Compressor, LX110LQJG, Refrigeration freezer, KF-P8903HLP, 1/3HP, 260W, R134A, 180G, Refrigirator Amerecain

written by Lilianne | 7 December 2021

1 Reciprocating & Linear Compressor Compressor Technology for Refrigerator

2 01 LG Compressor Model Variety In order to offer you a various product portfolio of refrigerator compressor, our range covers constant and inverter of Reciprocating and Linear compressor with low pressure as well as high pressure. It enables to provide you with full support in all application of your needs. Customer Support LG compressors promise to deliver a satisfaction level for all your business stage from research, development to the spec-in that exceeds our customers expectations, and strives to provide the highest value to our customers through a fast, accurate and differentiated service & solution as your business partner. Technology LG compressors are continuously evolving group of high-precision machining and assembly technologies from accumulated techniques for generating sustainable world best compressor. Especially we are enabling to give our customers technical support in order to provide best performance compressor through design mechanism and produce key technology of compressor, inverter motor and drive that makes you to achieve optimized product. Quality With the product quality and safety evaluation system that performs basic quality and safety evaluation for products at every production stage. Under the quality gate system, all our products undergo a safety check at each quality gate based on a checklist, preventing shipments of products with quality or safety issues. We also have achieved recognition our quality and

sustainability from Europe, North America, China and Japan. Why LG Compressor? LG Compressor 01

3 02 LG Compressor LG Compressor 03 Brief History & Factory Milestones & Production Sites China Qinhuangdao (Casting) Tianjin (Rotary, Scroll) Nanjing () Taizhou (Reciprocating) 13 Production Refrigerator Compressor Production Air-conditioner Compressor Production Compressor Division Compressor Sales 100 Million Units Establishment of C&M Business Unit 2011 Korea (HQ) Changwon (Reciprocating, Linear, Rotary, Scroll,) India Noida (Reciprocating) Thailand Rayong (Rotary)

4 04 LG Compressor LG Compressor 05 Contents Why LG Compressor? Brief History & Factory Reciprocating Compressor – Product Range – Nomenclature – Specification I Constant speed – Specification I Inverter – Specification I Controller – Attached / Detached Controller – Mounting – Packing & Container Stuffing Quantity Linear Compressor – Product Range – Nomenclature – Specification – Wiring Diagram – Accessory Part – Packing & Container Stuffing Quantity

5 08 LG Reciprocating Compressor LG Reciprocating Compressor 09 Nomenclature Product type B : BLDC C : Constant Speed F : Linear Size C : Compact L : Large M : Medium S : Small Generation code (A-Z) B M A 098 N A M V Operating type Rated voltage & frequency Code Voltage Hz Code Voltage Hz A /60 Q 110~ B 50/60 R 110~ C D 60 E ~ S T Code Voltage G RSIR M RSCR F CSIR H CSR K RSIR N RSCR P CSIR R CSR V Inverter 200~ ~ F J 60 U 115~ K M ~240 50/60 L N 115~127 50/60 P Improvement order A, B, C : Cu Wire H, J : Al Wire R134a TS Capacity EER COP TS22LHEG RSIR ~240/ ASHRAE TS22LHAG RSIR 110/ ASHRAE TS24LATG RSIR ~240/ ASHRAE TS24LJJG RSIR / ASHRAE TS24LHJG RSIR / ASHRAE TS24LAAG RSIR 110/ ASHRAE TS24LHAG RSIR 110/ ASHRAE TS24LHTG RSIR ~240/ ASHRAE TS22LHAG RSIR 110/ ASHRAE TS22LHDG RSIR / ASHRAE TS22LHCG RSIR 115/ ASHRAE TS24LADG RSIR / ASHRAE TS24LATG RSIR / ASHRAE TS24LAAG RSIR 100/ ASHRAE TS24LHAG RSIR 110/ ASHRAE TS24LHUG RSIR 115~127/ ASHRAE TS24LAFG RSIR 127/ ASHRAE TS24LBDM RSCR / ASHRAE TS24LACG RSIR 115/ ASHRAE

