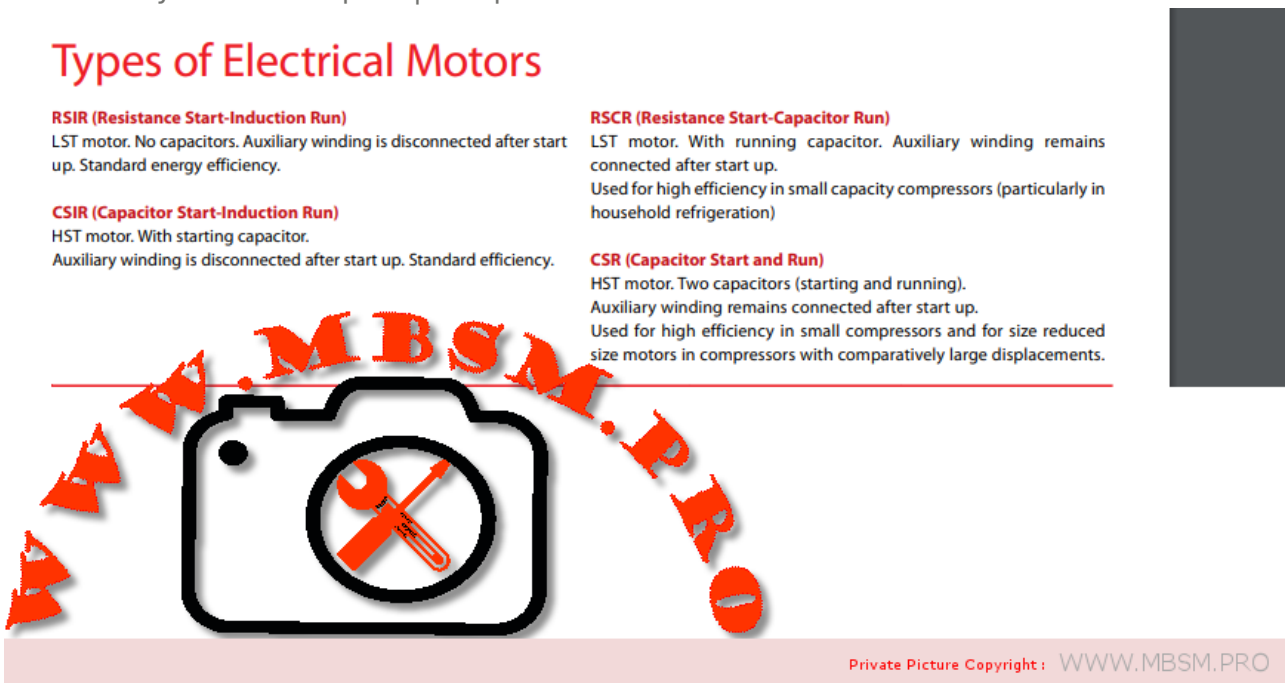
Types of Electrical Motors, RSIR, CSIR, RSCR, CSR, PTC, NTC, LST, HST, MBP, HBP, LBP

Category: compressor,Files
written by www.mbsm.pro | 8 April 2021



Types of Electrical Motors
RSIR (Resistance Start-Induction Run)
LST motor. No capacitors. Auxiliary winding is disconnected after start up. Standard energy efficiency.
CSIR (Capacitor Start-Induction Run)
HST motor. With starting capacitor.
Auxiliary winding is disconnected after start up. Standard efficiency.
RSCR (Resistance Start-Capacitor Run)
LST motor. With running capacitor. Auxiliary winding remains connected after start up.
Used for high efficiency in small capacity compressors (particularly in household refrigeration)
CSR (Capacitor Start and Run)
HST motor. Two capacitors (starting and running).
Auxiliary winding remains connected after start up.
Used for high efficiency in small compressors and for size reduced size motors in compressors with comparatively large displacements

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Type of starting device
Current relay – (electromechanical). RSIR/CSIR motors and CSR low/ medium-power motors with NTC (the NTC is connected in series with the starting capacitor and the main purpose is to reduce the current peaks in the relay contacts)
Potential relay – (electromechanical). CSR high-power motors.
PTC – (Positive Temperature Coefficient), the resistance increases with the temperature. Device only with RSIR or RSCR motors in the (Small L, B), L and P ranges.
NTC – (Negative Temperature Coefficient), the resistance decreases with the temperature. Used in some CSR in order to reduce dimensions and components.

