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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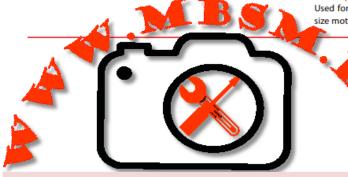
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Type of starting device

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.

 ${\sf NTC}$ — (Negative Temperature Coefficient), the resistance decreases with the temperature. Used in some CSR in order to reduce dimensions and components.

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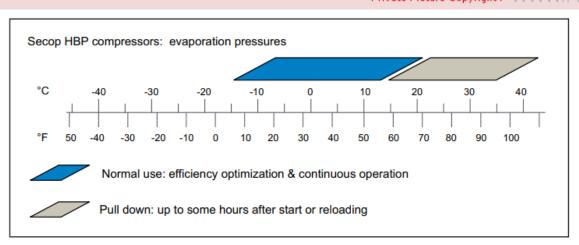
Type of torque

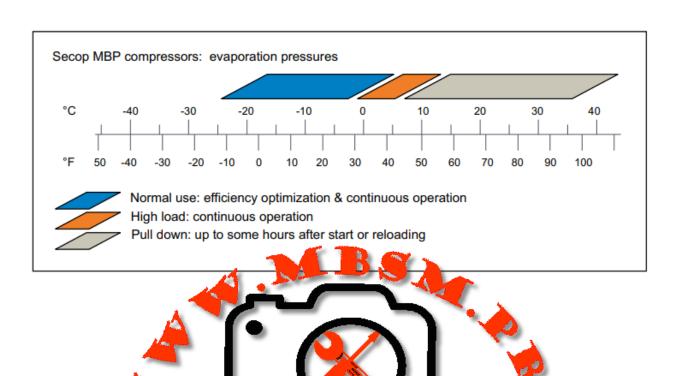
LST — Low Starting Torque — Systems with capillary tube or balanced pressures at start up.

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

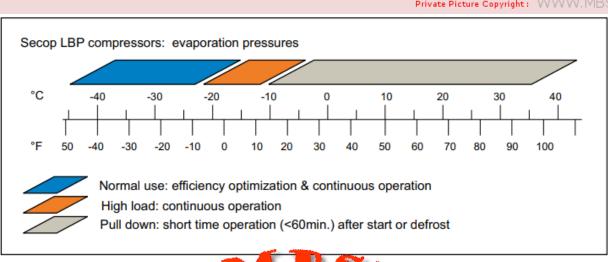
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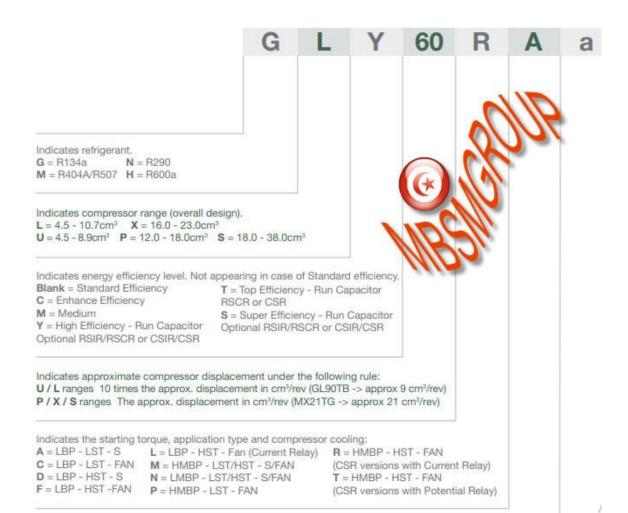
Compressors ZMC, EGL70AT, 1/5Hp, 1Ph, GL70AT, R-134a, standard Efficiency, 220-240V 50Hz, Cubigel Compressor, Cubigel, RSIR, LBP — LST — S, no Starting capacitor

Category: compressor

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Indicates the rated voltage:

A = 220-240V 50Hz

B = 220-240V 50Hz (standard efficiency)

G = 200-220V 50Hz / 220-230V 60Hz

J = 100V 50/60Hz

N = 200-220V 50Hz or 200-240V 50Hz /

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	Dd	6.1	1.00	82	155	0.77	70	50	34	0	P	RS	220-240V 50Hz -1	S	LBP	1/10	4.06	GD40AA	
	Dd	6.8	0.88	78	147	0.67	66	47	31	C	P	1 RS	200-220/220-230V 50/60Hz ~1	S	LBP	1/10	4.06	GD40AF	
	Lb	8.7	1.30	104	192	1.01	89	65	47	C	P	RS	220-240V 50Hz ~1	S	LBP	1/8	4.56	GLY45AAa	0
	Lb	8.7	1.36	105	193	1.05	90	66	48	C	P	RSI	220-240V 50Hz -1	S	LBP	1/8	4.56	GLY45AAb	0
	Lb	7.9	1.06	96	184	0.81	81	57	37	C	p	RS	220-240V 50Hz1	S	LBP	1/8	4.56	GL45AAa	
	Lb	7.9	1.06	96	184	0.81	81	57	37	C-V	R	CS	220-240V 50Hz1	S	LBP.	1/8	4.56	GL45AAb	
	Lb	8.4	0.97	95	184	0.74	80	56	36	C	P	1 RS	200-220/220-230V 50/60Hz 1	S	LBP	1/8	4.56	GL45AF	
	Lb	8.4	1.03	95	184	0.78	80	56	36	C	P	1 RS	200-240/220-230V 50/60Hz ~1	S	LBP	1/8	4.56	GL45ANa	
	Lb	8.7	1.33	127	238	1.03	108	78	53	C	P	RS	220-240V 50Hz -1	S	LBP	1/7	5.46	GLY55AAa	0
	Lb	8.7	1.40	128	239	1.09	109	78	54	C	p	RSI	220-240V 50Hz -1	S	LBP	1/7	5.46	GLY55AAb	6
	Lb	8.7	1.34	139	255	1.03	119	85	58	C	P	RS	220-240V 50Hz -1	S	LBP	1/6	5,98	GLY60AAa	0
	Lb	8.7	1.42	140	256	1.10	120	86	58	C	P	RSI	220-240V 50Hz -1	S	LBP	1/6	5.98	GLY60AAb	0
	Lb	8.4	1.10	126	239	0.85	107	75	50	C	P	RS	220-240V 50Hz 1	S	LBP	1/6	5.98	GL60AAa	
	Lb	8.4	1.10	126	239	0.85	107	75	50	C-V	R	CS	220-240V 50Hz ~1	5	LBP	1/6	5.98	GL60AAb	
	Lb	9.1	1.07	132	245	0.82	113	81	57	C	P	1 RS	200-220/220-230V 50/60Hz ~1	S	LBP	1/6	5.98	GL60AF	
((*)	Lc	9.1	1.09	133	244	0.83	114	82	57	C	P	1 RS	200-240/220-230V 50/60Hz -1	S	LBP	1/6	5.98	GL60ANa	
	Lc	9.1	1.09	133	244	0.83	114	82	57	C-V	B	1 CS	200-240/220-230V 50/60Hz -1	F	LBP	1/6	5.98	GL60ANb	
	Lc	9.1	1.09	133	244	0.83	114	82	57	C-V	R	1 CS	200-240/220-230V 50/60Hz ~1	5	LBP	1/6	5.98	GL60ANC	
A COLUMN TO A STATE OF THE PARTY OF THE PART	D	9.2	1,09	133	244	0.83	114	82	57	C	P	1 RS	200-240/220-230V 50/60Hz ~1	00	LBP	1/6	5.98	GLEOANd	
	Lb	9.7	1.36	154	288	1.05	132	96	70	0	P	RS	220-240V 50Hz ~1	S	LBP	1/5	6.65	GLY70AAa	0
	Lb	9.7	1.44	155	289	1.12	133	97	71	C	P	RSI	220-240V 50Hz 1	S	LBP	1/5	6.65	GLY70AAb	0
1110	Lo	8.8	1.12	142	268	0.87	121	86	58	C	P	RS	220-240V 50Hz ~1	S	LBP	1/5	6.65	GL70AA	
	Lc	9.4	1.08	151	278	0.83	129	95	70	C	P	1 RS	200-220/220-230V 50/60Hz ~1	S	LBP	1/5	6.65	GL70ANa	
	Lc	9.4	1.08	151	278	0.83	129	95	70	V-3	R	1 CS	200-220/220-230V 50/60Hz ~1	F	LBP	1/5	6.65	GL70ANb	
	Lo	9.4	1.08	151	278	0.83	129	95	70	C-V	R	t CS	200-220/220-230V 50/60Hz ~1	S	LBP	1/5	6.65	GL70ANC	
	Ld	9.5	1.08	151	278	0.83	129	96	70	C	P	1 RS	200-220/220-230V 50/60Hz ~1	00	LBP	1/5	6.65	GL70ANd	
	Lc	9.9	1.36	172	311	1.06	147	107	74	C	P	RS	220-240V 50Hz 1	S	LBP	1/5	7.38	GLY75AAa	0
	Lc	9.9	1.44	172	312	1.12	147	108	76	C	P	RSI	220-240V 50Hz -1	S	LBP	1/5	7.38	GEY75AAb	0
	Le	9.0	1.18	155	296	0.91	132	95	68	C	P	RS	220-240V 50Hz -1	S	LBP	1/5	7.38	GL75AA	

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Model: GL70AA

General data

Refrigerant:	R134a
Discharge element:	C
Cooling:	S
Maximum ambient temperature [°C]:	43

Compressor's data

Cylinder capacity [cm³]:	6,7
Displacement [m³/h]:	1,1
Weight [kg]:	9,6
Oil charge [cm³]:	345
Oil type:	ISO VG 19 ESTER

Engine's data

Eligilie 3 data	
Engine type:	RSIR
Power [KM]:	1/5
Starting element:	LST
Power supply:	220V 50Hz
Voltage range:	187-264
Locked rotor current [A]:	10,9
Running winding resistance (25°C) [Ω]:	12,59
Starting winding resistance (25°C) [Ω]:	22,02

Electrical data

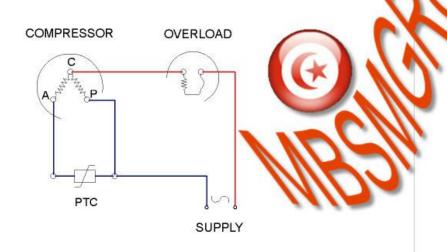
 Relays:
 3003

 Shielding element:
 MRA38028, T0508, AF18FU

Starting capacitor volume [µF]:

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RSIR



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