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1b6G < ' Aäµ =F¶B-

o ▯ G WÔL{M6x ,)æM~G/t PF¶B- - ? Ô Ñ,º < f F >, G W,º ° 73l FV52  
> ÔAã© & 0AðN⁻\$ = , !XF 73% Cé= æ?·"x,º , ì f > Ë = >

6 = =N⁻\$ C0&Æ° 73l FV52> ÔAã© & 0AðN⁻\$

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½, µ F78) #TT FFFälç, » = i × B%D , <6Š31Ñ Ê | F  
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¢ Ú > , ? , B% ?ü p Õ = Ç c = < f Ê ^ G W?úÐ,º , L\* » > 1' AØ B , Ft U  
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U Æ = i ?·"x , L\* p ü >

6 = , L\* f &i Æ a > @~ &i , ^ G W52> ² ² 1b6 P  
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8¥³ ,º 5 : [ P5 , • 7B 5 : [ , ?8¥³ ,º C × LÒ>

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? = Ë = Cα^Æ AðË = 5 Ò, < Ë = 6; 8 >, µ û Ë = +Uº v ? Cα^>

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= Ë = œ™b 6 3 , ¥ b C 3 > , ¥ b » i D!™b » i C1\ , O !™b p  
ü ´ Ë = Â D , = œ, CF6F µ Ç

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 = { LÒ Ê , L\* C × µ B04ü O Ç  
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 \* < ð Dá3 A÷C | , = # ð ¾ y Ž æ = 0D × , ± Aæ ÷ = q ? · P5 = J¾ / !š !WN ¯ \$ , °  
 Ō , ¾ y A÷D1 • >  
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 E , ÑC ] U , > B H NÓ • , 8) G Mt Á @ , + ^ > ž r ~ E > ´ × û - U Ô µ  
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$$i = !\alpha' \bullet \quad | \quad \alpha \sim \quad \ddot{E} = \hat{O} \, \Phi \, \acute{U} \quad + \bullet !\check{s} \quad = \tfrac{1}{2}, \, ,^{\circ} \, @H \, y \, >$$

1b?G < ¶ e?·"x

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|   |  |  |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
|---|--|--|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|   |  |  |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| 1 |  |  | 1 | 1. $\geq \Phi 400$ mm<br>2. $\geq \Phi 260$ mm<br>3. $\geq 400$ mm<br>4. $\geq \Phi 285$ mm<br>5. $\geq \Phi 165$ mm<br>6. A2-5 ASA<br>7. MT No.6<br>8. $\geq \Phi 57$ mm<br>9. $\geq \Phi 42$ mm<br>10. $\geq 70\text{-}3000$ r/min<br>11. ( /30 ) $\geq 7.5/11$ kW<br>12. / $\geq \Phi 70/80$ mm<br>13. 4 MT No.<br>14. 45 ° DEG<br>15. X/Z $\geq 164/410$ mm<br>16. X/Z $\geq 12/16$ m/min<br>17. $\geq 8$<br>18. / 20 × 20/ $\Phi 32$ mm<br>19.<br>20. 25 kVA<br>21. × × 2370 × 1670 × 1970 mm<br>22. $\geq 3000$ kg |  |

|  |  |  |  |     |      |      |      |   |     |
|--|--|--|--|-----|------|------|------|---|-----|
|  |  |  |  | 23. |      |      |      |   |     |
|  |  |  |  | 24. | NCUC |      | NCUC |   | I/O |
|  |  |  |  | 25. |      |      | CNC  |   |     |
|  |  |  |  | 26. |      |      | CF   | U |     |
|  |  |  |  | 27. |      |      |      |   |     |
|  |  |  |  | 28. |      |      |      |   |     |
|  |  |  |  | 29. |      |      |      |   |     |
|  |  |  |  | 30. |      |      |      |   |     |
|  |  |  |  | 31. |      |      |      |   | I/O |
|  |  |  |  | 32. |      |      |      |   | ;   |
|  |  |  |  | 33. |      |      |      |   |     |
|  |  |  |  | 34. |      | NCUC |      |   |     |
|  |  |  |  | 35. |      |      |      |   |     |
|  |  |  |  | 36. |      |      |      |   |     |
|  |  |  |  | 37. |      |      |      |   |     |
|  |  |  |  | 38. |      |      |      |   |     |
|  |  |  |  | 39. |      |      |      |   |     |

