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

Category: compressor, Files written by Lilianne | 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

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.



LST motor. With running capacitor. Auxiliary winding remains connected after start up. Used for high efficiency in small capacity compressors (particularly in

CSR (Capacitor Start and Run)

household refrigeration)

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.



Private Picture Copyright: WWW.MBSM.PRO

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.

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.



Private Picture Copyright: WWW.MBSM.PRO

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.

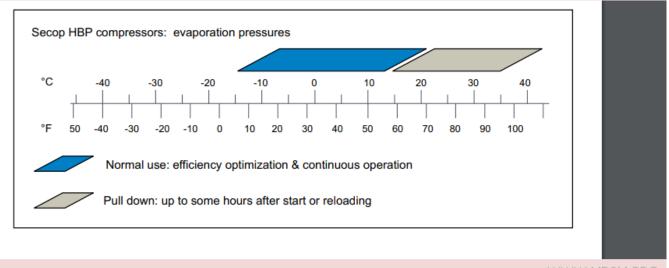
Type of torque

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

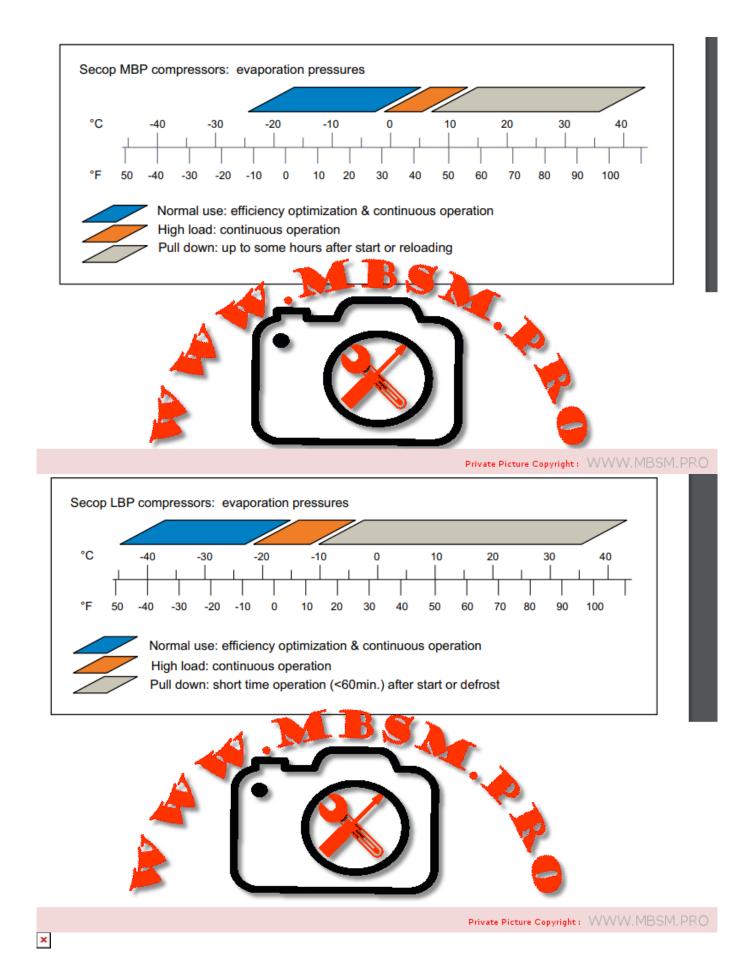
HST – High Starting Torque – Systems with expansion valve or capillary tube, with unbalanced pressures at start up.



