

Mbsm.pro, Understanding, Motor, Starting, Systems, for, Compressor

Category: Chaud&Froid

written by www.mbsm.pro | 18 January 2025

TABLAS DE CARACTERISTICAS VARIOS SISTEMAS DE ARRANQUE Y PROTECCIÓN



Model	Connect current(A)	Release current(A)	Overload current(A)	Applied Temperature $^{\circ}$ C	Connect temperature $^{\circ}$ C
117 μ 2010	2	1.6	4	105 \pm 10	60 \pm 10
117 μ 2030	3	2.6	5		
117 μ 2040	4	3.6	6.5		
117 μ 2050	4.6	4.2	6.5		



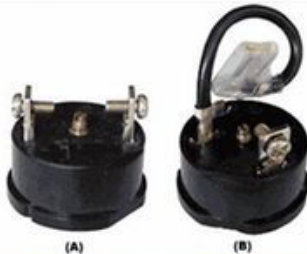
The specification(HP)	1/8	1/6	1/5	1/4	1/3	1/2	3/8
Compressor power(W)	93	125	150	180	245	375	275
Max Connection current(A)	3.0	3.6	4.25	4.75	5.30	6.50	6.0
Min release current(A)	2.6	3.0	3.35	3.75	4.25	5.0	4.75



Compressor power(HP)	Compressor powe Model		
		Max connect current(A)	Minimum release current(A)
1/12	B5A15	1.85	1.6
1/8	B8A10	2.43	2.07
1/6	B10A19	3	2.56
1/5	B12A12	3.5	2.95
1/4	B16A13	5.15	4.85
1/3	B9A11	7	5.9



The specification(HP)	1/12	1/10	1/8	1/7	1/6	1/5	1/4	1/3	1/2
Compressor power(W)	61	74	93	105	125	150	180	245	370
Max connect current(A)	2	2.5	3	3.3	3.6	4.75	5.35	6	7.5
Release current(A)	1.6	2	2.6	2.8	3	3.35	4.25	4.75	6



The specification(HP)	Overload current(A)	Movement temperature	Reply return temperature
3	35	125 \pm 10 $^{\circ}$ C	60 \pm 10 $^{\circ}$ C
5	40		



The specification	Compressor power	Overload current(A)	Applied temperature	Restored temperature
JRT4-2/3	450W(2/3HP)	14	125-155 $^{\circ}$ C	50-80 $^{\circ}$ C
JRT4-10	750W(1HP)	16		
JRT4-13	975W(1.3HP)	20		
JRT4-15	1100W(1.5HP)	24		
JRT4-20	1500W(2HP)	30		

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Understanding the specifications of motor starting systems is crucial for optimizing performance and ensuring the longevity of your equipment. This guide provides a detailed breakdown of various motor starting systems, including their current ratings, temperature ranges, and power requirements. Whether you're working with compressors or other industrial machinery, this information will help you select the right system for your needs. Dive into the tables below to explore the key characteristics of each system and make informed decisions for your applications.

Mbsm.pro, Motor, compressor, type, RSIR, RSCR, CSIR, CSCR, PSC

Category: compressor

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(1) RSIR

Resistance start induction run

(2) RSCR

Resistance start capacitor run

(3) CSIR

Capacitor start induction run

(4) CSCR/CSR

Capacitor start capacitor run

(5) PSC

Permanent split capacitor

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(1) RSIR

Resistance start induction run

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Resistance start capacitor run

(3) CSIR

Capacitor start induction run

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Capacitor start capacitor run