|   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---|-----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2 | 20T | 1 | <p> 1.X <math>\geq 450\text{mm}</math><br/> 2.Y <math>\geq 440\text{mm}</math><br/> 3.Z <math>\geq 450\text{mm}</math><br/> 4.A <math>\geq -120 \quad +120\text{deg}</math><br/> 5.C <math>\geq n \times 360\text{deg}</math><br/> 6.X <math>\quad \quad \quad : -225 \quad +225\text{mm}</math><br/> 7.Y <math>\quad \quad \quad \text{A} \quad \quad \quad : -220 \quad +220\text{mm}</math><br/> 8. <math>\quad \quad \quad \geq 520 \text{ mm}</math><br/> 9. <math>\quad \quad \quad : 70\text{mm}</math><br/> 10. <math>\quad \quad \geq \Phi 400\text{mm}</math><br/> 11. <math>\quad \quad \geq 200\text{kg}</math><br/> 12. <math>\quad \quad \geq \Phi 500 \times 300\text{mm}</math><br/> 13.T <math>\quad : 12\text{H}8 \quad \quad 8 \quad \quad \text{mm}</math><br/> 14. <math>\quad \quad \quad /</math><br/> 15.A/C <math>\quad \quad \geq 1030/318\text{Nm}</math><br/> 16.A/C <math>\quad \quad \geq 543/176\text{Nm}</math><br/> 17. <math>\quad \quad : \text{HSK-A63}</math><br/> 18. <math>\quad \quad : 20\text{kW}</math><br/> 19. <math>\quad \quad : \text{S1:35/S6(40\%)42Nm}</math><br/> 20. <math>\quad \quad \geq 20000\text{rpm}</math><br/> 21. <math>\quad \quad :</math><br/> 22. <math>\quad \quad : 20</math><br/> 23. <math>\quad \quad / \quad \quad : \varphi 20/250\text{mm}</math><br/> 24.X/Y/Z <math>\quad \quad \geq 32/32/32\text{m/min}</math><br/> 25.A/C <math>\quad \quad \geq 100/200\text{rpm}</math><br/> 26.X/Y/Z <math>\quad \quad \leq 0.008/0.008/0.008\text{mm}</math> </p> |
|---|-----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|          |                            |      |     |
|----------|----------------------------|------|-----|
| 27.X/Y/Z | ≤ 0.006/0.006/0.006mm      |      |     |
| 28.X/Y/Z | ≤ 0.006/0.006/0.006mm      |      |     |
| 29.X/Y/Z | ≤ 0.004/0.004/0.004mm      |      |     |
| 30.A/C   | ≤ 6sec                     |      |     |
| 31.A/C   | ≤ 4sec                     |      |     |
| 32.      | × × :1900 × 3962 × 2950 mm |      |     |
| 33.      | :6000kg                    |      |     |
| 34.      | :                          |      |     |
|          | NCUC                       | RTCP |     |
|          | ≥ 10.4 ' ' LED             |      |     |
|          | ≥ 100Mb/s                  | ≥ 4  | DNC |
|          | DNC                        |      |     |
|          |                            | I/O  | CF  |
| USB      |                            |      |     |
| 1 CNC    |                            |      |     |
|          | 9 +2                       | 6    |     |
|          | 0.5ms                      |      |     |
|          | 10-4mm/deg/ inch           |      |     |
|          | 999.999 /                  |      |     |
|          | NURBS                      |      |     |
|          | 2048                       |      |     |
|          | 7200 /                     |      |     |
| MDI      | M S T                      |      |     |