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Type of torque

LST – Low Starting Torque – Systems with capillary tube or balanced pressures at start up.

HST – High Starting Torque – Systems with expansion valve or capillary tube, with unbalanced pressures at start up.

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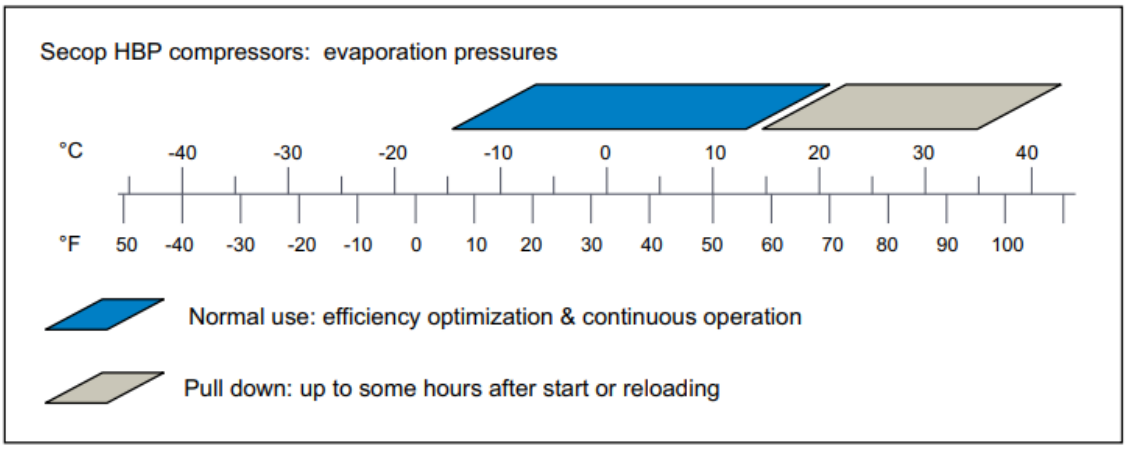

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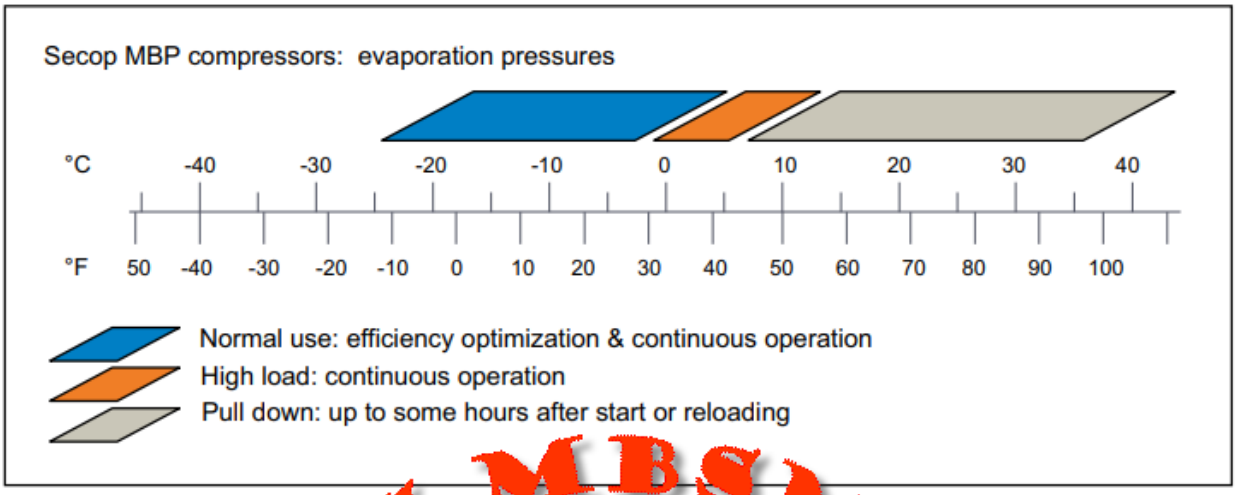