TS24LHDG RSIR / ASHRAE TS24LHTG RSIR / ASHRAE Note 2 : condition Evaporating temperature Condensing temperature Ambient temperature TS Capacity Displacement (ex : 098=9.8cc/rev) Refrigerants L : R134a H : R134a HBP N : R600a

6 10 LG Reciprocating Compressor LG Reciprocating Compressor 11 R134a NS Capacity EER COP NS24LBEG RSIR ~240/ ASHRAE 157 NS24LABG RSIR / ASHRAE 147 NS24LAEG RSIR ~240/ ASHRAE 147 NS24LABG RSIR / ASHRAE 147 NS24LBCG RSIR 115/ ASHRAE 157 NS24LBCM RSCR 115/ ASHRAE 157 NS24LADG RSIR / ASHRAE 147 NS24LACG RSIR 115/ ASHRAE 147 NS30LABG RSIR / ASHRAE 147 NSA24LACG RSIR 115/ ASHRAE 147 NS30LAEG RSIR ~240/ ASHRAE 147 NS30LABG RSIR / ASHRAE 147 NS36LABG RSIR / ASHRAE 157 NS30LACG RSIR 115/ ASHRAE 147 NS30LACM RSCR 115/ ASHRAE 147 NS36LAEG RSIR ~240/ ASHRAE 157 NSA30LACG RSIR 115/ ASHRAE 147 NS36LACG RSIR 115/ ASHRAE 157 NS36LADG RSIR / ASHRAE 157 NS36LADM RSCR / ASHRAE 157 NS36LABG RSIR / ASHRAE 157 NSA36LACG RSIR 115/ ASHRAE 157 R134a CMA Capacity EER COP CMA042LHJG RSIR / ASHRAE 171 CMA042LHDM RSCR / ASHRAE 171 CMA042LHCG RSIR 115/ ASHRAE 171 CMA042LHCM RSCR 115/ ASHRAE 171 CMA042LHUM RSCR 115~127/ ASHRAE 171 CMA053LHEG RSIR ~240/ ASHRAE 171 CMA053LHEM RSCR ~240/ ASHRAE 171 CMA057LHEM RSCR ~240/ ASHRAE 171 CMA057LHEG RSIR ~240/ ASHRAE 171 CMA057LAEM RSCR ~240/ ASHRAE 171 CMA053LHDG RSIR / ASHRAE 171 CMA053LHCG RSIR 115/ ASHRAE 171 CMA053LHCM RSCR 115/ ASHRAE 171 CMA062LHEG RSIR ~240/ ASHRAE 171 CMA062LHEM RSCR ~240/ ASHRAE 171 CMA069LAEM RSCR ~240/ ASHRAE 171 CMA069LBEM RSCR ~240/ ASHRAE 171 CMA069LHEM RSCR ~240/ ASHRAE 171 CMA075LHDM RSCR / ASHRAE 171 Note 2 : condition Evaporating temperature Condensing temperature Ambient temperature Note 2 : condition Evaporating temperature Condensing temperature Ambient temperature NS CMA

7 12 LG Reciprocating Compressor LG Reciprocating Compressor 13 R134a MA Capacity EER COP MA42LPJG RSIR / ASHRAE 172 MA42LMJM RSCR / ASHRAE 172 MA42LMJG RSIR / ASHRAE 172 MA42LHJM RSCR / ASHRAE 172 MA45LDJG RSIR / ASHRAE 172 MA45LCJG RSIR / ASHRAE 172 MA45LJJM RSCR / ASHRAE 172 MA45LHJM RSCR / ASHRAE