|  |  |  |     |                  |        |
|--|--|--|-----|------------------|--------|
|  |  |  |     | /S               |        |
|  |  |  | 2   | CNC              |        |
|  |  |  |     | 999999.999mm(    | 10-3 ) |
|  |  |  |     | 20 /             |        |
|  |  |  |     | 10-4mm/deg/ inch |        |
|  |  |  |     | /                |        |
|  |  |  |     | /                |        |
|  |  |  | 35. | NCUC             |        |
|  |  |  | 36. |                  |        |
|  |  |  | 37. |                  |        |
|  |  |  | 38. |                  |        |
|  |  |  | 1)  |                  |        |
|  |  |  | 2)  |                  |        |
|  |  |  | 3)  |                  |        |
|  |  |  | 4)  |                  | I/O    |
|  |  |  | 5)  |                  |        |

|   |  |  |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
|---|--|--|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 3 |  |  | 1 | <p>1.</p> <p><math>\pm X, \pm Y, +Z</math></p> <p><math>2\sigma \leq 1\mu m</math></p> <p><math>XY \pm 15^\circ, Z+5mm</math></p> <p><math>XY \leq 1N \quad Z \leq 6N</math></p> <p><math>\leq 10M</math></p> <p>( 5% ) <math>\geq 200</math></p> <p>IP67</p> <p>/</p>                                                                                                                                                                                                                                                                                                                    |  |
| 4 |  |  | 1 | <p>1 6</p> <p>2 <math>\geq 25Kg</math></p> <p>3 <math>\leq \pm 0.05mm</math></p> <p>4 1849.5mm</p> <p>5 RV</p> <p>6 Ethercat</p> <p>7 Ethercat Ethercat</p> <p>VGA USB DC24V</p> <p>8 Ethercat</p> <p>9</p> <p>J1 <math>\geq 140^\circ /s, 2.44 \text{ rad/s}</math></p> <p>J2 <math>\geq 141^\circ /s, 2.46 \text{ rad/s}</math></p> <p>J3 <math>\geq 171^\circ /s, 2.98 \text{ rad/s}</math></p> <p>J4 <math>\geq 225^\circ /s, 3.92 \text{ rad/s}</math></p> <p>J5 <math>\geq 225^\circ /s, 3.92 \text{ rad/s}</math></p> <p>J6 <math>\geq 225^\circ /s, 3.92 \text{ rad/s}</math></p> |  |

|     |                               |
|-----|-------------------------------|
| 10  |                               |
| J1  | $\geq \pm 155^\circ$          |
| J2  | $\geq -178/-2^\circ$          |
| J3  | $\geq +128/+412^\circ$        |
| J4  | $\geq \pm 360^\circ$          |
| J5  | $\geq \pm 131^\circ$          |
| J6  | $\pm 360^\circ$               |
| 11  |                               |
| 12  | J6 2.0kg J5 3.7kg J4 3.7kg    |
| 13  | J6 40.9NM J5 79.8NM J4 76.5NM |
| 14  | IP54                          |
| 15  | $\geq 210\text{KG}$           |
| 16  | Ethercat                      |
|     | IO                            |
| 17  |                               |
|     | 8                             |
|     | +                             |
|     | 270*230*46 mm                 |
|     | 1G 2G                         |
| CPU | : 1.2GHz                      |
|     | 24V 10W                       |
|     |                               |
|     | USB                           |
| 18  |                               |
| 19  |                               |
| 20  |                               |