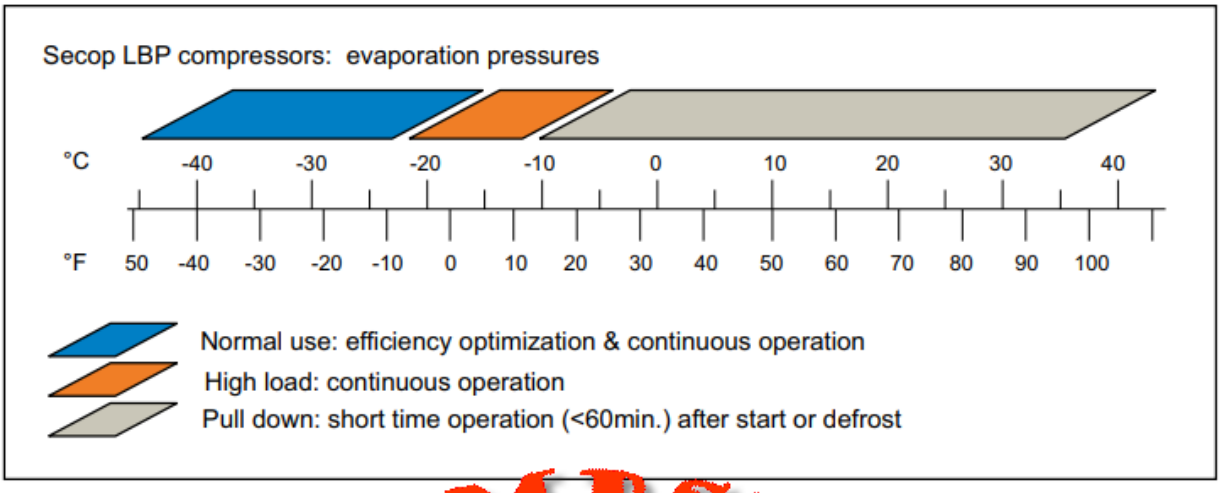

Catalogue, DANFOSS, All Compressor, PDF Catalogs, Documentation

Category: compressor,Files
written by www.mbsm.pro | 8 April 2021

Catalogue, DANFOSS, All Compressor, PDF Catalogs, Documentation
Mbsm_dot_pro_private_PDF_DANFOSS-FRCC.PK_.046.A1.02Télécharger
Mbsm_dot_pro_private_PDF_Danfoss_scroll_compressors_HXX_R410ATélécharger
Mbsm_dot_pro_private_PDF_DANFOSS-1Télécharger
Mbsm_dot_pro_private_PDF_DANFOSSTélécharger

Compressor, 1/3HP, FR10S, 103U2930, SECOP, 103U, 2930, Compressor Danfoss, R12, 220-240V, 50Hz

Category: compressor
written by www.mbsm.pro | 8 April 2021

DESCRIPTION

		R404a / R507a		
13	104L2523	Danfoss Compressor SC 10CL	1/3 HP	352 W
14	104L2623	Danfoss Compressor SC 12CL	3/8 HP	445 W
15	104L2853	Danfoss Compressor SC 15CL	1/2 HP	560 W
16	104L2123	Danfoss Compressor SC 18CL	5/8 HP	615 W
17	104L2322	Danfoss Compressor SC 21CL	7/8 HP	702 W

		R134a		
9	104G8240	Danfoss compressor SC 12G	3/8 HP	298 W
10	104G8520	Danfoss compressor SC 15G	1/2 HP	356 W
11	104G8820	Danfoss compressor SC 18G	5/8 HP	615 W
12	104G8140	Danfoss compressor SC 21G	7/8 HP	702 W

		R12a		
5	103G2630	Danfoss compressor FR 6S	1/6 HP	119 W
6	103U2730	Danfoss compressor FR 7.5S	1/5 HP	138 W
7	103U2830	Danfoss compressor FR 8.5S	1/4 HP	164 W
8	103U2930	Danfoss compressor FR 10S	1/3 HP	194 W