172 MA53LABM RSCR / ASHRAE 172 MA53LATG RSIR ~240/ ASHRAE 172 MA53LAJM RSCR / ASHRAE 172 MA53LJJG RSIR / ASHRAE 172 MA53LBJG RSIR / ASHRAE 172 MA53LAJG RSIR / ASHRAE 172 MA53LAEG(AL) RSIR ~240/ ASHRAE 180 MA53LAEM(AL) RSCR ~240/ ASHRAE 180 MA57LBJG RSIR / ASHRAE 172 MA57LABM RSCR / ASHRAE 180 MA57LAEG RSIR ~240/ ASHRAE 172 MA57LAEM(AL) RSCR ~240/ ASHRAE 180 MA57LBEG(AL) RSIR ~240/ ASHRAE 180 MA57LBJG RSIR / ASHRAE 177 MA57LJJG RSIR / ASHRAE 177 MA53LHEM RSCR ~240/ ASHRAE 172 MA57LDJM RSCR / ASHRAE 177 MA53LBCG RSIR 115/ ASHRAE 172 MA53LBCM RSCR 115/ ASHRAE 172 MA62LCEG RSIR ~240/ ASHRAE 180 MA62LCEM RSCR ~240/ ASHRAE 180 MA62LDEG RSIR ~240/ ASHRAE 172 MA53LAUG RSIR 115~127/ ASHRAE 172 MA62LBJG RSIR / ASHRAE 177 MA62LJJG RSIR / ASHRAE 177 MA62LDJM RSCR / ASHRAE 177 MA62LBEG RSIR ~240/ ASHRAE 177 MA62LCEG RSIR ~240/ ASHRAE 177 MA53LADG RSIR / ASHRAE 172 MA53LADM RSCR / ASHRAE 172 MA53LCCM RSCR 115/ ASHRAE 172 MA53LABM RSCR / ASHRAE 172 MA69LKEM RSCR ~240/ ASHRAE 177 MA69LJEG RSIR ~240/ ASHRAE 177 MA69LJEP CSIR ~240/ ASHRAE 177 MA69LHEM RSCR ~240/ ASHRAE 177 MA69LHEG RSIR ~240/ ASHRAE 177 R134a MA / MC MA MC LQ Capacity EER COP MA69LHEP CSIR ~240/ ASHRAE 177 MA57LADM RSCR / ASHRAE 180 MA57LABM RSCR / ASHRAE 180 MA69LDEG RSIR ~240/ ASHRAE 172 MA69LCEG RSIR ~240/ ASHRAE 180 MA69LCEM RSCR ~240/ ASHRAE 180 MA69LAEM RSCR ~240/ ASHRAE 177 MA72LBJG RSIR / ASHRAE 177 MA72LHEM RSCR ~240/ ASHRAE 177 MA72LKEM RSCR ~240/ ASHRAE 177 MA72LBEM RSCR ~240/ ASHRAE 177 MA72LJEP CSIR ~240/ ASHRAE 177 MA72LJEG RSIR ~240/ ASHRAE 177 MA72LHEG RSIR ~240/ ASHRAE 177 MA88LAEP CSIR ~240/ ASHRAE 177 MA98LAEM RSCR ~240/ ASHRAE 182 MC53LBEM RSCR ~240/ ASHRAE 172 MC57LAEM RSCR ~240/ ASHRAE 177 MC57LBEM RSCR ~240/ ASHRAE 177 MA57LBJM RSCR / ASHRAE 177 LQ75LAEM RSCR ~240/ ASHRAE 203 LQ86LAEM RSCR ~240/ ASHRAE 203 Remark LQ69LAUM RSCR 115~127/ ASHRAE 203 E-PTC LQ69LAUM RSCR 115~127/ ASHRAE 203 LQ69LAUH RSCR 115~127/ ASHRAE 203 E-PTC LQ69LADM RSCR / ASHRAE 203 LQ75LAUM RSCR 115~127/ ASHRAE 203 E-PTC LQ100LAJH CSR / ASHRAE 203 LQ86LADM RSCR / ASHRAE 203 Note 2 : condition Evaporating temperature Condensing temperature Ambient temperature LQ

