39 | 14.45 | 14.50 | 14.53 | 14.53 | 14.50 | - | - |
| 55 | - | 15.22 | 15.30 | 15.37 | 15.42 | 15.44 | 15.44 | - | - |
| 60 | - | - | 16.29 | 16.38 | 16.45 | 16.50 | 16.53 | - | - |
| 65 | - | - | - | 17.55 | 17.65 | 17.72 | 17.78 | - | - |
| 70 | - | - | - | 18.89 | 19.01 | 19.12 | 19.20 | - | - |

Mass flow in kg/h

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|---|---|
| 35 | 276 | 347 | 427 | 518 | 622 | 738 | 867 | - | - |
| 40 | 271 | 343 | 424 | 516 | 620 | 737 | 867 | - | - |
| 45 | 266 | 338 | 420 | 513 | 617 | 734 | 865 | - | - |
| 50 | 260 | 333 | 415 | 508 | 613 | 730 | 861 | - | - |
| 55 | - | 327 | 409 | 503 | 608 | 725 | 855 | - | - |
| 60 | - | - | 402 | 496 | 601 | 718 | 848 | - | - |
| 65 | - | - | - | 488 | 592 | 709 | 839 | - | - |
| 70 | - | - | - | 478 | 582 | 698 | 827 | - | - |

Coefficient of performance (C.O.P.)

| | | | | | | | | | |
|----|------|------|------|------|------|------|------|---|---|
| 35 | 2.36 | 2.98 | 3.71 | 4.57 | 5.56 | 6.72 | 8.07 | - | - |
| 40 | 2.01 | 2.57 | 3.21 | 3.96 | 4.83 | 5.84 | 7.02 | - | - |
| 45 | 1.70 | 2.19 | 2.75 | 3.41 | 4.16 | 5.04 | 6.06 | - | - |
| 50 | 1.43 | 1.85 | 2.34 | 2.91 | 3.57 | 4.32 | 5.20 | - | - |
| 55 | - | 1.55 | 1.98 | 2.46 | 3.03 | 3.68 | 4.44 | - | - |
| 60 | - | - | 1.65 | 2.07 | 2.56 | 3.11 | 3.76 | - | - |
| 65 | - | - | - | 1.73 | 2.14 | 2.61 | 3.16 | - | - |
| 70 | - | - | - | 1.42 | 1.77 | 2.17 | 2.64 | - | - |

Nominal performance at to = 7.2 °C, tc = 54.4 °C

| | | |
|---------------------|--------|------|
| Cooling capacity | 26 920 | W |
| Power input | 7 985 | W |
| Current consumption | 15.32 | A |
| Mass flow | 658 | kg/h |
| C.O.P. | 3.37 | |

Pressure switch settings

| | | |
|---------------------------|------|--------|
| Maximum HP switch setting | 20.5 | bar(g) |
| Minimum LP switch setting | 0.5 | bar(g) |
| LP pump down setting | 0.5 | bar(g) |

Sound power data

| | | |
|--------------------|---|-------|
| Sound power level | 0 | dB(A) |
| With acoustic hood | 0 | dB(A) |

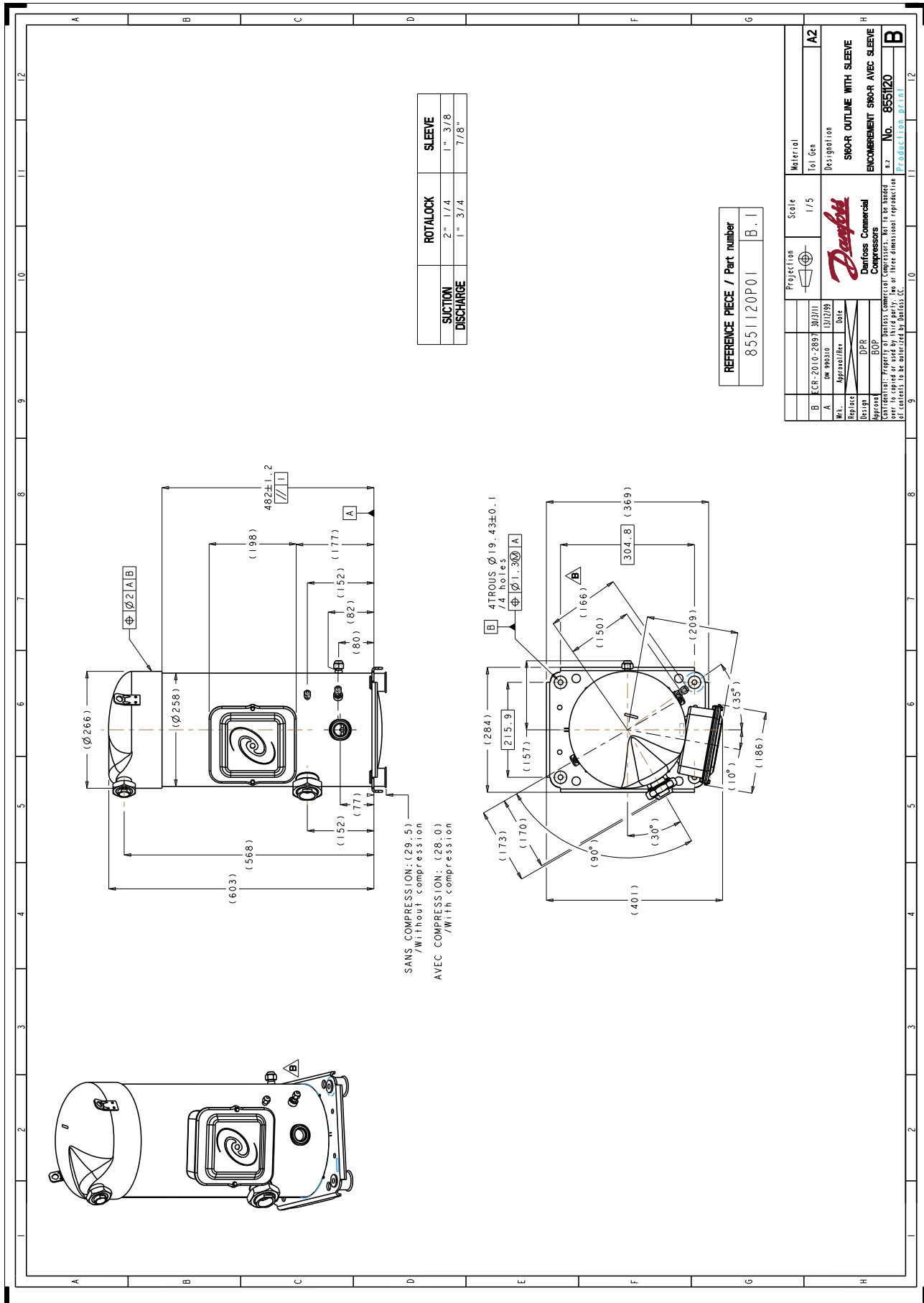
to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

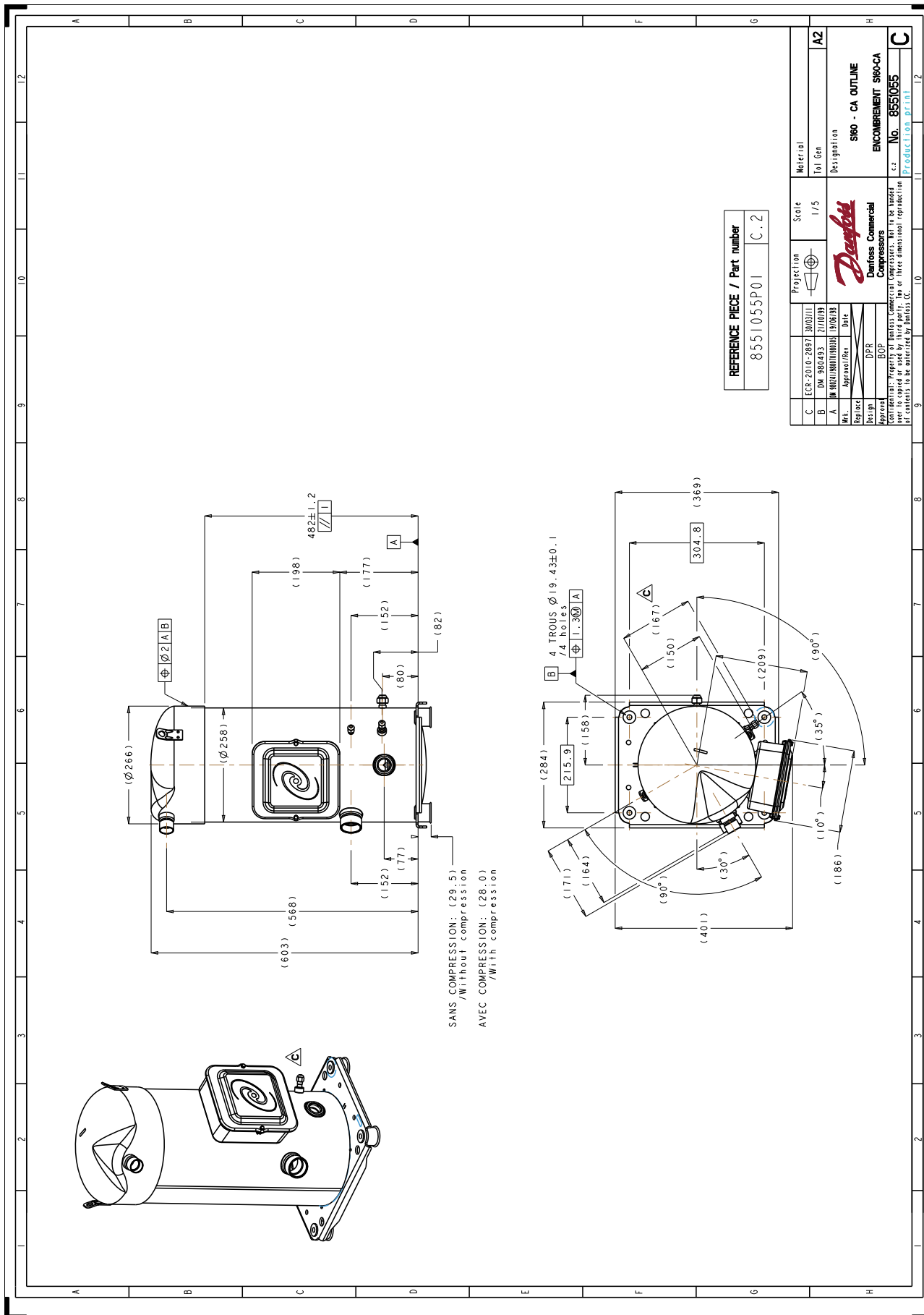
Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

All performance data +/- 5%

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