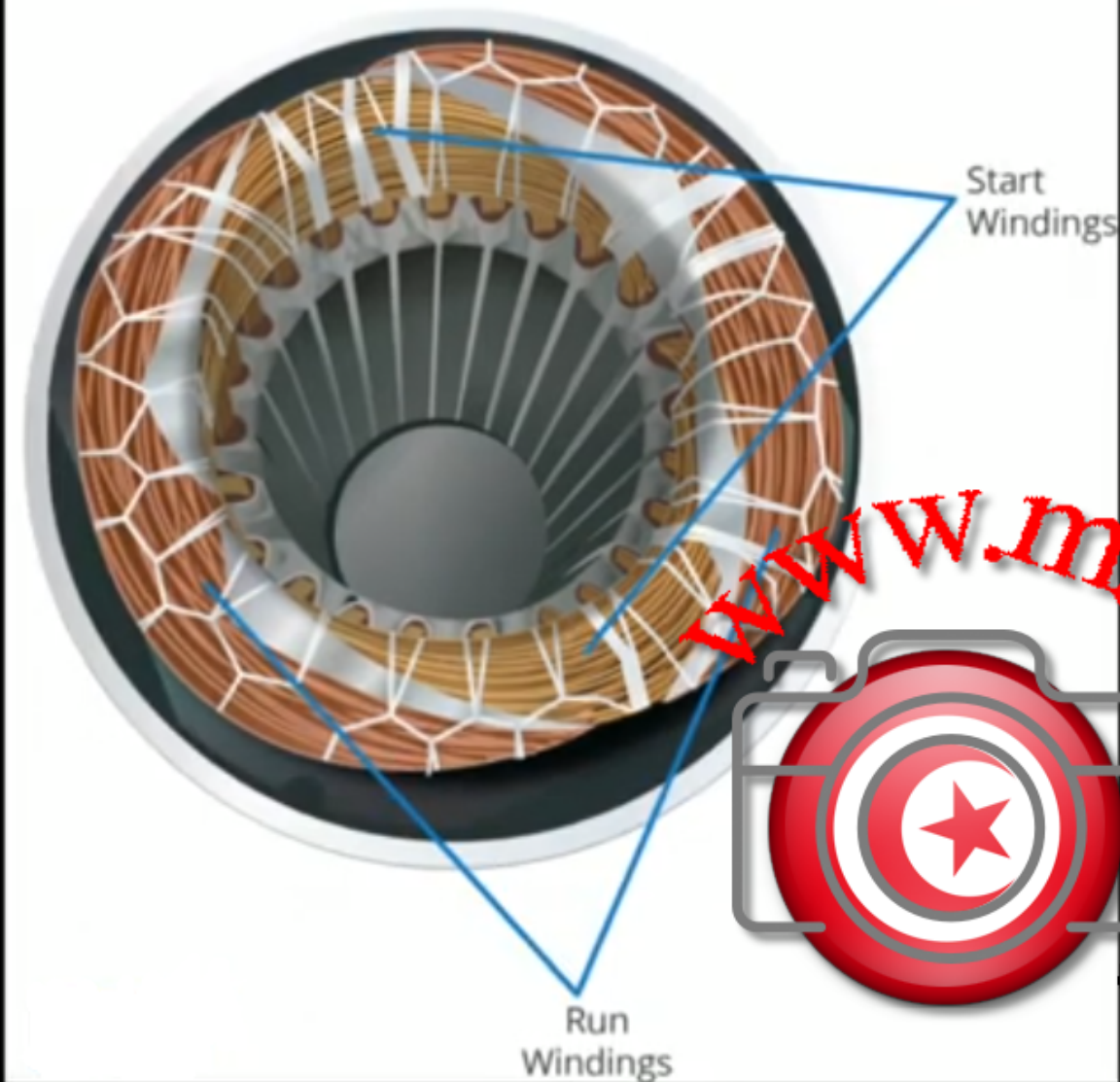
(5) PSC

Permanent split capacitor

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Compressor Windings



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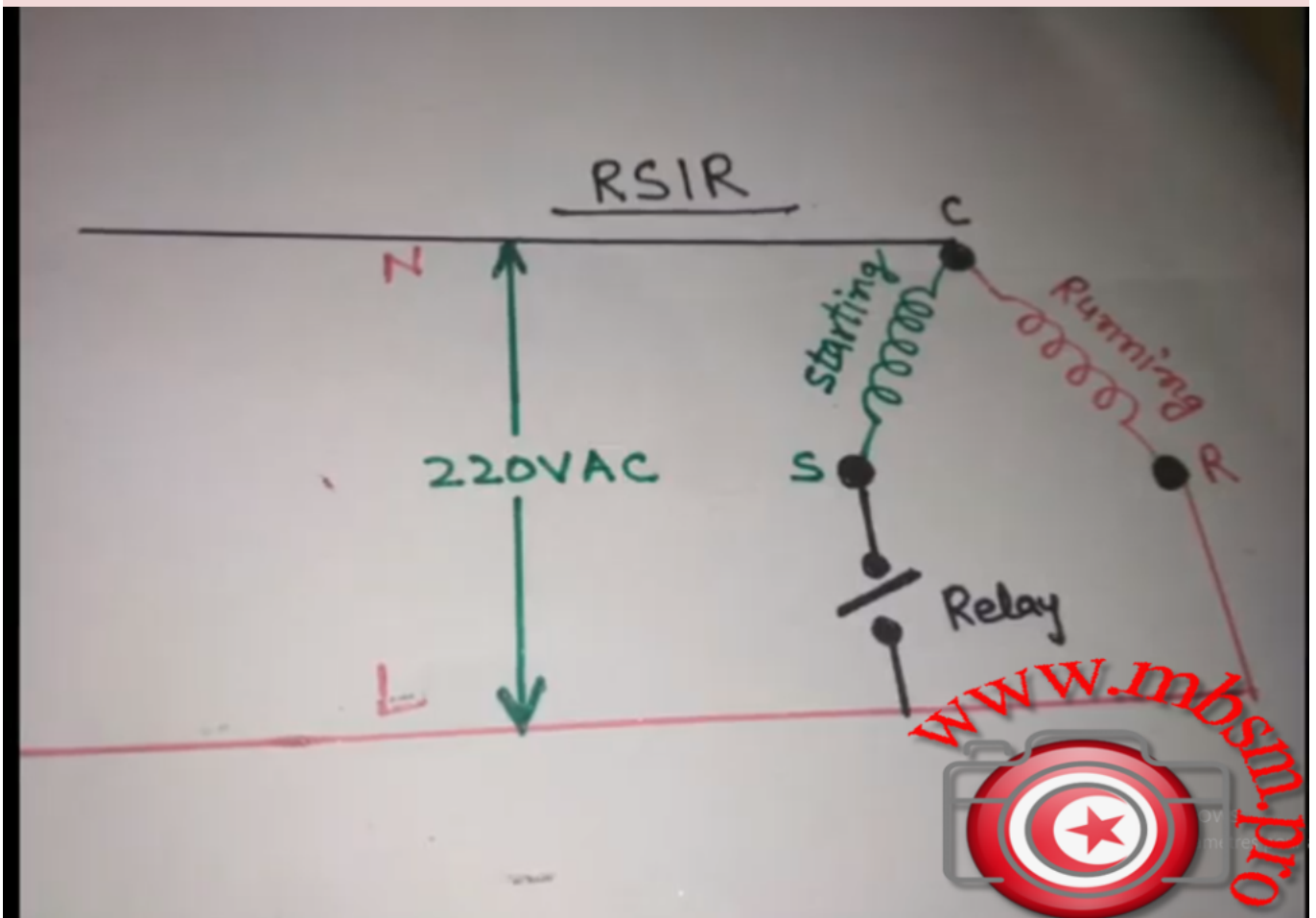
(1) RSIR
Resistance start induction run

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RSIR



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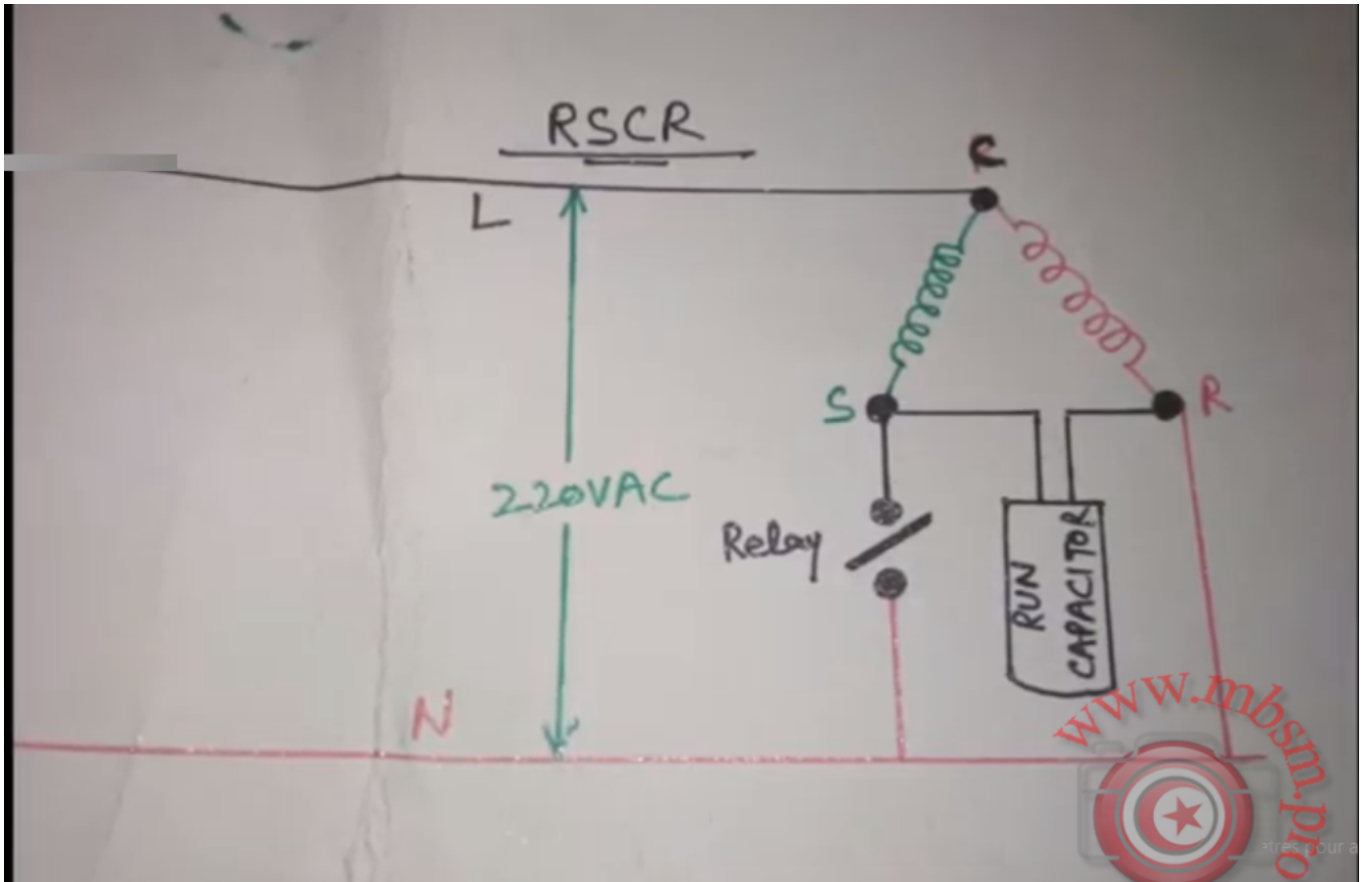
(2) RSCR Resistance start capacitor run