8 14 LG Reciprocating Compressor LG Reciprocating Compressor 15 R134a LX Capacity EER COP LX67LABM RSCR / ASHRAE 200 LX67LHBM RSCR / ASHRAE 203 LX72LATG RSIR ~240/ ASHRAE 200 LX72LBEG RSIR ~240/ ASHRAE 200 LX72LAAM RSCR 110/ ASHRAE 200 LX72LATF CSIR ~240/ ASHRAE 200 LX72LATH CSR ~240/ ASHRAE 200 LX72LAEM RSCR ~240/ ASHRAE 200 LX72LHJH CSR / ASHRAE 203 LX72LHJM RSCR / ASHRAE 203 LX72LHJF CSIR / ASHRAE 203 LX67LAQG RSIR 100~115/ ASHRAE 200 LX86LABM RSCR / ASHRAE 203 LX86LBEG RSIR ~240/ ASHRAE 200 LX86LBEF CSIR ~240/ ASHRAE 200 LX86LCEG RSIR ~240/ ASHRAE 203 LX86LHEM RSCR ~240/ ASHRAE 203 LX86LHJF CSIR / ASHRAE 203 LX67LABM RSCR / ASHRAE 200 LX67LAFM RSCR 127/ ASHRAE 200 LX67LHBM RSCR / ASHRAE 203 LX86LPBP CSIR / ASHRAE 203 LX86LAEG RSIR ~240/ ASHRAE 203 LX72LATG RSIR / ASHRAE 200 LX72LBQG RSIR 100~115/ ASHRAE 200 LX72LAAM RSCR 110/ ASHRAE 200 LX72LATF CSIR / ASHRAE 200 LX72LATH CSR / ASHRAE 200 LX72LHQF CSIR 100~115/ ASHRAE 203 LX95LAAH CSR 110/ ASHRAE 203 LX95LABH CSR / ASHRAE 203 LX86LACM RSCR 115/ ASHRAE 203 LX86LAQM RSCR 100~115/ ASHRAE 203 LX86LPBP CSIR / ASHRAE 203 LX86LADM RSCR / ASHRAE 203 LX86LABM RSCR / ASHRAE 203 LX86LPDP CSIR / ASHRAE 200 LX110LAJH CSR /50 2 1, ASHRAE 203 LX110LAJM RSCR /50 2 1, ASHRAE 203 LX110LAEH CSR ~240/50 2 1, ASHRAE 203 LX110LAEM RSCR ~240/50 2 1, ASHRAE 203 LX R134a LX 1 Capacity EER COP LX110LAAH CSR 110/50 2 1, ASHRAE 203 LX110LQJG RSIR /50 2 1, ASHRAE 200 LX110LHJH CSR /50 2 1, ASHRAE 203 LX110LAJM RSCR / , ASHRAE 203 LX95LAAH CSR 110/ , ASHRAE 203 LX95LADH CSR / , ASHRAE 203 LX95LABH CSR / , ASHRAE 203 LX95LBQH CSR 100~115/ , ASHRAE 203 LX95LAFH CSR 127/ , ASHRAE 203 LX95LAQH CSR 100~115/ , ASHRAE 203 LX110LAAH CSR 110/ , ASHRAE 203 LX110LPDP CSIR / , ASHRAE 203 LX125LAJM RSCR / , ASHRAE 203 Note 2 : condition Evaporating temperature Condensing temperature Ambient temperature

9 16 LG Reciprocating Compressor LG Reciprocating Compressor 17 R600a NS CSA Capacity EER COP NS36NAAG RSIR 110/ ASHRAE 157 NS36NAAG RSIR 110/ ASHRAE 157 NSA43NACM RSCR 115/ ASHRAE 157 NSA43NACG RSIR 115/ ASHRAE 157 CSA043NHEG RSIR ~240/ ASHRAE 167 CSA043NHAG RSIR 110/ ASHRAE 167 CSA047NHEG RSIR ~240/

