



# MBSM DOT PRO

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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

19 December 2020 | No Comments



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

Indicates compressor range (overall design).  
**L** = 4.5 - 10.7cm<sup>3</sup>    **X** = 16.0 - 23.0cm<sup>3</sup>  
**U** = 4.5 - 8.9cm<sup>3</sup>    **P** = 12.0 - 18.0cm<sup>3</sup>    **S** = 18.0 - 38.0cm<sup>3</sup>

Indicates energy efficiency level. Not appearing in case of Standard efficiency.  
**Blank** = Standard Efficiency      **T** = Top Efficiency - Run Capacitor  
**C** = Enhance Efficiency          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 cm<sup>3</sup>/rev (GL90TB -> approx 9 cm<sup>3</sup>/rev)  
**P / X / S** ranges The approx. displacement in cm<sup>3</sup>/rev (MX21TG -> approx 21 cm<sup>3</sup>/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** = 220-240V 50Hz (standard efficiency)    **N** = 200-220V 50Hz or 200-240V 50Hz / 220-230V 60Hz

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| Model    | Capacity | Temp | App | Comp | Voltage                     | Efficiency | Start | Cooling | Power | Current | Weight | Height | Width | Depth |      |      |    |
|----------|----------|------|-----|------|-----------------------------|------------|-------|---------|-------|---------|--------|--------|-------|-------|------|------|----|
| 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 |
| GL45AAa  | 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 | DC   | 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 | DC   | 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 |
| GLY85AAa | 8.10     | 1/5  | LBP | S    | 220-240V 50Hz -1            | RSIR       | P     | C       | 85    | 120     | 184    | 1.07   | 340   | 191   | 1.37 | 10.6 | 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 <sup>3</sup> ]: | 6,7             |
| Displacement [m <sup>3</sup> /h]:     | 1,1             |
| Weight [kg]:                          | 9,6             |
| Oil charge [cm <sup>3</sup> ]:        | 345             |
| Oil type:                             | ISO VG 19 ESTER |

### Engine's data

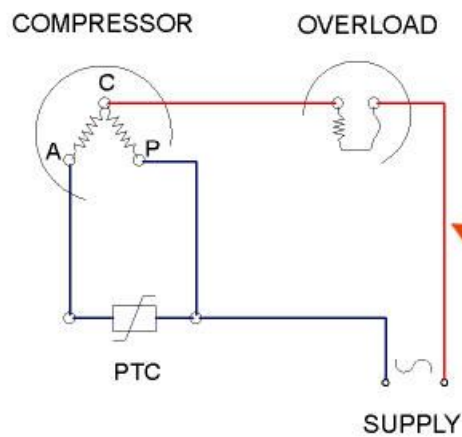
|   |           |
|---|-----------|
| Engine type:                            | RSIR      |
| Power [KM]:                             | 1/5       |
| Starting element:                       | LST       |
| Power supply:                           | 220V 50Hz |
| Voltage range:                          | 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 | 1.0 | 43             | A             | 96                    | 82              | 1.06               | 0.82              |                    |                   |
| ▶ <input type="checkbox"/> GL45AH | LBP-R134a | 1.0 | 50             | C             | 96                    | 81              | 1.05               | 0.8               |                    |                   |
| ▶ <input type="checkbox"/> GL60AA | LBP-R134a | 1.6 | 43             | A             | 132                   | 114             | 1.14               | 0.89              |                    |                   |
| ▶ <input type="checkbox"/> GL60AF | LBP-R134a | 1.6 | 43             | D             | 132                   | 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             | 132                   | 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             | 1.08               | 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             | 1.18               | 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               | 1.08              |                    |                   |
| ▶ <input type="checkbox"/> GL80AN | LBP-R134a | 1.4 | 43             | A             | 196                   | 166             | 1.36               | 1.06              |                    |                   |
| ▶ <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             | 217                   | 182             | 1.38               | 1.08              |                    |                   |
| ▶ <input type="checkbox"/> GL90AN | LBP-R134a | 1.4 | 50             | D             | 190                   | 169             | 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             | 235                   | 182             | 1.38               | 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                 |                    |                   |



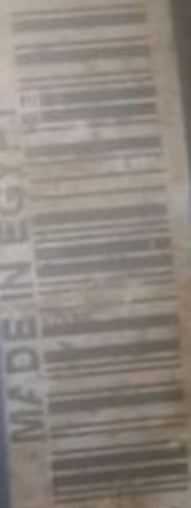
**ZMC**

**EGL70AT 0707**

200-220V-50HZ

**R 134 a**

MADE IN EGYPT



3 412

1387458



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← Samsung, Compressor, MSV488A-L1R, Bldc, Inverter, Samsung Inverter, R600a, 1/6Hp, lpm 8.82CC, 115/220V, Stai ( MSV488AL1R, TT1 )

Maintenance, chauffe, eau solaire, BSI, 300L →