		R134a		
1	103G6660	Danfoss Compressor FR 6G	1/6 HP	119 W
2	103G6680	Danfoss compressor FR 7.5G	1/5 HP	138 W
3	103G6780	Danfoss compressor FR 8.5G	1/4 HP	164 W
4	103G6880	Danfoss compressor FR 10G	1/3 HP	194 W

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Sr	Material	Material Description	Capacity	Cons. Watts -25
		R134a		
1	103G6660	Danfoss Compressor FR 6G	1/6 HP	119 W
2	103G6680	Danfoss compressor FR 7.5G	1/5 HP	138 W
3	103G6780	Danfoss compressor FR 8.5G	1/4 HP	164 W
4	103G6880	Danfoss compressor FR 10G	1/3 HP	194 W
		R12a		
5	103G2630	Danfoss compressor FR 6S	1/6 HP	119 W
6	103U2730	Danfoss compressor FR 7.5S	1/5 HP	138 W
7	103U2830	Danfoss compressor FR 8.5S	1/4 HP	164 W
8	103U2930	Danfoss compressor FR 10S	1/3 HP	194 W
		R134a		
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		R404a / R507a		
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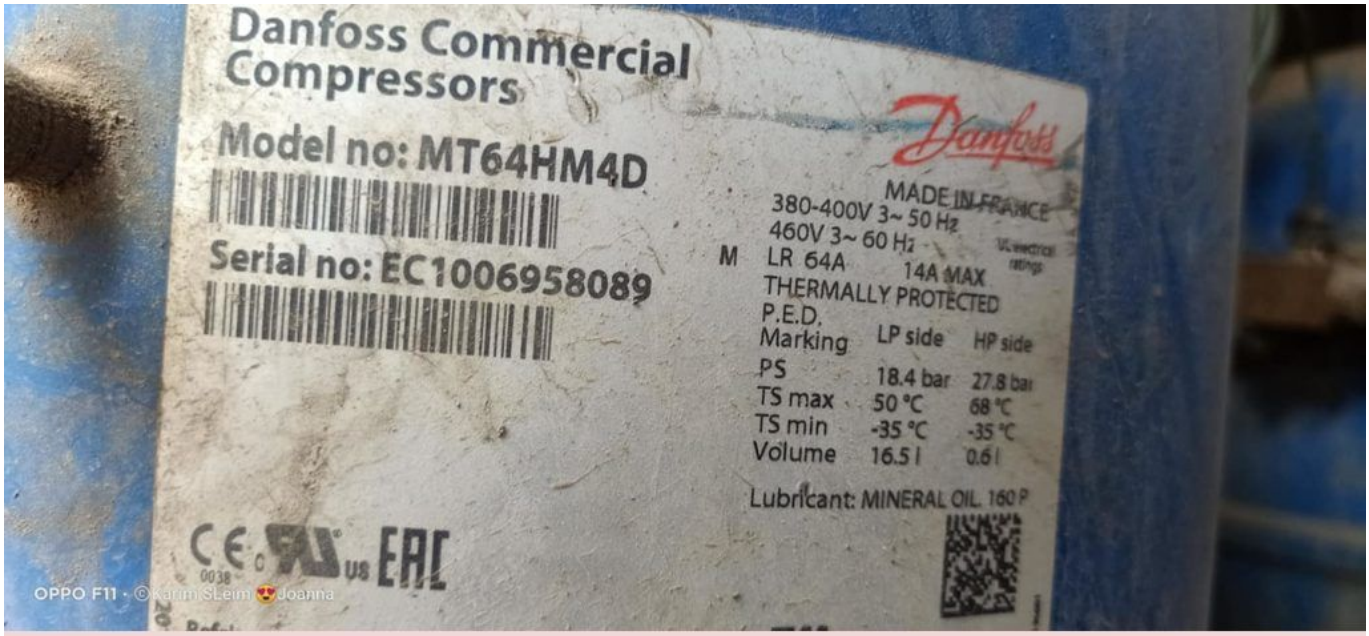
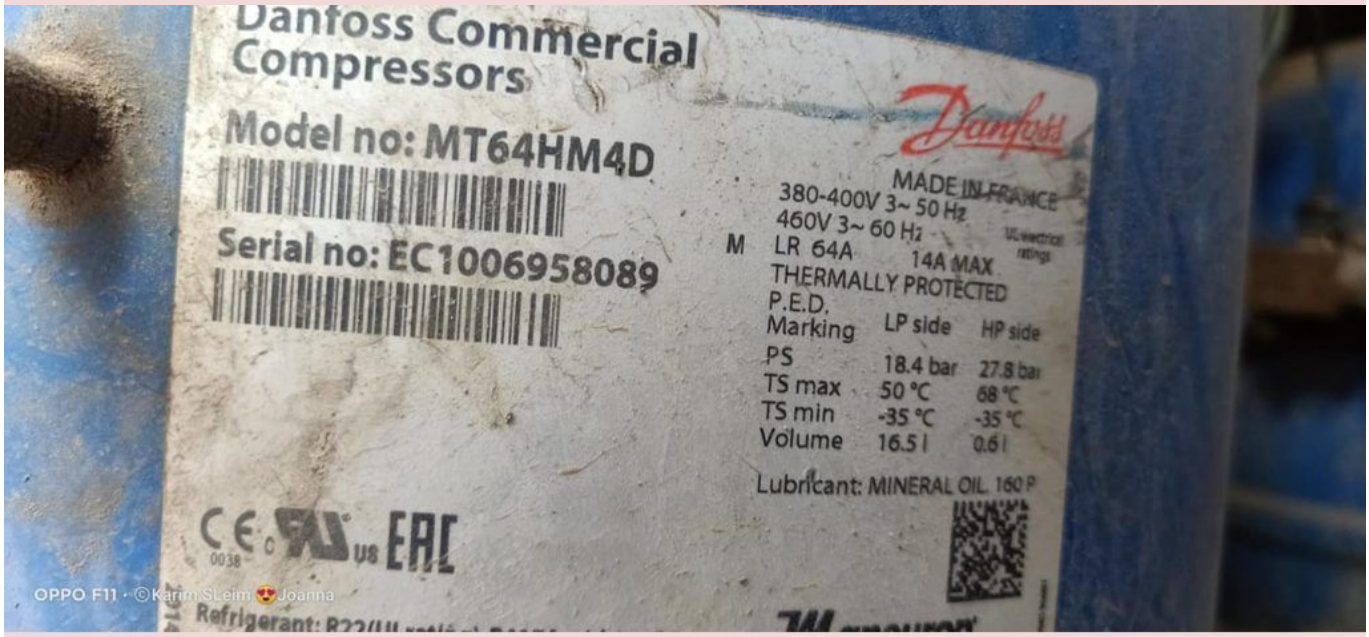
Danfoss, Compressor, 5 Hp, R22, Démontage, ouverture, DESTRUCTION