ASHRAE 167 CSA043NHAG RSIR 110/ ASHRAE 167 CSA053NHEG RSIR ~240/ ASHRAE 167 CSA057NHEG RSIR ~240/ ASHRAE 167 CSA057NJEG RSIR ~240/ ASHRAE 157 CSA062NHAG RSIR 110/ ASHRAE 167 CSA062NHEG RSIR ~240/ ASHRAE 167 CSA057NHCG RSIR 115/ ASHRAE 167 CSA069NHAG RSIR 110/ ASHRAE 167 CSA069NHEG RSIR ~240/ ASHRAE 167 CSA062NHAG RSIR 110/ ASHRAE 167 CSA075NJEG RSIR ~240/ ASHRAE 157 CSA075NHEG RSIR ~240/ ASHRAE 167 CSA075NHEM RSCR ~240/ ASHRAE 167 CSA069NHCG RSIR 115/ ASHRAE 167 CSA069NHAG RSIR 110/ ASHRAE 167 CSA075NHCG RSIR 115/ ASHRAE 167 R600a CMA Capacity EER COP Remark CMA057NAAG RSIR 110/ ASHRAE 171 CMA057NAEM RSCR ~240/ ASHRAE 171 CMA057NAEM RSCR ~240/ ASHRAE 171 E-PTC CMA057NHEM RSCR ~240/ ASHRAE 171 CMA057NHEM RSCR ~240/ ASHRAE 171 E-PTC CMA062NAEM RSCR ~240/ ASHRAE 171 CMA062NAEM RSCR ~240/ ASHRAE 171 E-PTC CMA062NHEM RSCR ~240/ ASHRAE 171 CMA062NHEM RSCR ~240/ ASHRAE 171 E-PTC CMA057NAAG RSIR 110/ ASHRAE 171 CMA069NJEM RSCR ~240/ ASHRAE 171 CMA069NAEM RSCR ~240/ ASHRAE 171 CMA069NAEM RSCR ~240/ ASHRAE 171 E-PTC CMA069NHEM RSCR ~240/ ASHRAE 171 CMA069NHEM RSCR ~240/ ASHRAE 171 E-PTC CMA069NHAM RSCR 110/ ASHRAE 171 CMA075NAEM RSCR ~240/ ASHRAE 171 CMA075NAEM RSCR ~240/ ASHRAE 171 E-PTC CMA075NHEM RSCR ~240/ ASHRAE 171 CMA075NHEM RSCR ~240/ ASHRAE 171 E-PTC CMA075NHAM RSCR 110/ ASHRAE 171 CMA069NHAM RSCR 110/ ASHRAE 171 CMA082NHEM RSCR ~240/ ASHRAE 171 CMA082NHEM RSCR ~240/ ASHRAE 171 E-PTC CMA082NJEG RSIR ~240/ ASHRAE 171 CMA082NAEM RSCR ~240/ ASHRAE 171 Note 2 : condition Evaporating temperature Condensing temperature Ambient temperature Note 2 : condition Evaporating temperature Condensing temperature Ambient temperature NS / MSA / CSA CMA

10 18 LG Reciprocating Compressor LG Reciprocating Compressor 19 R600a CMA Capacity EER COP Remark CMA082NAEM RSCR ~240/ ASHRAE 171 E-PTC CMA089NHEM RSCR ~240/ ASHRAE 171 CMA089NHEM RSCR ~240/ ASHRAE 171 E-PTC CMA089NJEG RSIR ~240/ ASHRAE 171 CMA075NHAM RSCR 110/ ASHRAE 171 CMA089NAEM RSCR ~240/ ASHRAE 171 CMA089NAEM RSCR ~240/ ASHRAE 171 E-PTC CMA089NBEM RSCR ~240/ ASHRAE 171 CMA098NJEM RSCR ~240/ ASHRAE 171 CMA098NAEM RSCR ~240/ ASHRAE 171 CMA098NAEM RSCR ~240/ ASHRAE 171 E-PTC