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RSCR



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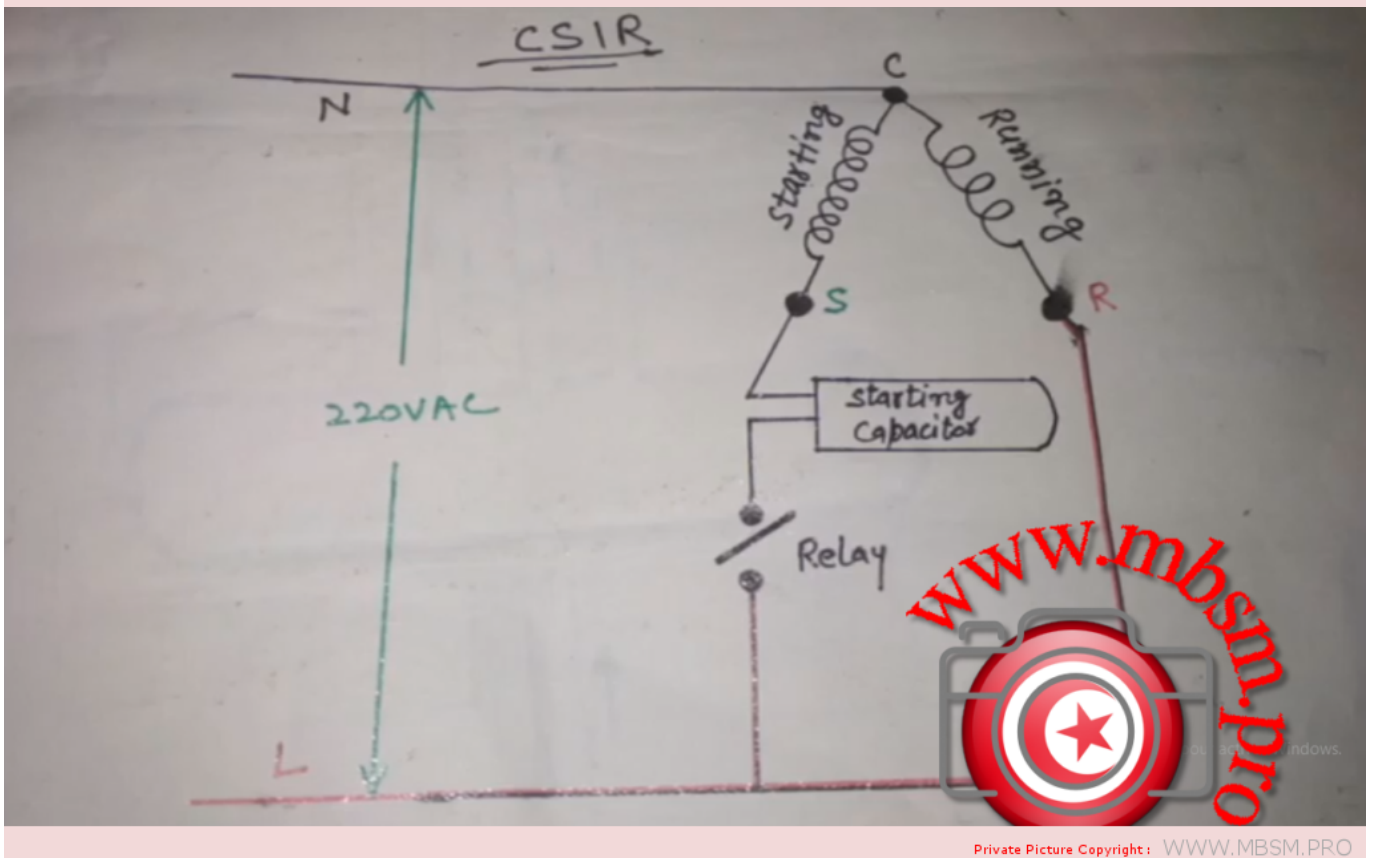
(3) CSIR Capacitor start induction run

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CSIR



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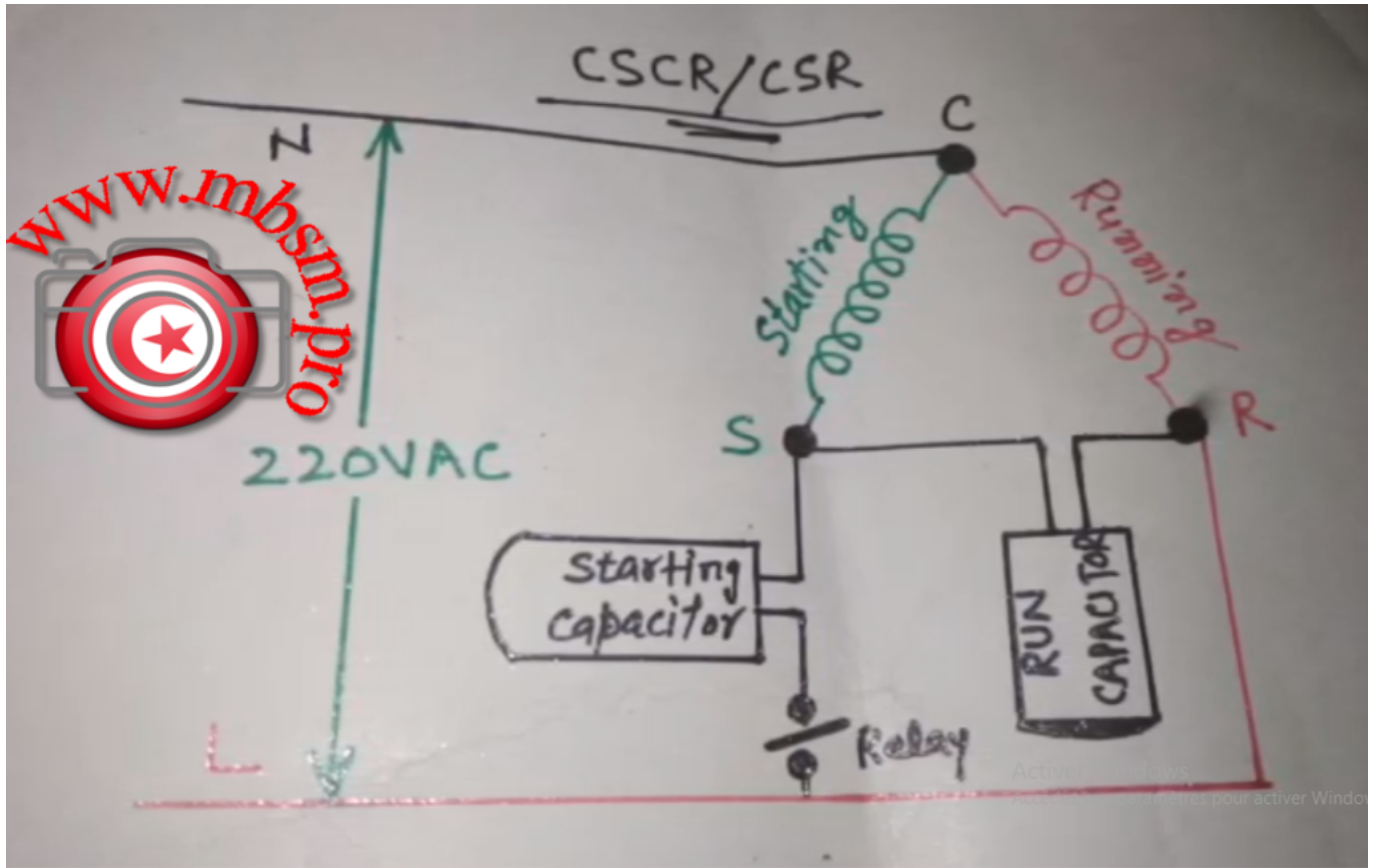
(4) CSCR/CSR Capacitor start capacitor run