Category: compressor
written by www.mbsm.pro | 8 April 2021





COMPRESSEUR, DANFOSS, SECOP, NL7.3MF, 105G6772 195B0370, 105G, 6773, R134a, 1/5 Hp, cylindrée 7.27 cc, displacement 7.27 cc, MBP

Category: compressor
written by www.mbsm.pro | 8 April 2021

COMPRESSEUR, DANFOSS, SECOP, NL7.3MF, 105G6772 195B0370, 105G, 6773, R134a, 1/5 Hp, cylindrée 7.27 cc, displacement 7.27 cc, MBP

COMPRESSEUR, EMBRACO, ASPERA, NEK6213GK, HMBP, 1/2+ hp, 614 W

Category: compressor
written by www.mbsm.pro | 8 April 2021

Spécifications techniques

Réfrigérant	R-404A - R-507A	Technologie de compresseur	Hermétique à piston
Application	Moyenne pression - Haute pression	Plage d'application	-20°C à +10°C
Type de tension	Monophasé	Tension	240 / 1 / 50
Cylindrée	12.1cm3	Puissance frigorifique @ -10°C	918W
Intensité maximale	6.01A	Type moteur	CSIR
Détente	Capillaire / Détendeur	Diamètre aspiration ODF	5/16"
Diamètre refoulement ODF	1/4"	Entraxes de fixation	170 x 70
Hauteur	206mm	Charge d'huile	0.35l