CMA098NJEG RSIR ~240/ ASHRAE 171 CMA098NHEM RSCR ~240/ ASHRAE 171 CMA098NHEM RSCR ~240/ ASHRAE 171 E-PTC CMA098NJEM RSCR ~240/ ASHRAE 171 CMA089NHDM RSCR / ASHRAE 171 CMA089NHDM RSCR / ASHRAE 171 E-PTC CMA110NAEM RSCR ~240/ ASHRAE 171 CMA110NAEM RSCR ~240/ ASHRAE 171 E-PTC CMA110NAEM RSCR ~240/ ASHRAE 171 CMA110NAEM RSCR ~240/ ASHRAE 171 CMA098NARM RSCR 110~127/ ASHRAE 171 CMA098NADM RSCR / ASHRAE 171 CMA121NAEM RSCR ~240/ ASHRAE 171 CMA121NAEM RSCR ~240/ ASHRAE 171 CMA110NADM RSCR / ASHRAE 171 R600a MB MQ LQ Capacity EER COP MB62NJEG RSIR ~240/ ASHRAE 172 MB82NAEM RSCR ~240/ ASHRAE 177 MB82NJEG RSIR ~240/ ASHRAE 177 MB82NJEM RSCR ~240/ ASHRAE 177 MB98NJEG RSIR ~240/ ASHRAE 177 MQ88NAEM RSCR ~240/ ASHRAE 180 MQ98NAJH CSR / ASHRAE 180 MQ98NAEM RSCR ~240/ ASHRAE 180 Remark LQ119NAEM RSCR ~240/ ASHRAE 203 E-PTC LQ119NAEM RSCR ~240/ ASHRAE 203 LQ125NAEM RSCR ~240/ ASHRAE 203 LQ140NAEM RSCR ~240/ ASHRAE 203 LQ119NAQM RSCR 100~115/ ASHRAE 203 LQ140NAEM RSCR ~240/ ASHRAE 203 LQ140NAEH CSR ~240/ ASHRAE 203 LQ140NAEM RSCR ~240/ ASHRAE 203 E-PTC Note 2 : condition Evaporating temperature Condensing temperature Ambient temperature Note 2 : condition Evaporating temperature Condensing temperature Ambient temperature CMA MB / MQ LQ

11 20 LG Reciprocating Compressor LG Reciprocating Compressor 21 Application : HBP Application : HBP R134a CMA MA Capacity EER COP CMA042HHDM RSCR / , ASHRAE 161 CMA053HHDM RSCR / , ASHRAE 161 CMA062HAEM RSCR ~240/ , ASHRAE 171 CMA062HHDM RSCR / , ASHRAE 171 CMA075HAEM RSCR ~240/ , ASHRAE 171 CMA075HADM RSCR /60 0 2, ASHRAE 171 CMA089HADM RSCR / , ASHRAE 171 MA42HJEP CSIR ~240/ , ASHRAE 172 MA53HJEF CSIR ~240/ , ASHRAE 172 MA53HAEF CSIR ~240/ , ASHRAE 172 MA62HAEG RSIR ~240/ , ASHRAE 177 MA62HAEF CSIR ~240/ , ASHRAE 177 MA72HAEP CSIR ~240/ , ASHRAE 177 Note 2 : condition Evaporating temperature Condensing temperature Ambient temperature ASHRAE 7.2 C 54.4 C 35 C R134a LX Capacity EER COP LX72HAEP CSIR ~240/ , ASHRAE 203 LX72HAEG RSIR ~240/ , ASHRAE 203 LX72HPDP CSIR /60 0 2, ASHRAE 200 LX86HAEP CSIR ~240/ , ASHRAE 203 LX86HAEG RSIR ~240/50 5 2, ASHRAE 203 LX86HPDP CSIR / , ASHRAE 200 LX110HAEP

CSIR ~240/ ,613 1, ASHRAE 203 LX110HAEM RSCR ~240/ ,772 1, ASHRAE 203 LX125HPJP CSIR / ,950 1, ASHRAE 203 LX110HPDP CSIR / ,9 1, ASHRAE 200 LX110HACF CSIR 115/ ,129 1, ASHRAE 203 LX125HPDP CSIR / ,764 1, ASHRAE 203 Note 2 : condition Evaporating temperature Condensing temperature Ambient temperature ASHRAE 7.2 C 54.4 C 35 C CMA MA LX

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