

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

written by Lilianne | 19 December 2020



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G L Y 60 R A a

Indicates refrigerant.

G = R134a **N** = R290
M = R404A/R507 **H** = R600a

Indicates compressor range (overall design).

L = 4.5 - 10.7cm³ **X** = 16.0 - 23.0cm³
U = 4.5 - 8.9cm³ **P** = 12.0 - 18.0cm³ **S** = 18.0 - 38.0cm³

Indicates energy efficiency level. Not appearing in case of Standard efficiency.

Blank = Standard Efficiency **T** = Top Efficiency - Run Capacitor
C = Enhance Efficiency **R** = RSCR or CSR
M = Medium **S** = Super Efficiency - Run Capacitor
Y = High Efficiency - Run Capacitor Optional RSIR/RSCR or CSIR/CSR
Optional RSIR/RSCR or CSIR/CSR

Indicates approximate compressor displacement under the following rule:

U / L ranges 10 times the approx. displacement in cm³/rev (GL90TB -> approx 9 cm³/rev)
P / X / S ranges The approx. displacement in cm³/rev (MX21TG -> approx 21 cm³/rev)

Indicates the starting torque, application type and compressor cooling:

A = LBP - LST - S **L** = LBP - HST - Fan (Current Relay) **R** = HMBP - HST - FAN
C = LBP - LST - FAN **M** = HMBP - LST/HST - S/FAN (CSR versions with Current Relay)
D = LBP - HST - S **N** = LMBP - LST/HST - S/FAN **T** = HMBP - HST - FAN
F = LBP - HST -FAN **P** = HMBP - LST - FAN (CSR versions with Potential Relay)

Indicates the rated voltage:

A = 220-240V 50Hz **G** = 200-220V 50Hz / 220-230V 60Hz
B = 220-240V 50Hz (standard efficiency) **J** = 100V 50/60Hz
C = 200-220V 50Hz (standard efficiency) **N** = 200-220V 50Hz or 200-240V 50Hz /

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Model	Capacity	Temp	App	Comp	Voltage	Efficiency	Start	Relay	CS	CR	CS	CR	CS	CR	CS	CR	CS	CR	CS	CR
GD40AA	4.06	1/10	LBP	S	220-240V 50Hz -1	RSIR	P	C	34	50	70	0.77	155	82	1.00	6.1	Dd			
GD40AF	4.06	1/10	LBP	S	200-220/220-230V 50/60Hz -1	RSIR	P	C	31	47	66	0.67	147	78	0.88	6.8	Dd			
GLY45AAa	4.56	1/8	LBP	S	220-240V 50Hz -1	RSIR	P	C	47	65	89	1.01	192	104	1.30	8.7	Lb			
GLY45AAb	4.56	1/8	LBP	S	220-240V 50Hz -1	RSCR	P	C	48	66	90	1.05	193	105	1.36	8.7	Lb			
GL45AAa	4.56	1/8	LBP	S	220-240V 50Hz -1	RSIR	P	C	37	57	81	0.81	184	96	1.06	7.9	Lb			
GL45AAb	4.56	1/8	LBP	S	220-240V 50Hz -1	CSIR	R	C-V	37	57	81	0.81	184	96	1.06	7.9	Lb			
GL45AF	4.56	1/8	LBP	S	200-220/220-230V 50/60Hz -1	RSIR	P	C	36	56	80	0.74	184	95	0.97	8.4	Lb			
GL45ANa	4.56	1/8	LBP	S	200-240/220-230V 50/60Hz -1	RSIR	P	C	36	56	80	0.78	184	95	1.03	8.4	Lb			
GLY55AAa	5.46	1/7	LBP	S	220-240V 50Hz -1	RSIR	P	C	53	78	108	1.03	238	127	1.33	8.7	Lb			
GLY55AAb	5.46	1/7	LBP	S	220-240V 50Hz -1	RSCR	P	C	54	78	109	1.09	239	128	1.40	8.7	Lb			
GLY60AAa	5.98	1/6	LBP	S	220-240V 50Hz -1	RSIR	P	C	58	85	119	1.03	255	139	1.34	8.7	Lb			
GLY60AAb	5.98	1/6	LBP	S	220-240V 50Hz -1	RSCR	P	C	58	86	120	1.10	256	140	1.42	8.7	Lb			
GL60AAa	5.98	1/6	LBP	S	220-240V 50Hz -1	RSIR	P	C	50	75	107	0.85	239	126	1.10	8.4	Lb			
GL60AAb	5.98	1/6	LBP	S	220-240V 50Hz -1	CSIR	R	C-V	50	75	107	0.85	239	126	1.10	8.4	Lb			
GL60AF	5.98	1/6	LBP	S	200-220/220-230V 50/60Hz -1	RSIR	P	C	57	81	113	0.82	245	132	1.07	9.1	Lb			
GL60ANa	5.98	1/6	LBP	S	200-240/220-230V 50/60Hz -1	RSIR	P	C	57	82	114	0.83	244	133	1.09	9.1	Lc			
GL60ANb	5.98	1/6	LBP	F	200-240/220-230V 50/60Hz -1	CSIR	R	C-V	57	82	114	0.83	244	133	1.09	9.1	Lc			
GL60ANc	5.98	1/6	LBP	S	200-240/220-230V 50/60Hz -1	CSIR	R	C-V	57	82	114	0.83	244	133	1.09	9.1	Lc			
GL60ANd	5.98	1/6	LBP	OC	200-240/220-230V 50/60Hz -1	RSIR	P	C	57	82	114	0.83	244	133	1.09	9.2	Lc			
GLY70AAa	6.65	1/5	LBP	S	220-240V 50Hz -1	RSIR	P	C	70	96	132	1.05	288	154	1.36	9.7	Lb			
GLY70AAb	6.65	1/5	LBP	S	220-240V 50Hz -1	RSCR	P	C	71	97	133	1.12	289	155	1.44	9.7	Lb			
GL70AA	6.65	1/5	LBP	S	220-240V 50Hz -1	RSIR	P	C	58	86	121	0.87	268	142	1.12	8.8	Lc			
GL70ANa	6.65	1/5	LBP	S	200-220/220-230V 50/60Hz -1	RSIR	P	C	70	95	129	0.83	278	151	1.08	9.4	Lc			
GL70ANb	6.65	1/5	LBP	F	200-220/220-230V 50/60Hz -1	CSIR	R	C-V	70	95	129	0.83	278	151	1.08	9.4	Lc			
GL70ANc	6.65	1/5	LBP	S	200-220/220-230V 50/60Hz -1	CSIR	R	C-V	70	95	129	0.83	278	151	1.08	9.4	Lc			
GL70ANd	6.65	1/5	LBP	OC	200-220/220-230V 50/60Hz -1	RSIR	P	C	70	96	129	0.83	278	151	1.08	9.5	Ld			
GLY75AAa	7.38	1/5	LBP	S	220-240V 50Hz -1	RSIR	P	C	74	107	147	1.06	311	172	1.36	9.9	Lc			
GLY75AAb	7.38	1/5	LBP	S	220-240V 50Hz -1	RSCR	P	C	76	108	147	1.12	312	172	1.44	9.9	Lc			
GL75AA	7.38	1/5	LBP	S	220-240V 50Hz -1	RSIR	P	C	68	95	132	0.91	296	155	1.18	9.0	Lc			
GLY90AAa	8.10	1/5	LBP	S	220-240V 50Hz -1	RSCR	P	C	99	139	184	1.07	348	184	1.37	10.0	Lc			

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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 [cm ³]:	6,7
Displacement [m ³ /h]:	1,1
Weight [kg]:	9,6
Oil charge [cm ³]:	345
Oil type:	ISO VG 19 ESTER

Engine's data

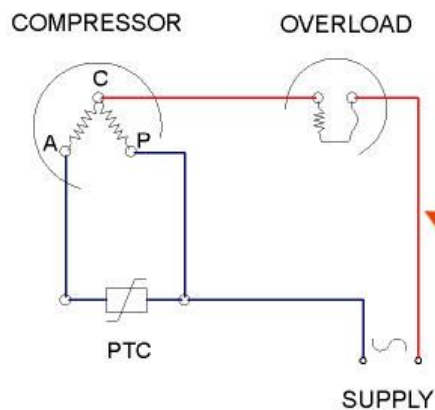
Engine type:	RSIR
Power [KM]:	1/5
Starting element:	LST
Power supply:	220V 50Hz
Voltage range:	187-264
Locked rotor current [A]:	10,9
Running winding resistance (25°C) [Ω]:	12,59
Starting winding resistance (25°C) [Ω]:	22,02

Electrical data

Relays:	3003
Shielding element:	MRA38028, T0508, AF18FU
Starting capacitor volume [μF]:	

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RSIR



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■ R134a

Model	Refr.	HP	Ambient Temp C	Rated Voltage	Cooling Capacity		COP without RC		COP with RC	
					ASHRAE -23.3°C kcal/h	CECOMAF -25°C W	ASHRAE -23.3°C W/W	CECOMAF -25°C W/W	ASHRAE -23.3°C W/W	CECOMAF -25°C W/W
▶ <input type="checkbox"/> GL45AA	LBP-R134a	1.8	43	A	96	82	1.06	0.82		
▶ <input type="checkbox"/> GL45AH	LBP-R134a	1.8	50	C	96	81	1.05	0.8		
▶ <input type="checkbox"/> GL60AA	LBP-R134a	1.6	43	A	122	114	1.14	0.89		
▶ <input type="checkbox"/> GL60AF	LBP-R134a	1.6	43	D	122	113	1.07	0.82		
▶ <input type="checkbox"/> GL60AH	LBP-R134a	1.6	43	A	133	114	1.31	1.01		
▶ <input type="checkbox"/> GL60AN	LBP-R134a	1.6	50	C	122	114	1.07	0.83		
▶ <input type="checkbox"/> GL70AA	LBP-R134a	1.5	43	A	140	128	1.18	0.92		
▶ <input type="checkbox"/> GL70AN	LBP-R134a	1.5	50	D	150	129	1.08	0.83		
▶ <input type="checkbox"/> GL70AT	LBP-R134a	1.5	43	E	144	122	1.09	0.84		
▶ <input type="checkbox"/> GL75AA	LBP-R134a	1.5	43	A	155	133	1.18	0.92		
▶ <input type="checkbox"/> GL80AA	LBP-R134a	1.5	43	A	173	148	1.19	0.93		
▶ <input type="checkbox"/> GL80AF	LBP-R134a	1.5	43	D	166	141	1.14	0.88		
▶ <input type="checkbox"/> GL80AH	LBP-R134a	1.5	43	A	175	150	1.35	1.09		
▶ <input type="checkbox"/> GL80AN	LBP-R134a	1.4	43	A	190	168	1.36	1.09		
▶ <input type="checkbox"/> GL90AA	LBP-R134a	1.4	43	A	195	167	1.19	0.93		
▶ <input type="checkbox"/> GL90AH	LBP-R134a	1.4	43	A	215	182	1.39	1.08		
▶ <input type="checkbox"/> GL90AN	LBP-R134a	1.4	50	D	190	165	1.1	0.85		
▶ <input type="checkbox"/> GL90AT	LBP-R134a	1.4	43	E	190	161	1.19	0.92		
▶ <input type="checkbox"/> GL99AA	LBP-R134a	1.4	43	A	214	182	1.24	0.98		
▶ <input type="checkbox"/> GL99AH	LBP-R134a	1.4	43	A	215	182	1.39	1.08		
▶ <input type="checkbox"/> GL80AD	LBP-R134a	1.5	43	W	0	0	0	0		
▶ <input type="checkbox"/> GL90AD	LBP-R134a	1.4	43	W	0	0	0	0		

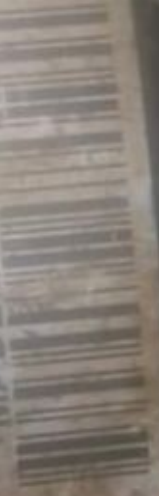


ZMC **EGL70AT** 0707

200-220V-50HZ

R 134 a

MADE IN EGYPT



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