

Mbsm.pro, PDF, Files, EG AS100HLR, Compressor, Lbp, 1/3 Hp, EMBARACO

written by Lilianne | 13 February 2022

embraco		COMPRESSOR TECHNICAL DATA	
COMPRESSOR DEFINITION			
Designation	EG AS100HLR		
Nominal Voltage/Frequency	220-240 V 50-60 Hz		
Engineering Number	513701174		
A - APPLICATION / LIMIT WORKING CONDITIONS			
1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-134a		
3 Nominal voltage and frequency	220-240 / 50-60		[V / Hz]
4 Application type	Low Back Pressure		
4.1 Evaporating temperature range	-35°C to -10°C		(-31°F to 14°F)
5 Motor type	RSIR		
6 Starting torque	LST - Low Starting Torque		
7 Expansion device	Capillary tube		
8 Compressor cooling	Operating voltage range		
		50 Hz	60 Hz
8.1 LBP (32°C Ambient temperature)	Fan	198 to 264 V	-
8.2 LBP (43°C Ambient temperature)	Fan	198 to 264 V	-
8.3 HBP (32°C Ambient temperature)	-	-	-
8.4 HBP (43°C Ambient temperature)	-	-	-
9 Maximum condensing pressures/temperature			
9.1 Operating (gauge)	16.2	[kgf/cm.] (230 psig)	/ °CC - °CF
9.2 Peak (gauge)	20.6	[kgf/cm.] (293 psig)	/ °CC - °CF

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Embraco Condensing Units

Unit Model	Motor Type	Expan. Device	Motor HP	Performance (Watts)											HRP Code	Sales Cat
				-25°C	-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C	15°C				
R134a MHBP																
UEM16144Z	CSIR	CV	1/5	-	-	249	308	375	451	533	-	-	-	-	208162	20A
UEM16160Z	CSIR	CV	1/6	-	-	335	411	499	597	706	-	-	-	-	208164	20A
UEM16170Z	CSIR	CV	1/4	-	-	359	443	539	646	764	-	-	-	-	208166	20A
UNEK6187Z	CSIR	CV	1/4	-	-	405	503	616	741	887	-	-	-	-	208168	20A
UNEK6210Z	CSIR	CV	1/3	-	-	430	544	679	829	1005	-	-	-	-	208170	20A
UNEK6212Z	CSIR	CV	1/2	-	-	640	800	975	1157	1354	-	-	-	-	208172	20A
UNTS215Z	CSIR	CV	1/2	-	-	705	816	1003	1188	1362	-	-	-	-	208180	20A
UNEK6214Z	CSIR	CV	1/2	-	-	658	826	1004	1192	1395	-	-	-	-	208174	20A
UNTS220Z	CSIR	CV	2/3	-	-	843	1050	1281	1541	1828	-	-	-	-	208184	20A
UNJ6220Z	CSIR	CV	3/4	-	-	994	1256	1529	1843	2154	-	-	-	-	207861	20A
UNTS217Z	CSIR	CV	3/4	-	-	993	1275	1555	1861	2178	-	-	-	-	208182	20A
UNJ6226Z	CSIR	CV	1	-	-	1372	1686	2035	2419	2814	-	-	-	-	207888	20A
R404A MHBP																
UEM16144GK	CSIR	CV	1/4	-	-	277	338	400	470	543	615	-	-	-	208186	20A
UEM16152GK	CSIR	CV	1/4	-	-	301	368	435	504	574	644	-	-	-	208188	20A
UEM16165GK	CSIR	CV	1/3	-	-	360	445	525	626	729	815	-	-	-	208190	20A
UNEK6181GK	CSIR	CV	1/2	-	-	427	530	644	767	900	1040	-	-	-	208192	20A
UNEK6210GK	CSIR	CV	1/3	-	-	581	670	765	866	1032	1228	-	-	-	208194	20A
UNEK6213GK	CSIR	CV	1/2	-	-	734	904	1064	1213	1352	1468	-	-	-	208196	20A
UNEK6217GK	CSIR	CV	1/2	-	-	741	960	1180	1406	1640	1880	-	-	-	208198	20A
UNTS220GK	CSIR	CV	3/4	-	-	793	1024	1262	1506	1754	2009	-	-	-	206204	20A
UNTS222GK	CSIR	CV	3/4	-	-	TBA	TBA	TBA	TBA	TBA	TBA	-	-	-	206206	20A
UNTS225GK	CSIR	CV	1	-	-	1206	1568	1878	2198	2526	2864	-	-	-	206202	20A
UNJ6225GK	CSIR	CV	1	-	-	1206	1523	1822	2094	2364	2616	-	-	-	208140	20A
UNJ6226GS	3ph	CV	1	-	-	1206	1523	1822	2094	2364	2616	-	-	-	208200	20A
UNJ6232GK	CSIR	CV	1-1/4	-	-	1467	1855	2219	2550	2879	3186	-	-	-	208145	20A
UNJ6232GS	3ph	CV	1-1/4	-	-	1467	1855	2219	2550	2879	3186	-	-	-	208150	20A
UNJ6238GK	CSIR	CV	1-1/2	-	-	1817	2297	2748	3157	3565	3983	-	-	-	208155	20A