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CSCR/CSR



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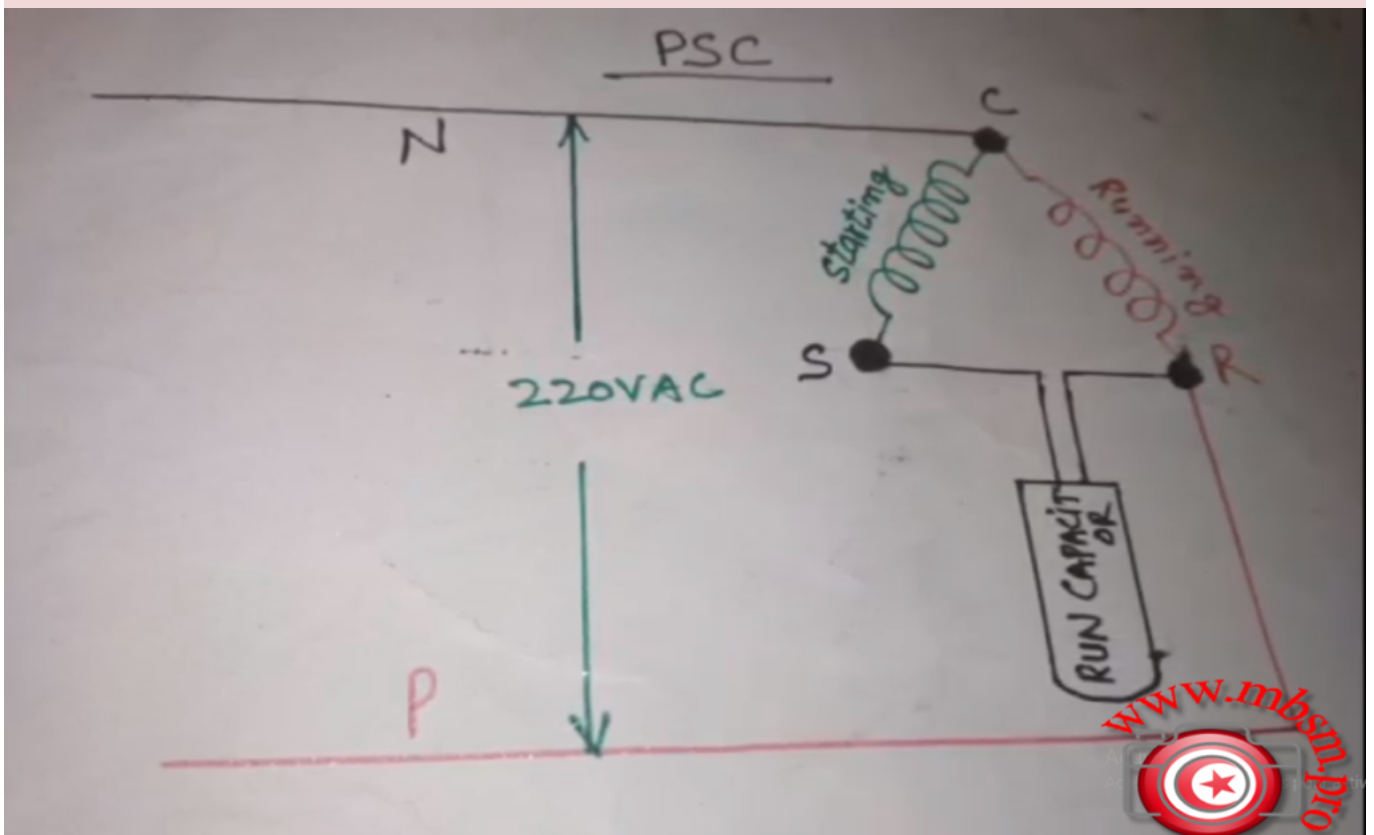
(5) PSC Permanent split capacitor

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PSC



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Compressor, NPT12FSC, CUBIGEL, R290,
12,10ccm, LBP, 3/8HP, 220 V 50/60 Hz

Category: compressor

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Compressor, NPT12FSC, CUBIGEL, R290, 12,10ccm, LBP, 3/8HP, 220 V 50/60 Hz

R134A, LBP, Motor, Danfu, Compressor , PW2.0VK, 1/15hp

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R134A, LBP, Motor, Danfu, Compressor , PW2.0VK, 1/15hp

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

Category: compressor, Files

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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.

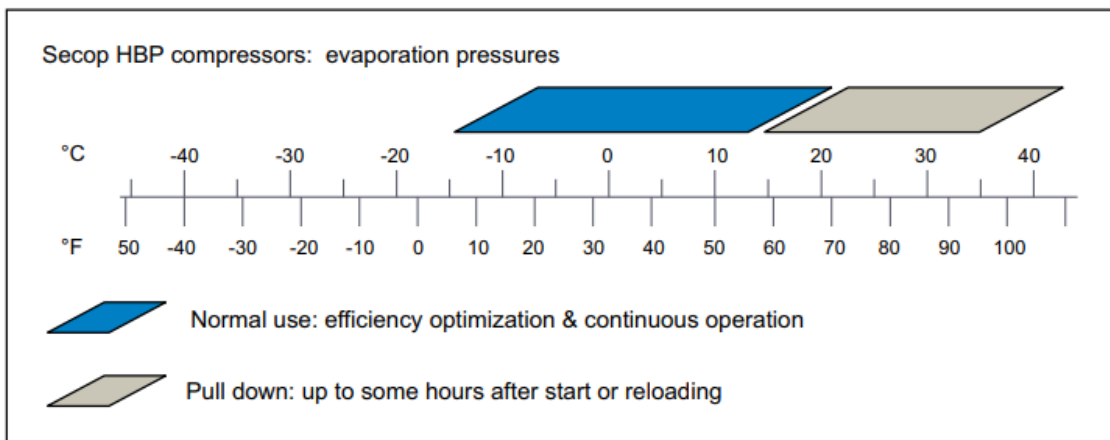
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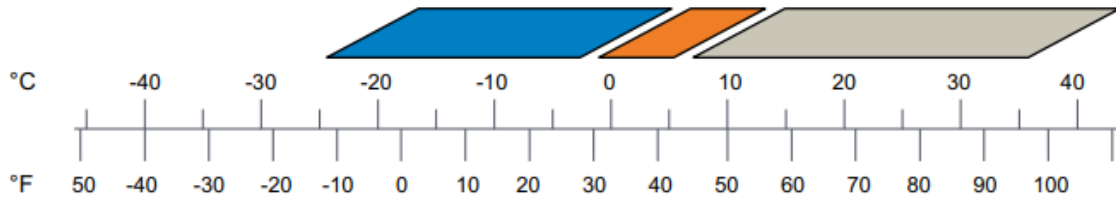





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Secop MBP compressors: evaporation pressures

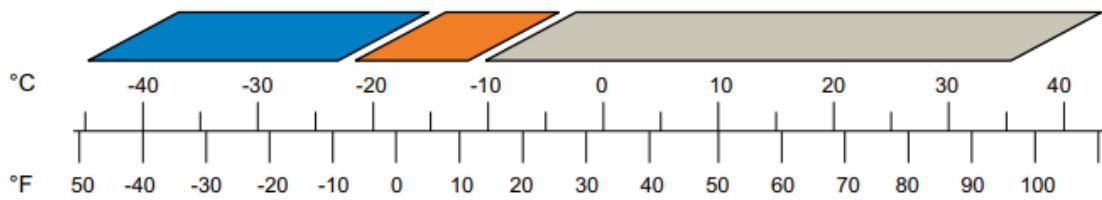





-  Normal use: efficiency optimization & continuous operation
-  High load: continuous operation
-  Pull down: up to some hours after start or reloading