- Puissance frigorifique à -10°C 1305 W
- Puissance électrique à -10 °C 614 W
- Puissance en cheval 1/2+ CV
- Alimentation 220-240 V 50 Hz
- Gaz R404a/R507 HMBP
- Moyenne et haute pression
- Complet avec starter, condensateur, boitier et système de fixation

Codes fabricants

- ALPENINOX (anciennement NE9213GK)
- ASCASO-VF.792 (anciennement NE9213GK)
- ASPERA-NE9213GK (anciennement NE9213GK)
- ELECTROLUX-85551 (anciennement NE9213GK)
- EMBRACO-NE9213GK (anciennement NE9213GK)
- EUNASA-21075 (anciennement NE9213GK)
- EURFRIGOR-RB000447 (anciennement NE9213GK)
- ITV-302035 (anciennement NE9213GK)
- WHIRLPOOL-485409918033 (anciennement NE9213GK)
- ZANUSSI-85551 (anciennement NE9213GK)
- ALPENINOX-91161
- ANGELO PO-3138720
- ASPERA-NEK6213GK
- ASPERA-NEK6213GK-CSIR
- ELECTROLUX-91161
- EMBRACO-NEK6213GK
- EMBRACO-NEK6213GK-CSIR
- EMMEPI-8C1300
- FAST RICAMBI-605.125
- GEV-605.125
- MIGEL-1RF173
- SAGI-3138720
- UGOLINI-22807-13010
- VND-605.125
- ZANUSSI-91161

Compressor ASPERA NEK6213GK | NEK 6213 GK

Refigerant	R404A/R507
Working range[stC] **MBP**	-20 do +10

Nominal capacity [W] (evaporating temperature +7,2C, Condensing temperatur +54,4C)	1761
Power supply	220-240V 50Hz
Engine type	CSIR
Displacement [cm³]	12,11
Weight [kg]	11,6

Evaporating temperature +55 C

Evaporating Temperature	**Cooling Capacity +/-5%**			**Power Consumption +/-5%**	**Current Consumption +/-5%**	**Gas Flow Rate +/-5%**	**Efficiency +/-7%**	
°C	(kcal/h)	(W)	(Btu/h)	(W)	(A)	(kg/h)	(kcal/Wh)	(W/W)
-20	514	598	2.040	569	3,87	16,07	0,90	1,05
-15	643	747	2.551	642	4,13	20,19	1,00	1,16
-10	793	922	3.148	717	4,41	25,09	1,11	1,29
-5	966	1.124	3.835	792	4,70	30,85	1,22	1,42
0	1.163	1.352	4.615	868	5,02	37,57	1,34	1,56
5	1.384	1.610	5.493	946	5,36	45,32	1,46	1,70
10	1.631	1.896	6.472	1.025	5,72	54,18	1,59	1,85

Substitutes for this compressor are: Electrolux/Cubigel MP12TB , Danfoss/Secop SC10DL , L’Unite Hermetique/Tecumseh CAE9470Z

Refrigerant: R404A , R507

COMPRESSEUR EMBRACO NEK6213GK
220/240V 50Hz
puissance 1/2 Hp, le déplacement 12,12 cc
gaz réfrigérant R404a/R507 HMBP

LES CODES DE FABRICANT

091161 **ALPENINOX**
3138720 **ANGELO PO**
NEK6213GK **ASPERA**
NEK6213GK-CSIR **ASPERA**
091161 **ELECTROLUX PROFESSIONNEL**
NEK6213GK **EMBRACO**
NEK6213GK-CSIR **EMBRACO**
8C1300 **EMMEPI**
1RF173 **MIGEL**
3138720 **SAGI**
22807-13010 **UGOLINI**
091161 **ZANUSSI**

Alimentation	220/240 V-50 Hz-1 Ph
Chevaux	1/2 hp
Déplacement	12,11 cm3
Application	MHBP
Capacité frigorifique en conditions ASHRAE, R404A/R507	1,76 kW

Capacité frigorifique en conditions EN12900 MT, R404A/R507	0,97 kW
Réfrigérant	R404A, R452A, R507A
Aspiration	3/8″
Refoulement	1/4″
Poids	11,60 kg
Hauteur maximale	206 mm
LRA	19,30 A
Huile de recharge	350 cm3
Type d\’huile	POE 22 ester
Autres remarques	Accessoires de démarrage inclus
Technologie	Vitesse fixe
Type de refroidissement moteur	Ventilateur
Type moteur	CSIR
Type protection moteur	External

Spécifications techniques

Réfrigérant	**R-404A - R-507A**	Technologie de compresseur	**Hermétique à piston**
Application	**Moyenne pression - Haute pression**	Plage d'application	**-20°C à +10°C**
Type de tension	**Monophasé**	Tension	**240 / 1 / 50**
Cylindrée	**12.1cm3**	Puissance frigorifique @ -10°C	**918W**
Intensité maximale	**6.01A**	Type moteur	**CSIR**
Détente	**Capillaire / Détendeur**	Diamètre aspiration ODF	**5/16"**
Diamètre refoulement ODF	**1/4"**	Entraxes de fixation	**170 x 70**
Hauteur	**206mm**	Charge d'huile	**0.35l**

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Embraco®

COMPRESSOR TECHNICAL DATA

Designation	**NEK6213GK**
Nominal Voltage/Frequency	**220-240 V 50 Hz**
Engineering Number	**959BA51**

A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-404A		
3 Nominal voltage and frequency	220-240 / 50	[V / Hz]	
4 Application type	Medium Back Pressure (Commercial Compressors R404A)		
4.1 Evaporating temperature range	-20°C to 0°C	(-4°F to 32°F)	
5 Motor type	CSIR		
6 Starting torque	HST - High starting torque		
7 Expansion device	Capillary tube or Expansion valve		
8 Compressor cooling		Operating voltage range	
		50 Hz	60 Hz
8.1 LBP (32ºC Ambient temperature)	-	-	-
8.2 LBP (43ºC Ambient temperature)	-	-	-
8.3 HBP (32ºC Ambient temperature)	-	-	-
8.4 HBP (43ºC Ambient temperature)	-	-	-
9 Maximum condensing pressures/temperature			
9.1 Operating (gauge)	25.7	[kgf/cm²] (365 psig)	/ ºC - ºF
9.2 Peak (gauge)	28.7	[kgf/cm²] (408 psig)	/ ºC - ºF
10 Maximum winding temperature	130	[°C]	

B - MECHANICAL DATA

1 Commercial designation	1/2+	[hp]
2 Displacement	12.11	[cm³] (0.739 cu.in)
2.1 Bore	27.775	
2.2 Stroke	10.000	
3 Lubricant charge	350	[ml] (11.84 fl.oz.)
3.1 Lubricants approved		
3.2 Lubricants type/viscosity	ESTER / ISO22	
4 Weight(with oil charge)	11.6	[kg] (25.57 lb.)
5 Nitrogen charge	0.2 to 0.3	[kgf/cm²] (2.84 to 4.27 psig)

C - ELECTRICAL DATA

1 Nominal Voltage/Frequency/Number of Phases	220-240 V 50 Hz 1 ~ (Single phase)	
2 Starting device type	Current Relay	
2.1 Starting device		
3 Start capacitor	53-64(330)	[µf(VAC minimum)]
4 Run capacitor	-	[µf(VAC minimum)]
5 Motor protection (external)	T0743/G6	
6 Start winding resistance	20.88	[Ω at 25ºC (77ºF)] +/- 8%
7 Run winding resistance	3.93	[Ω at 25ºC (77ºF)] +/- 8%
8 LRA - Locked rotor amperage (50 Hz)	-	[A] - Measured according to UL 984
9 FLA - Full load amperage L/MBP (50 Hz)	-	[A] - Measured according to UL 984
10 FLA - Full Load Amperage HBP (50 Hz)	-	[A] - Measured according to UL 984
11 Approval boards certification	IMQ	

Compressor ,DANFOSS , 2123 104L,coolant R404a/R507,SC18CL ,220-240V 50Hz, LBP/MBP (csr),hermetic ,13,7kg ,5/8HP (Big),781W

Category: Tester ok
written by www.mbsm.pro | 8 April 2021

Compressor ,DANFOSS , 2123 104L,coolant R404a/R507,SC18CL 220-240V 50Hz, LBP/MBP (csr),hermetic ,13,7kg ,5/8HP (Big),781W