Private Picture Copyright: WWW.MBSM.PRO



Private Picture Copyright: WWW.MBSM.PRO

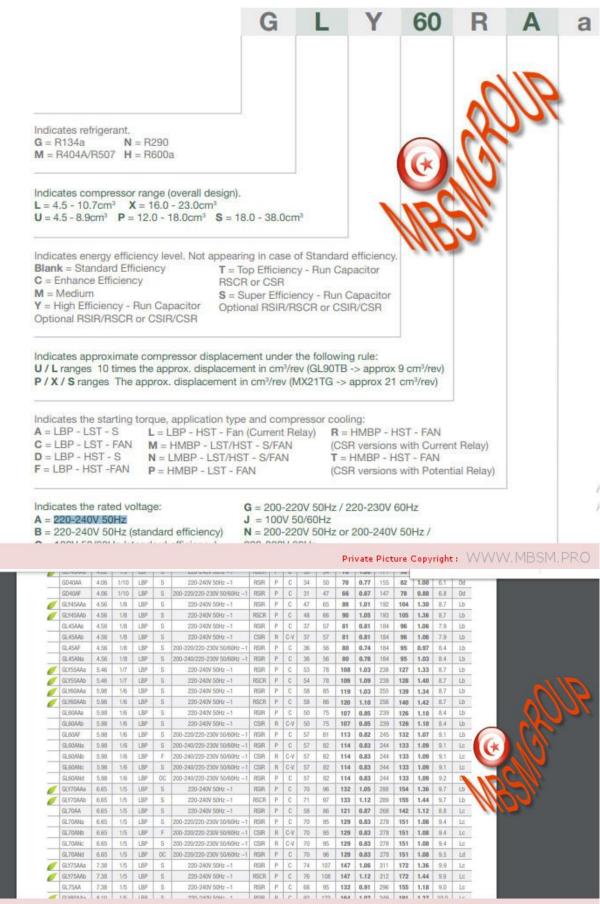


Compressors ZMC, EGL70AT, 1/5Hp, 1Ph, GL70AT, R-134a, standard Efficiency, 220-240V 50Hz, Cubigel Compressor, Cubigel, RSIR, LBP — LST — S, no Starting capacitor

Category: compressor written by Lilianne | 8 April 2021



Private Picture Copyright : WWW.MBSM.PRO

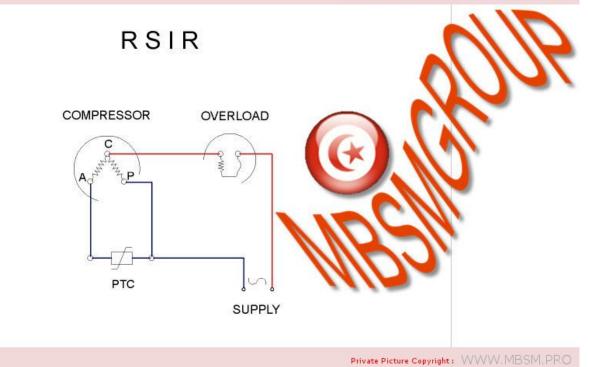


Private Picture Copyright: WWW, MBSM, PRO

Model: GL70AA

General data	2424	
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	GINN
Oil charge [cm ³]:	345	
Oil type:	ISO VG 19 ESTER	
Engine's data		MDAN
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]:		

Private Picture Copyright : WWW.MBSM.PRO



	Model	Refr.	HP	Ambient						COP wit		
				Temp C	Voltage	ASHRAE -23.3°C kcal/h	-25°C W	ASHRAE -23.3°C W/W	CECOMAF -25°C W/W	ASHRAE -23.3*C W/W	25°C W/W	
• 🗉	GL45AA	LEP. R134a	14	-43	A	64	12	1.06	0.82		positional interaction and	
. 10	GL45AN	LBP: R134a	11	50	с	96	81	1.05	0.8			
. 🗉	GLEOAA	LEP: R134a	16	43	A	132	114	1.14	0.89			
• 00	GLOOAE	LBP: RU4	1.0	42	D	132	113	1.07	0.82			
. 🗉	GLEOAH	LBP RU4	1.6	43	A	133	114	1.31	3.41			
. 🗉	GLEOAN	LEP: R134s	1.6	50	с	132	114	1.07	0.83			
• 111	GL70AA	LBP: R134s	15	43	A	140	128	1.18	0.92			
. 11	GL70AN	LBP:RUH	15	50	D	150	129	1.08	0.63			
	GL70AT	LBP RUH	15	43	E	144	122	1.09	0.54			
• 00	GL75AA	LEP. R1349	1/5	43	A	155	133	1.18	0.92			
. 🗉	GLBOAA	LEP: R134#	15	43	A	-19	148	1.10	0.93			
. 🗉	GLBOAF	LEP R134	15	49	D	165	141	1.14	0.55			
• 60	GLIIDAH	LBP: 91348	15	45	Ă	179	150	1.95	1.08			
	GLBOAN	LBP: #134a	1.4	43	A	196	148	1.36	1.09			
. 0	GL90AA	LBP: 8134	14	43	A	195	167	1.19	0.93			
• 🗉	GLIDAH	LBP: 9134a	14	43	A	215	182	1.39	1.08			
. 🗉	GLIOAN	LBP: 91340	14	50.	D	190	163	1.1	0.85			
. 8	GL90AT	LBP: R134a	14	43	ε	190	161	1.19	0.92			
. 0	GL99AA	LEP: RUH	14	43	A	214	182	1.24	0.96		E 100	
. 🗉	GL99AH	LBP: R134a	14	43	A	215	182	1.59	3.66		- AR	
• 81	GLIDAD	LBP: 9134a	15	43	w	0	0	0	0		1.	
. 10	GLIOAD	LEP:RUN	14	43	w	0		0	0			

Private Picture Copyright: WWW.MBSM.PRO



Mbsm_dot_pro_private_PDF_catalogo_cubigel_R134a-1Télécharger Mbsm_dot_pro_private_PDF_cubigel-katalog-1Télécharger