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R134a HMBP HBP 50 Hz										R134a compressors compatible with R12										
MODEL	DISPLACEMENT cm ³	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPIRATION	REFRIGERATION CAPACITY °C										WEIGHT Kg	DESIGN
									COP in W/W 1 W = 0.864 kcal/h = 3.415 BTU/h Evaporating Temperature °C											
									Cecomaf (W)					Ashrae						
									-25	-15	5	10	15	20	25	30	35	40		
GLY45RAa	4.56	1/6	HMBP	F	220-240V 50Hz -1	CSR	R	C-V	71	139	373	1.85	452	385	2.25	9	Lb			
GLY45RAb	4.56	1/6	HMBP	F	220-240V 50Hz -1	CSR	R	C-V	71	159	373	2.12	452	385	2.45	9	Lb			
GLY60RAa	5.98	1/5	HMBP	F	220-240V 50Hz -1	CSR	R	C-V	106	191	486	2.04	586	500	2.36	9.9	Lc			
GLY60RAb	5.98	1/5	HMBP	F	220-240V 50Hz -1	CSR	R	C-V	106	191	486	2.25	586	500	2.60	9.9	Lc			
GLY80RAa	8.10	1/5	HMBP	F	220-240V 50Hz -1	CSR	R	C-V	159	275	681	2.17	819	700	2.50	10.4	Lc			
GLY80RAb	8.10	1/5	HMBP	F	220-240V 50Hz -1	CSR	R	C-V	159	275	681	2.35	819	700	2.71	10.4	Lc			
GLY90RAa	9.09	1/4	HMBP	F	220-240V 50Hz -1	CSR	R	C-V	169	298	748	2.06	901	770	2.37	10.5	Lc			
GLY90RAb	9.09	1/4	HMBP	F	220-240V 50Hz -1	CSR	R	C-V	169	298	748	2.27	901	770	2.61	10.5	Lc			
GLY99RAa (**)	9.95	3/8	HMBP	F	220-240V 50Hz -1	CSR	R	C-V	189	328	814	2.01	972	836	2.31	10.8	Ld			
GLY99RAb (**)	9.95	3/8	HMBP	F	220-240V 50Hz -1	CSR	R	C-V	189	328	814	2.18	972	836	2.49	10.8	Ld			
GPY12RAa	12.10	3/8	HMBP	F	220-240V 50Hz -1	CSR	R	C-V	228	401	993	2.05	1192	1020	2.35	12.6	Pd			
GPY12RAb	12.10	3/8	HMBP	F	220-240V 50Hz -1	CSR	R	C-V	228	401	993	2.24	1192	1020	2.58	12.6	Pd			
GPY14RAa	14.32	3/8	HMBP	F	220-240V 50Hz -1	CSR	R	C-V	296	492	1161	1.98	1386	1190	2.27	12.6	Pd			
GPY14RAb	14.32	3/8	HMBP	F	220-240V 50Hz -1	CSR	R	C-V	296	492	1161	2.18	1386	1190	2.50	12.6	Pd			
GPY16RAa	16.15	3/8	HMBP	F	220-240V 50Hz -1	CSR	R	C-V	315	522	1248	2.20	1490	1351	2.31	12.8	Pd			
GPY16RAb	16.15	3/8	HMBP	F	220-240V 50Hz -1	CSR	R	C-V	315	522	1248	2.38	1490	1351	2.50	12.8	Pd			

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

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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

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.

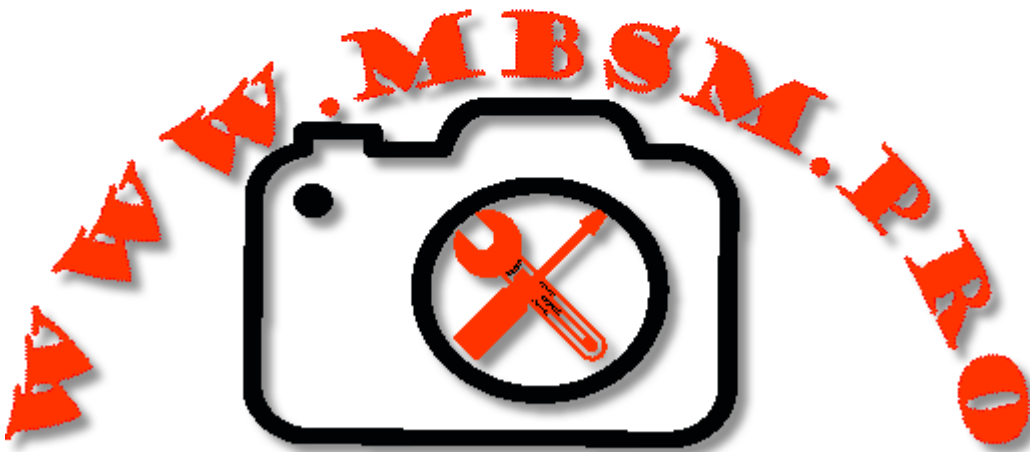
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Type of torque

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.



Catalogue, DANFOSS, All Compressor, PDF Catalogs, Documentation

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Catalogue, DANFOSS, All Compressor, PDF Catalogs, Documentation

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