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Secop LBP compressors: evaporation pressures



-  Normal use: efficiency optimization & continuous operation
-  High load: continuous operation
-  Pull down: short time operation (<60min.) after start or defrost



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Compressor, Zanussi, HLY80AA, 1/7Hp, 220-240V 50Hz ~1, R600a, ZEM, Low Back Pressure, RSIR

Category: compressor

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Technical Data Sheet

Compressor model HLY80AAa

Voltage 220-240V 50Hz ~1

Refrigerant R600a

APPLICATION COMPRESSOR MOTOR

Application Low Back Pressure Displacement 8,10 cm³ Nominal Power 1/7 hp

Refrigerant R600a Diameter 24,29 mm Voltage/Frequency 220-240V 50Hz
Evaporating Temp. -35,0 °C to -10,0 °C Stroke 17,47 mm Voltage range 187-264 V
Expansion Capillar Net Weight 9,45 Kg Type RSIR
Comp. Cooling Static Oil type ISO VG 10 MINER Phase number 1 PH
Max. ambient temp. 43,0 °C Oil charge 205 cm³ Locked Rotor Amps (LRA) 8,60 A
Max. Cont. Current (MCC) 1,00 A
Main W. resist. at 25°C 22,02 Ω
Start W. resist. at 25°C 22,53 Ω

NOMINAL PERFORMANCE

ASHRAE CECOMAF

Cooling Capacity 113 kCal/h 99 W
COP 1,41 W/W 1,11 W/W
EER 1,22 kCal/Wh 0,96 kCal/Wh
Input Power 93 W 89 W
Current 0,62 A 0,60 A

TEST CYCLE CONDITIONS

ASHRAE CECOMAF

LBP (B) LBP (A)

Evaporating temp. -23,3 °C -25,0 °C
Condensing temp. 55,0 °C 55,0 °C
Liquid temp. 32,0 °C 55,0 °C
Ambient temp. 32,0 °C 32,0 °C
Suction temp. 32,0 °C 32,0 °C
Voltage/Frequency 220 V 50 Hz 220 V 50 Hz

ELECTRICAL COMPONENTS

Relay Option 1

Reference PTC K100

Voltage 200-240 V

Resistance 14.00 Ω

Protector Option 1 Option 2 Option 3 Option 4

Reference MSP318LZ 4TM189NFBYY T0462 AE37FJ

Current 5,90 A 5,50 A 6,20 A 5,90 A

Time check 7,5-14 seg 5-15 seg 7,5-14 seg 7,5-14 seg

Disc temp. (Open/Close) 120,00 / 61,00 °C 120,00 / 61,00 °C 110,00 / 62,00 °C
115,00 / 62,00 °C

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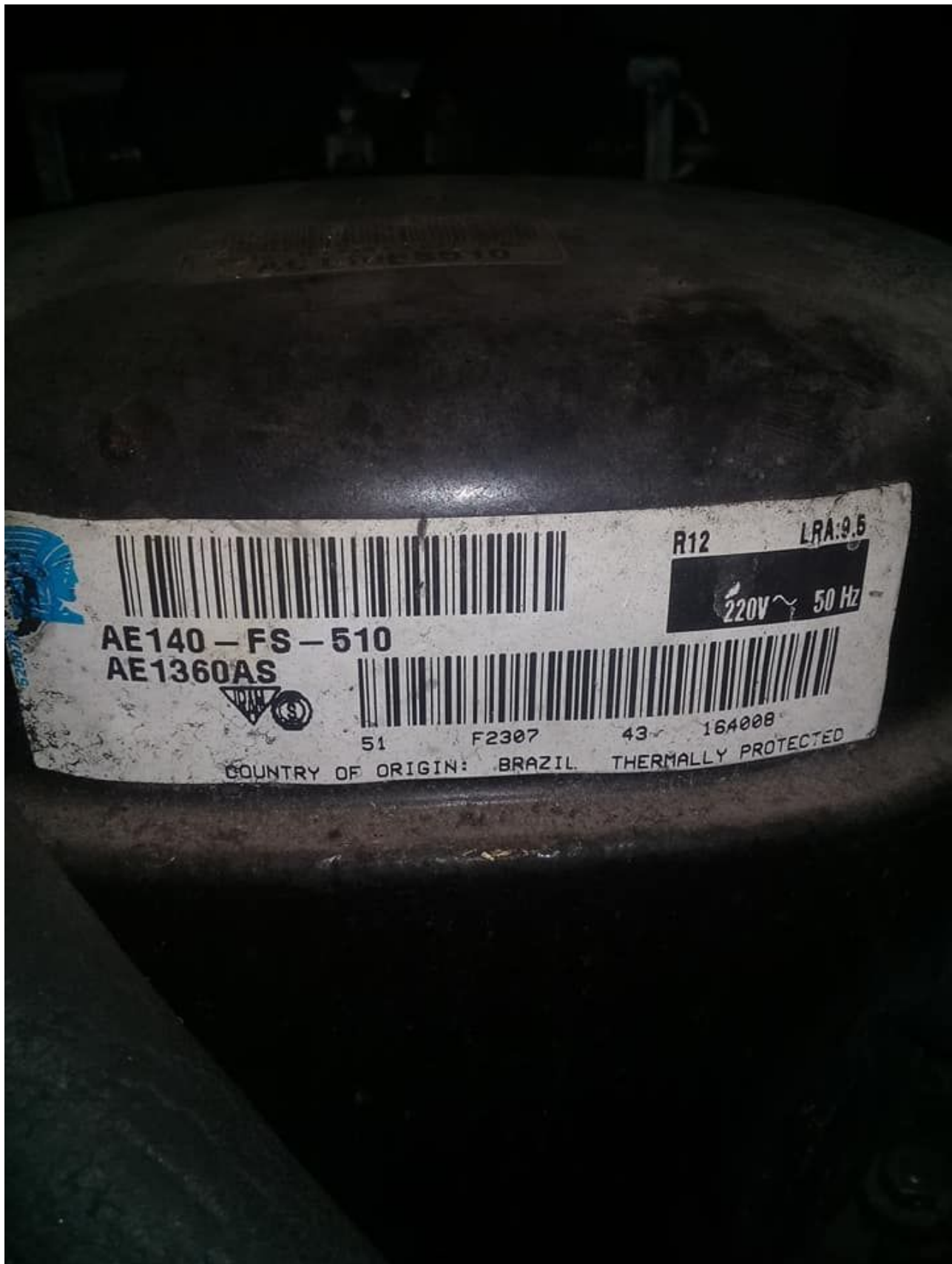
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smart

TECUMSEH EUROPE, COMPRESSEUR,
REFROIDISSEUR, AE1360AS, 1/5 HP,
AE140-FS-510, Lra 9.5, LBP, R12,
220-240V ~ 50Hz

Category: compressor

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Model:AE1360AS

Product Description

Type: Reciprocating

Application: LBP – Low Back Pressure

Refrigerant: R12

Voltage/Frequency: 220-240V ~ 50Hz

Product Specifications

Performance

Refrigeration Capacity Input Power Efficiency

EVAP

TEMP COND AMBIENT RETURN LIQUID

Condition TEMP TEMP GAS TEMP

Test

Voltage Btu/h kcal/h W W Btu/Wh kcal/Wh W/W

ASHRAE

240V ~

50HZ 560 141 164 157 3.57 .9 1.05

-23°C (-

10°F) 54°C (130°F) 32°C (90°F) 32°C (90°F) 32°C (90°F)

General

Evaporating Temp. Range: -34.4°C to -12.2°C (-30°F to 10°F)