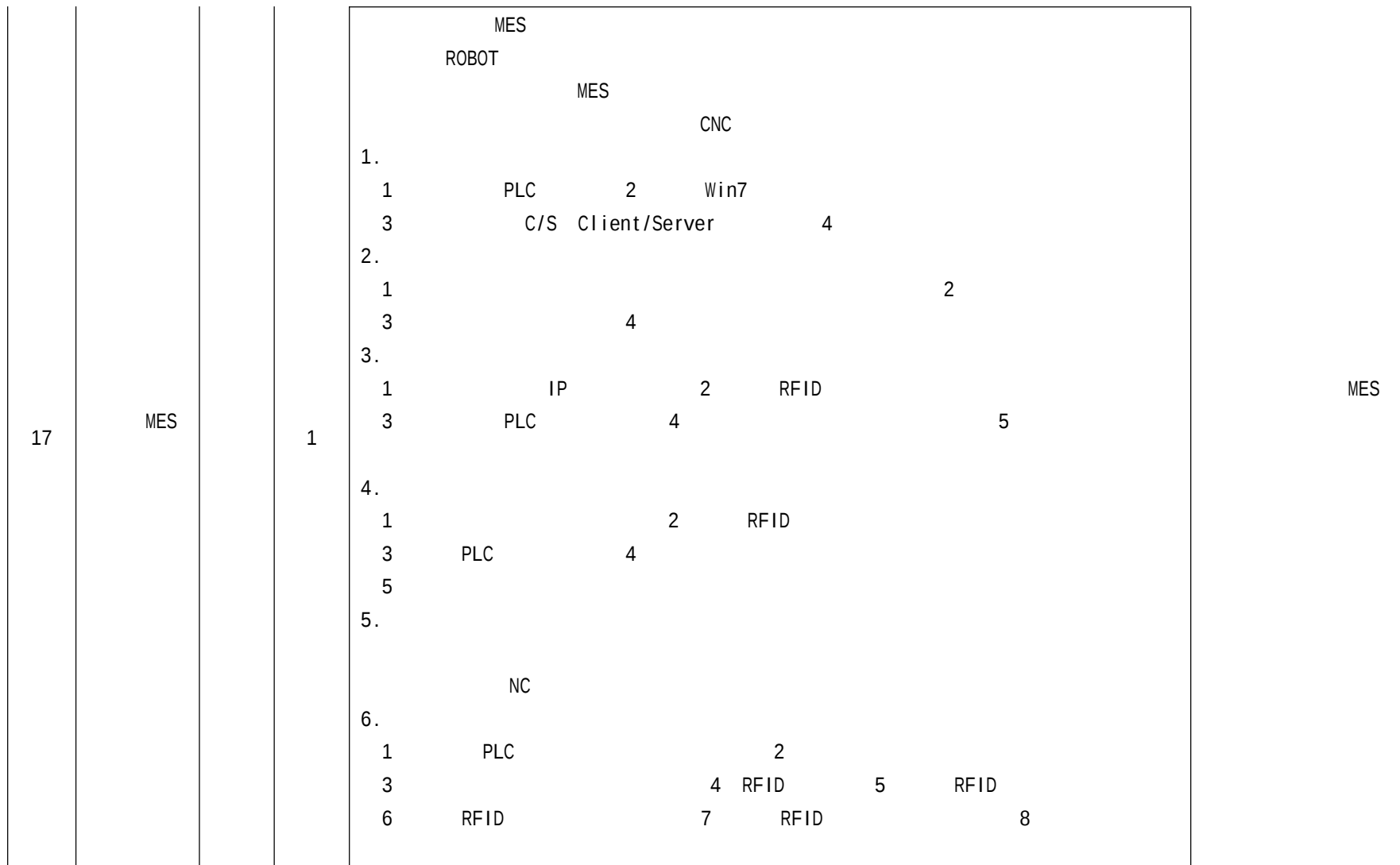
|   |  |  |   |                                                                                                                                                                                                                                 |          |
|---|--|--|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
|   |  |  |   | 21                                                                                                                                                                                                                              |          |
| 5 |  |  | 1 | 1. $\geq 350\text{mm}$<br>2. $\backslash \geq 5\text{m} \backslash 3.8\text{m}$<br>3. $+$<br>4.<br>5.<br>6. $\geq 0.7\text{m/s}$<br>7.<br>8. $\geq 500\text{kg}$<br>9. $\leq \pm 0.2\text{mm}$<br>10. $\pm 0.3\text{mm}$<br>11. | 3.8<br>5 |
| 6 |  |  | 1 | 1.<br>2.<br>3. 3<br>4.<br>5. $\geq 20\text{KG}$<br>6. $\geq 492\text{N}$<br>7. $\geq 215\text{N}$<br>8. $\leq \pm 0.1$<br>9. 6<br>10. $0.49\text{-}0.7\text{Mpa}$<br>11. AW G20<br>12. RFID<br>13. ISO-15693<br>14. 13.56MHZ    |          |

