Single Packs



Single Pack NF7MLX 220-240V 50Hz / 208-230V 60Hz CSIR

Single pack code number: 195B4438

| Position | Title | Code | Amount |
|----------|---|----------|--------|
| 1 | Compressor NF7MLX | 105F3721 | 1 |
| 2 | Starting relay (overload protector MRP56EN-6) | 117U4139 | 1 |
| 3 | Starting capacitor (125µF 220V, 6.3mm) | 117U5018 | 1 |
| 4 | Cord relief | 117U0349 | 1 |
| 5 | Cover | 117U1021 | 1 |
| 6 | Bolt joint for one compressor M6 ø16mm | 118-1917 | 1 |

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NF7MLX MBP Compressor R404A/R507 220-240V 50Hz & 208-230V 60Hz

General

| Code number | 105F3721 |
|-----------------------|---------------|
| Approvals | EN 60335-2-34 |
| Compressors on pallet | 80 |

Application

| Application | | MBP | | | |
|--|----|-----------|--------------|--|--|
| Frequency | Hz | 50 | 60 | | |
| Evaporating temperature | °C | -15 to 10 | -23.3 to 7.2 | | |
| Voltage range | V | 187 - 254 | 187 - 254 | | |
| Max. condensing temperature continuous (short) | °C | 55 (60) | 55 (60) | | |
| Max. winding temperature continuous (short) | °C | 125 (135) | 125 (135) | | |

Cooling requirements

| Frequency | Hz | | 50 | | | 60 | |
|-------------|----|-----|----------------|-----|-----|----------------|-----|
| Application | | LBP | MBP | HBP | LBP | MBP | HBP |
| 32°C | | _ | F ₂ | _ | _ | F ₂ | _ |
| 38°C | | _ | F ₂ | _ | _ | F ₂ | _ |
| 43°C | | _ | F ₂ | _ | _ | F ₂ | _ |

Remarks on application: 220V 50Hz nominal below -10°C evaporating temperature

Application NF7MLX SECOP

Lilac stripe SUCTION R507

Approvals
Barcode on white background
Yellow background
Country of origin or manufacturer

- S = Static cooling normally sufficient
 - = Oil cooling
- F₁ = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
- F₂ = Fan cooling 3.0 m/s necessary
- SG = Suction gas cooling normally sufficent

204

= not applicable in this area

Motor

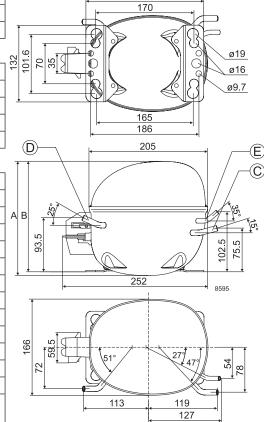
| Motor type | | CSIR | | | |
|---|---|------|------|--|--|
| LRA (rated after 4 sec. UL984), HST LST | Α | 21.0 | _ | | |
| Cut in Current, HST LST | А | 21.0 | - | | |
| Resistance, main start winding (25°C) | Ω | 4.5 | 12.8 | | |

Design

| Displacement | cm ³ | 7.27 |
|-------------------------------------|-----------------|-------------------|
| Oil quantity (type) | cm ³ | 300 (polyolester) |
| Maximum refrigerant charge | g | 400 |
| Free gas volume in compressor | cm ³ | 2310 |
| Weight without electrical equipment | kg | 10.5 |

Dimensions

| Height | mm | Α | 203 |
|----------------------|--------------------------|----|----------------------|
| | | В | 197 |
| | | В1 | _ |
| | | B2 | _ |
| Suction connector | location/I.D. mm angle | С | 8.2 15° |
| | material comment | | Copper Rubber plug |
| Process connector | location/I.D. mm angle | D | 6.2 25° |
| | material comment | | Copper Rubber plug |
| Discharge connector | location/I.D. mm angle | Е | 6.2 35° |
| | material comment | | Copper Rubber plug |
| Oil cooler connector | location/I.D. mm angle | F | _ |
| | material comment | | _ |
| Connector tolerance | I.D. mm | | ±0.09 |



| ASHRAE MBP | | | | 230V, | 60Hz, f | an cooli | ng F ₂ | | | | | | | | | | |
|---|---------|------|-----|-------|---------|----------|-------------------|------|------|------|------|------|------|------|------|----|----|
| Evap. temp. in °C | -45 | -40 | -35 | -30 | -25 | -23.3 | -20 | -15 | -10 | -6.7 | -5 | 0 | 5 | 7.2 | 10 | 15 | 20 |
| Capacity in W | | | | | | 363 | 438 | 563 | 708 | 815 | 874 | 1065 | 1284 | 1390 | | | |
| Power cons. in W | | | | | | 368 | 398 | 445 | 494 | 529 | 547 | 603 | 663 | 691 | | | |
| Current cons. in A | | | | | | 2.38 | 2.51 | 2.70 | 2.89 | 3.02 | 3.09 | 3.29 | 3.50 | 3.59 | | | |
| COP in W/W | | | | | | 0.99 | 1.10 | 1.27 | 1.43 | 1.54 | 1.60 | 1.77 | 1.94 | 2.01 | | | |
| EN 12900 Household (CECOMAF) 230V, 60Hz, fan cooling F ₂ | | | | | | | | | | | | | | | | | |
| Evap. temp. in °C | -45 | -40 | -35 | -30 | -25 | -23.3 | -20 | -15 | -10 | -6.7 | -5 | 0 | 5 | 7.2 | 10 | 15 | 20 |
| Capacity in W | | | | | | 413 | 489 | 618 | 768 | 879 | 940 | 1137 | 1362 | 1470 | | | |
| Power cons. in W | | | | | | 358 | 385 | 428 | 473 | 504 | 521 | 573 | 629 | 656 | | | |
| Current cons. in A | | | | | | 2.37 | 2.47 | 2.62 | 2.78 | 2.89 | 2.94 | 3.11 | 3.28 | 3.35 | | | |
| COP in W/W | | | | | | 1.15 | 1.27 | 1.45 | 1.62 | 1.74 | 1.80 | 1.98 | 2.16 | 2.24 | | | |
| ASHRAE MBP | | | | 220V, | 50Hz, f | an cooli | ng F ₂ | | | | | | | | | | |
| Evap. temp. in °C | -45 | -40 | -35 | -30 | -25 | -23.3 | -20 | -15 | -10 | -6.7 | -5 | 0 | 5 | 7.2 | 10 | 15 | 20 |
| Capacity in W | | | | | | | | 466 | 585 | 673 | 722 | 880 | 1061 | 1148 | 1268 | | |
| Power cons. in W | | | | | | | | 397 | 434 | 458 | 470 | 504 | 536 | 549 | 565 | | |
| Current cons. in A | | | | | | | | 3.06 | 3.17 | 3.24 | 3.28 | 3.40 | 3.52 | 3.57 | 3.64 | | |
| COP in W/W | | | | | | | | 1.17 | 1.35 | 1.47 | 1.54 | 1.75 | 3.52 | 2.09 | 2.24 | | |
| EN 12900 Househo | ld (CEC | OMAF |) | 220V, | 50Hz, f | an cooli | ng F ₂ | | | | | | | | | | |
| Evap. temp. in °C | -45 | -40 | -35 | -30 | -25 | -23.3 | -20 | -15 | -10 | -6.7 | -5 | 0 | 5 | 7.2 | 10 | 15 | 20 |
| Capacity in W | | | | | | | | 511 | 635 | 726 | 777 | 940 | 1125 | 1215 | 1336 | | |
| Power cons. in W | | | | | | | | 374 | 406 | 425 | 435 | 463 | 488 | 498 | 511 | | |

3.01

3.10

3.17

3.20

3.29

2.03

3.39

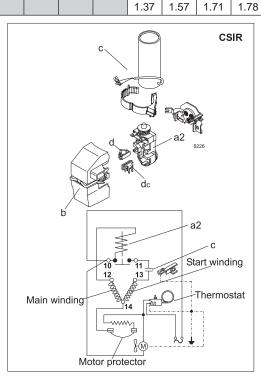
2.31

3.43

2.44

3.49

2.62



| Accessories for | NF7MLX | Figure | Code number |
|---------------------------|-------------------------|--------|-------------|
| Starting relay | 6.3 mm spade connectors | | 117U4139 |
| (protector incl.) | | a1 | 11704139 |
| Protector 3/4 in. | Texas Instruments | | MRP56EN-6 |
| Cover (UL approved) | | b | 117U1021 |
| Start. capacitor 125 µF | 6.3 mm spade connectors | С | 117U5018 |
| Cord relief | | d | 117U0349 |
| Cord relief for capacitor | | dc | 117U0349 |

Current cons. in A

COP in W/W

| Test conditions | EN 12900/CECOMAF | ASHRAE MBP |
|-------------------------|------------------|------------|
| Condensing temperature | 43.3°C | 54.4°C |
| Ambient temperature | 32°C | 35°C |
| Suction gas temperature | 32°C | 35°C |
| Liquid temperature | no subcooling | 46.1°C |

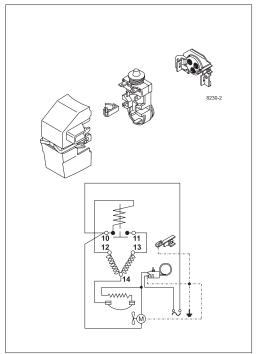
| Mounting accessories | | Code number |
|--------------------------|----------|-------------|
| Bolt joint for one comp. | Ø: 16 mm | 118-1917 |
| Bolt joint in quantities | Ø: 16 mm | 118-1918 |
| Snap-on in quantities | Ø: 16 mm | 118-1919 |

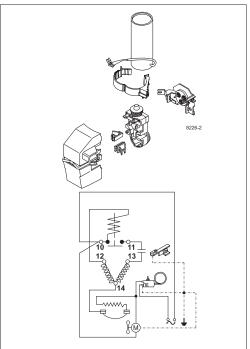
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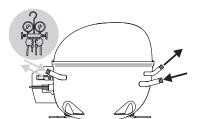
NF Compressors





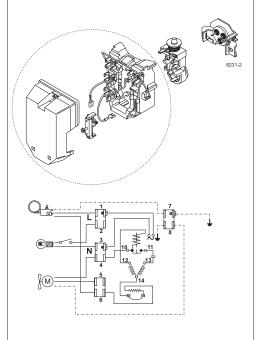


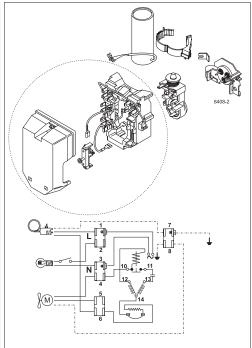
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