Motor Torque:

Low Start Torque

(LST)

Compressor Cooling: Static

Mechanical

Weight: 10.231

Weight Unit of Measure: KG

Displacement (cc): 7.55

Oil Type: N/A

Viscosity (cSt): N/A

Oil Charge (cc): N/A

Electrical

Voltage Range (50 Hz): 198-253

Voltage Range (60 Hz): N/A

Locked Rotor Amps (LRA): 11

Rated Load Amps (RLA 50 Hz): 1.12

Rated Load Amps (RLA 60 Hz): N/A

Max. Continuous Current (MCC in Amps): N/A

Motor Resistance (Ohm) – Main: 11.06

Motor Resistance (Ohm) – Start: 44.87

Motor Type: RSIR

Overload Type: N/A

Relay Type: Current Relay



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Mbsm_dot_pro_private_PDF_AE1360ASTélécharger
Mbsm_dot_pro_private_PDF_AE1360AS-1Télécharger
Mbsm_dot_pro_private_PDF_AE1360AS-2Télécharger

refrigerator compressor, LBP, 1/6Hp,
GFF44AA, GFF75AA, R134a,
220-240V~50Hz , RSIR, 130W , 0.65A,
Cop: 1.31, Oil charge: 200ml,
Compresseurs hermétiques Siberia

Category: compressor

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: GFF44AA	Model: GFF44AA
: 4.4cm	Dispi: 4.4cm
: RSIR/RSCR	Motor Type: RSIR/RSCR
: 130W	Cooling Capacity: 130W
: 99/93W	Input power: 99/93W
: 0.65/0.53A	Rated Current: 0.65/0.53A
: 1.31/1.40	Cop: 1.31/1.40
: 200	Oil Charge: 200



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Modèle	Puissance Hp	Déplacement	Capacité de refroidissement	Type de moteur	La puissance d'entrée	Courant évalué	FLIC
GFM44AA	1/6	4,6	120	RSIR	100	0,70	1,20
GFM53AA	1/6 +	5,3	145	RSIR	114	0,88	1,27
GFM57AA	1/5	5,7	165	RSIR	132	0,97	1,25
GFM75AA	1/4 +	7,5	215	RSIR	159	1,20	1,35
GFM10AA	1/3 +	10,0	295	RSIR	220	1,55	1,34
GFM12AA	1 / 2-	12,0	330	RSIR	235	1,85	1,40
GFM12AA_S	1 / 2-	12,0	330	RSIR	235	1,85	1,40

Série F (F) 220-240V / 50Hz

GFF44AA	1/6	4,6	130	RSIR / RSCR	99/93	0,65 / 0,53	1,31 / 1,40
GFF57AA	1/5	5,7	165	RSIR / RSCR	115/110	0,77 / 0,57	1,43 / 1,50
GFF66AA	1/4	6,6	195	RSIR / RSCR	143/129	0,92 / 0,74	1,36 / 1,51
GFF75AA	1/4 +	7,5	215	RSIR / RSCR	156/147	1,15 / 0,83	1,38 / 1,46
GFF86AA	1/3	8,6	250	RSIR / RSCR	179/164	1,24 / 0,90	1,40 / 1,52
GFF93AA	1/3 +	9,3	270	RSIR / RSCR	185/175	1,25 / 0,95	1,46 / 1,54

Compresseur haute efficacité série F (T) 220-240V / 50Hz

GFT36AA	1/7	3,6	110	RSCR	68	0,32	1,62
GFT44AA	1/6	4,4	130	RSCR	81	0,43	1,60
GFT53AA	1 / 5-	5,3	145	RSCR	96	0,53	1,50
GFT57AA	1/5	5,7	165/168	RSCR	104/98	0,55 / 0,49	1,60 / 1,70
GFT61AA	1/5 +	6,1	182	RSCR	107	0,53	1,70
GFT66AA	1/4	6,6	195	RSCR	115/113	0,58 / 0,55	1,68 / 1,72
GFT75AA	1/4 +	7,5	220	RSCR	129	0,69	1,70
GFT86AA	1/3	8,6	250	RSCR	148	0,73	1,70
GFT93AA	1/3 +	9,3	270	RSCR	166	0,84	1,65

Série F 115V / 60Hz

GFM44AD	1/6 +	4,6	145	RSIR	111	1,62	1,30
GFM53AD	1/4	5,3	185	RSIR	131	1,75	1,30
GFM57AD	1/4	5,7	195	RSIR	138	1,85	1,30
GFM61AD	1/4 +	6,1	210	RSIR	168/150	2,75 / 1,90	1,25 / 1,40
GFR40AD	1/6	3,6	120	RSCR	84,6	7/8	1,42
GFR57AD	1/4	5,7	195	RSCR	116	1,2 / 7	1,55
GFM93AD	1/4	9,3	305	RSIR	218	3.2	1,40

Série F 200-220V / 50Hz

GFF53AT	1/6 +	5,3	150	RSCR	106	0,67	1,42
GFF57AT	1/5	5,7	165	RSCR	118	0,86	1,40
GFF66AT	1/4	6,6	196	RSCR	138	1,02	1,42
GFF75AT	1/4 +	7,5	218	RSCR	147	1,07	1,48
GFF86AT	1/3	8,6	250	RSCR	168	1.14	1,49
GFF93AT	1/3 +	9,3	275	RSCR	185	1,23	1,49

Série F 100V-50 / 60Hz

GFF66AJ	1/4	6,6	195/233	RSCR	135/152	2,15 / 1,95	1,44 / 1,53
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GFF93AJ	1/3	9,3	270/305	RSCR	190/205	2,95 / 2,58	1,42 / 1,49
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Compresseur série F M / HBP R134a

220-240V 50 / 60Hz

GFL60AG_AL	3/4	5,3	550/650	CSIR	245/265	1,88 / 1,69	2,24 / 2,45
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220 à 240 V 50 Hz

GFL80AA	1	7,5	720	CSIR	317	1,96	2,27
GFL10AA	1.2	9,3	880	CSIR	430	2,50	2.0

Compresseur série F LBP R600a

Série F (M / F) 220-240V / 50Hz

BFM86AA	1/6 +	8,6	142	RSIR	101	0,82	1,40
BFF86AA	1/6	8,6	142	RSIR / RSCR	93/90	0,65 / 0,51	1,53 / 1,58
BFM93AA	1/5	9,3	155	RSIR	108	0,85	1,43
BFF93AA	1/5	9,3	160	RSIR / RSCR	103/98	0,73 / 0,58	1,55 / 1,63
BFM10AA	1/5 +	10,0	168	RSIR	122	1,01	1,38
BFF11AA	1/4	10,5	185	RSIR	121	0,70	1,45
BFM12AA	1/4 +	12,0	202	RSIR	144	1.10	1,40
BFF12AA	1/4 +	12,0	202	RSIR / RSCR	130/123	1,04 / 0,75	1,55 / 1,64

Compresseur haute efficacité série F (T) 220-240V / 50Hz

BFT57AA	1 / 7-	5,7	95	RSCR	53/50	0,28 / 0,24	1,80 / 1,90
BFT75AA	1/6	7,5	130	RSCR	75/72	0,35	1,73 / 1,80
BFT86AA	1/5	8,6	142	RSCR	82/74	0,43 / 0,36	1,73 / 1,92
BFT93AA	1/5	9,3	155	RSCR	82	0,50	1,90
BFT10AA	1/5 +	10,0	175	RSCR	100/92	0,60 / 0,43	1,72 / 1,90
BFT11AA	1/4	10,0	180	RSCR	100	0,54	1,80
BFT12AA	1 / 4-	11,5	200/210	RSCR	116/114	0,54 / 0,52	1,72 / 1,86

Série F 200-220V / 50Hz

BFF75AT	1/6	7,5	130	RSCR	80	0,46	1,63
BFF86AT	1/5	8,6	142	RSCR	91,5	0,65	1,55
BFM93AT	1/5	9,3	158	RSIR	112	0,93	1,41
BFF93AT	1/5	9,3	160	RSCR	100	0,66	1,60
BFF11AT	1/4	11	175	RSCR	110	0,76	1,60
BFT12AT	1/4	11,5	200	RSCR	130	1.0	1,50

Série F 115 / 60Hz

BFR57AD	1/6	5,7	120	RSCR	75	0,73	1,60
BFR75AD	1 / 5-	7,5	156	RSCR	92	0,90	1,70
BFM10AD	2/7	10,0	200	RSCR	133	1,55	1,50
BFR10AD	2/7	10,0	195	RSCR	116	1,32	1,65
BFM12AD	1/3	11,0	230	RSCR	153	1,65	1,50

Compresseur série F LBP R290a

220 à 240 V / 50 Hz

PFT61AA	3/8	6,1	285	RSCR	183	1,55
PFT66AA	3/8	6,6	310	RSCR	200	1,56
PFT66AA ©	3/8	6,6	310	RSCR	190	1,65
PFT75AA	1 / 2-	7,5	350	RSCR	216	1,62
PFT75AA ©	1 / 2-	7,5	350	RSCR	206	1,70
PFT86AA	1/2	8,6	388	RSCR	258	1,50
PFT86AA ©	1/2	8,6	421	RSCR	263	1,60
PFT93AA ©	3/5	9,3	455	RSCR	284	1,60

Compresseur série F L / MBP R290

220 à 240 V / 50 Hz

PFL57AA	1/3	5,7	255/490	CSIR	170/235	1,50 / 2,09
PFL75AA	1 / 2-	7,5	350/657	CSIR	248/324	1,41 / 2,03

: GFF44AA	Model: GFF44AA
: 4.4cm	Dispi: 4.4cm
: RSIR/RSCR	Motor Type: RSIR/RSCR
: 130W	Cooling Capacity: 130W
: 99/93W	Input power: 99/93W
: 0.65/0.53A	Rated Current: 0.65/0.53A
: 1.31/1.40	Cop: 1.31/1.40
: 200	Oil Charge: 200



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Product Detailed

- 1.pass CB,3C,CE,RoHS
 - 2.excellent start performance
 - 3.strong ability of cooled ambient
 - 4.low noise,low power consumption
- R134a Fluorine-free Freezing Compressor LBP

Model	Displ. (cm3)	Power HP	Motor Type	Volt.- Frequency	Cooling Capacity	Input Power	Rated Current(A)	COP(W/W)	Oil Charge Volume
GFF44AA	4.4	1/6	RSIR/RSCR	220-240V~50HZ	130	99/93	0.65/0.53	1.31/1.40	200
GFF57AA	5.7	1/5	RSIR/RSCR	220-240V~50HZ	166	122/112	0.86/0.62	1.36/1.48	200
GFF66AA	6.6	1/4	RSIR/RSCR	220-240V~50HZ	195	143/132	0.92/0.74	1.36/1.48	200
GFF75AA	7.5	+1/4	RSIR/RSCR	220-240V~50HZ	215	156/147	1.15/0.83	1.38/1.46	200
GFF86AA	8.6	1/3	RSIR/RSCR	220-240V~50HZ	250	156/148	1.24/0.90	1.40/1.52	200
GFF93AA	9.3	1/3	RSIR/RSCR	220-240V~50HZ	270	156/149	1.25/0.95	1.46/1.54	230

Test Conditions(ASHRAE)

Evaporating temperature -23.3°C
 Condensing temperature 54.4°C
 Subcooling temperature 32.2°C
 Suction temperature 32.2°C
 Ambient temperature 32.2°C

About Advantages of Model GFF44AA, 1/6HP
 1.high efficiency, energy-saving
 2.R134a fluorine- free compressor
 3.adjustable low-carbon emission
 4.excellent cooling

speed, large capacity

About More Application of Model GFF44AA

1. fit for small ice machine(maker)
2. suitable for home fridge or freezer
3. ice cream display, showcase, wine display, and other freezing equipments

About Compressor Spare Parts

1. four rubber sleeve
2. one PTC starter
3. one capacitor
4. one relay cover
5. one overload protector
6. four shockproof rubber washer

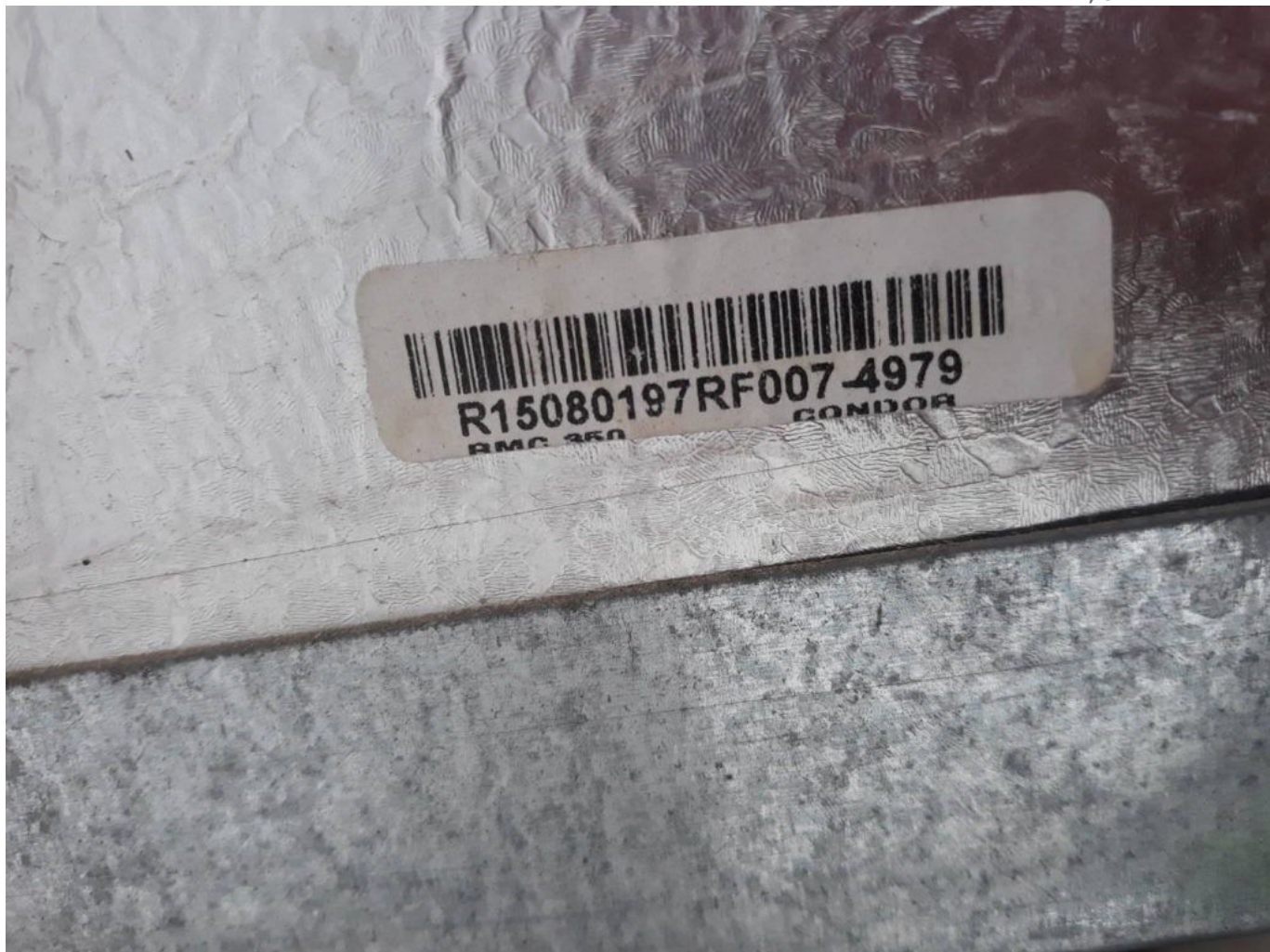


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- GTM 45 AA 1/6 130 watts R 134 A
- GFF 57 CR 1/5 166 watts R 134 A
- GFF 66 AA 1/4 195 watts R 134 A
- GFF 75 AA 1/4 + 215 watts R 134 A
- BFF 12 AA 1/4 202 watts R 600 A

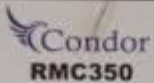
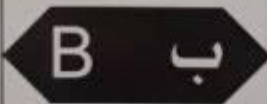

MODÈLE	PUISSANCE HP	TENSION	DÉPLACEMENT (CM ³)	CAPACITÉ DE REFROIDISSEMENT [W / CAL]	PUISSANCE D'ENTREE [W]	TYPE DE MOTEUR	COPW / W	CHARGE D'HUILE (ML)
GFF44AA1/6	HP	220 ~ 240V-50Hz	4,6	130/112	99/93	RSIR / RSCR	1,31 / 1,40	1,31 / 1,40
GFF57AA1 / 5Hp		220 ~ 240V-50Hz	5,7	166/143	122/112	RSIR / RSCR	1,36 / 1,48	200
GFF66AA1 / 4Hp		220 ~ 240V-50Hz	6,6	195/170	143/132	RSIR / RSCR	1,36 / 1,48	200
GFF75AA1/4 + Hp		220 ~ 240V-50Hz	7,5	215/185	156/147	RSIR / RSCR	1,38 / 1,46	200

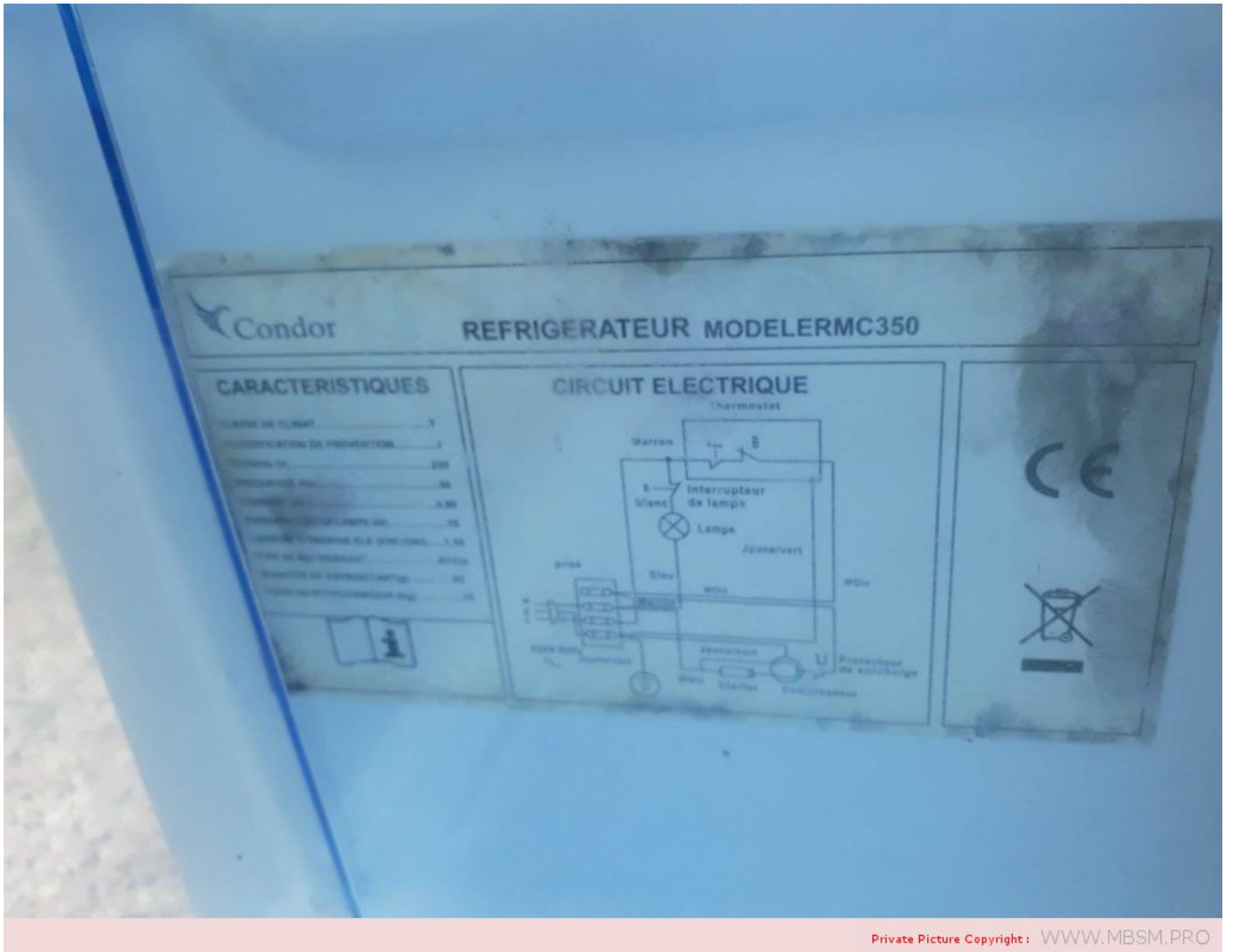
BFF12AA1 / 4Hp 220 ~ 12,0 202/174 130/123 RSIR / 1,55
240V-50Hz RSCR / 200
1,64







Energie	APRUE	طاقة
Fabricant Modèle		الصانع النموذج
Économe		مقتصد
Peu économe	219	قليل الاقتصاد
Consommation d'énergie kWh/an <small>Sur la base du résultat obtenu pour 24h dans des conditions d'essai normalisées</small>	كمية استهلاك الطاقة كيلو واط ساعي في السنة على أساس النتيجة للحصول عليها في فترة 24 ساعة ضمن شروط الاختبار القياسية	
<small>Le consommateur réel dépend des conditions d'utilisation et de la localisation de l'appareil</small>	الاستهلاك الحقيقي يتوقف على ظروف الاستخدام و مكان وجود الجهاز	
Capacité de denrées fraîches l Capacité de denrées congelées l	285 30	السعة المخصصة للمواد المبردة ل السعة المخصصة للمواد المجمدة ل
Bruit <small>(dB(A)re 1 pW)</small>	≤45	الضجيج <small>(dB(A)re 1 pW)</small>
Une fiche d'information		بطاقة معلومات



3HP , 2CC-3.2 , Bitzer , Semi hermetic , Refrigeration , Compressor , for cold storage

Category: Technologie, Tester ok
written by www.mbsm.pro | 18 January 2025



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3HP , 2CC-3.2 , Bitzer , Semi hermetic , Refrigeration , Compressor , for cold storage

High Efficiency Refrigerator , Compressor , Lbp , QD65H , 1/5HP , 60Hz , 6.5CC, 185W , R134a , LBP Piston Reciprocating

Category: Technologie, Tester ok
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Picture5 Mbsm Dot Pro : www.mbsm.pro

High Efficiency Refrigerator , Compressor , Lbp , QD65H , 1/5HP 60Hz 6.5CC 185W