|   |  |  |   |                                                                                                                                                                                 |                    |
|---|--|--|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
|   |  |  |   | 15. 23dBm<br>16. 26.5kbit/s<br>17. 0-60mm<br>18. RS485<br>19. 115200bit/s<br>20.<br>21.<br>22. -25 -+70<br>23. -25 -+85<br>IP67                                                 |                    |
| 7 |  |  | 1 | 1<br>2 3<br>3 +<br>4                                                                                                                                                            |                    |
| 8 |  |  | 1 | 1.<br>1 5 6 30<br>2<br>3<br>4 $\geq 1510\text{mm} \times 500\text{mm} \times 2031\text{mm}$<br>2.RFID<br>1 ISO-15693<br>2 13.56MHZ<br>3 0-45mm<br>4 EPPROM<br>5 $\geq 112$<br>6 | 5 6 30<br><br>RFID |

|    |  |  |   |                                                                                                                                                                                                                 |  |
|----|--|--|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|    |  |  |   | 7<br>8<br>9<br>10<br>11<br>12<br>13 10<br>10<br>PBT<br>-25 -+75<br>-40 -+85<br>IP67                                                                                                                             |  |
| 9  |  |  | 1 | 1. PLC<br>PROFINET<br>TCP/IP ISO-on-TCP S7<br>I/O<br>CPU PROFINET I/O<br>TCP<br>125kb /4MB<br>SD<br>8<br>1<br>2<br>3 HMI 8<br>3 GET/PUT<br>2. Modbus TCP/IP<br>3. TP900<br>4.<br>5.<br>6. 650mm × 420mm × 980mm |  |
| 10 |  |  | 1 |                                                                                                                                                                                                                 |  |

|    |  |  |   |                                                                                             |    |
|----|--|--|---|---------------------------------------------------------------------------------------------|----|
| 11 |  |  | 1 | +                                                                                           |    |
|    |  |  |   | $\geq 1.2m$                                                                                 |    |
| 12 |  |  | 1 | 1<br>2<br>3<br>4                                                                            | 10 |
| 13 |  |  | 3 | 3<br>$\geq i7$<br>$\geq 8GB$<br>$\geq 500GB$<br>$\geq 2GB$<br>windows7/10 64<br>$\geq 21.5$ |    |
| 14 |  |  | 3 | $\geq 40$<br>2<br>$\geq 55$<br>1                                                            |    |
| 15 |  |  | 1 | 1<br>2                                                                                      |    |

|    |  |   |                                                                                                                                                                                                                                                                                                                                                                                                                               |     |
|----|--|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 16 |  | 1 | <p>1.</p> <p>XY mm 290 × 200</p> <p>Z mm 300</p> <p>XY μ m 2.5+L/200(L: mm)</p> <p>Z μ m 2.5+L/200(L: mm)</p> <p>XYZ μ m 1</p> <p>mm 375 × 275</p> <p>kg 25</p> <p>2.</p> <p>500</p> <p>0.7X - 4.5X</p> <p>18X - 230X</p> <p>mm 90 ± 2</p> <p>mm 8.57 - 1.33</p> <p>LED LED</p> <p>3.</p> <p>MES</p> <p>(kg) 240</p> <p>× × mm 900 × 644 × 1600</p> <p>AC200-240V 50/60Hz 450W ≤ 4 Ω</p> <p>20 ± 2 , 30%-80%, 0.002g 15Hz</p> | MES |
|----|--|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|



|    |  |  |   |                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
|----|--|--|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|    |  |  |   | <div> <div>7.</div> <div> <div>1</div> <div>4</div> <div>6</div> <div>8</div> <div>8.</div> <div>1</div> <div>3</div> <div>5</div> <div>8</div> <div>9.</div> <div>1</div> <div>10.</div> </div> <div> <div>RFID</div> </div> <div> <div>7</div> <div>6</div> </div> <div> <div>2</div> <div>5</div> <div>9</div> <div>4</div> <div>9</div> <div>2</div> </div> <div> <div>3</div> <div>PLC</div> <div>7</div> <div>MES</div> </div> </div> |  |
| 18 |  |  | 1 |                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |