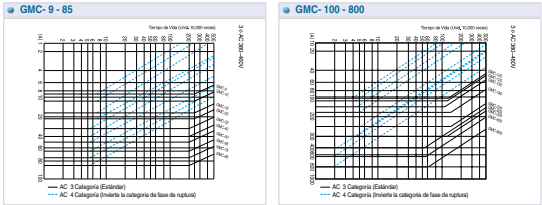
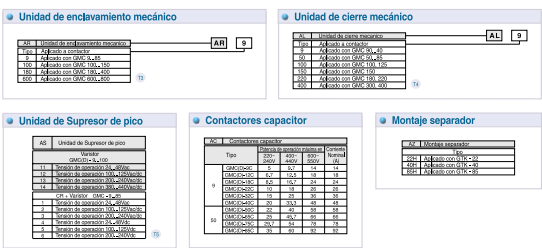
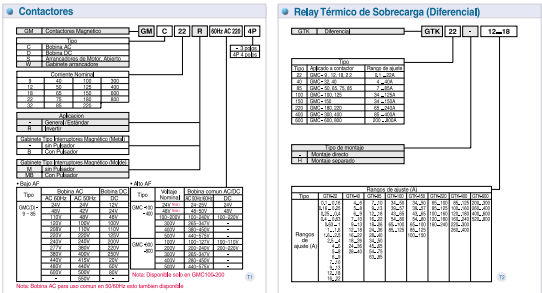


# Tiempo de duración eléctrica



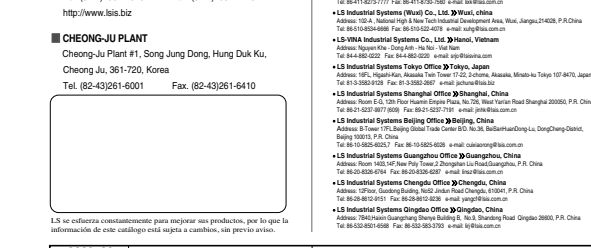
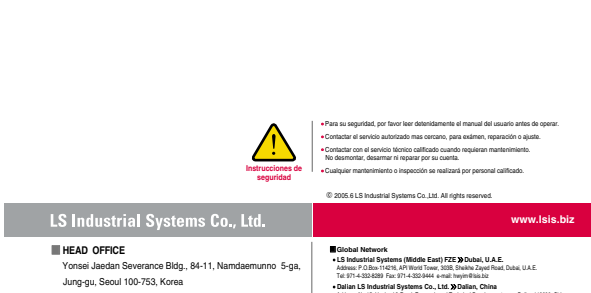
# Tipo de designaciones



# Contadores y Relés de Sobrecarga



# Tipo de designaciones



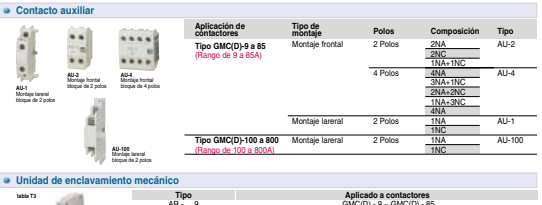
# Contadores y Relés de Sobrecarga



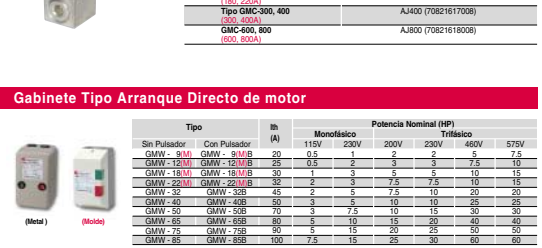
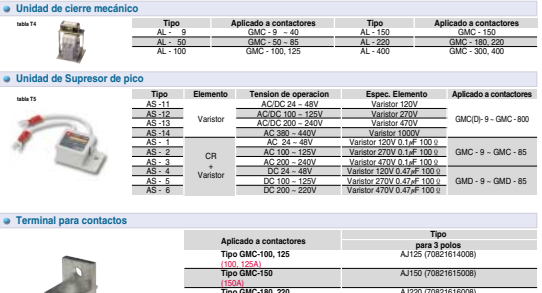
# Tipo de designaciones



# Contadores y Relés de Sobrecarga



# Tipo de designaciones



| tamaño                         |                        | 9A                                                                                                              |     | 12A                                                                                                             |     | 18A                                                                                                             |     | 22A              |     |    |
|--------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------|-----|------------------|-----|----|
| Contactor de 3 Polos           |                        |                                 |     |                                                                                                                 |     |                                                                                                                 |     |                  |     |    |
| Tipos                          | Bobina AC<br>Bobina DC | GMC-9<br>GMD-9                                                                                                  |     | GMC-12<br>GMD-12                                                                                                |     | GMC-18<br>GMD-18                                                                                                |     | GMC-22<br>GMD-22 |     |    |
| Rangos / IEC 40947-4           |                        | kW                                                                                                              | A   | kW                                                                                                              | A   | kW                                                                                                              | A   | kW               | A   |    |
|                                | AC1                    |                                                                                                                 | 25  |                                                                                                                 | 25  |                                                                                                                 | 40  |                  | 40  |    |
|                                | AC3                    | 200/240V                                                                                                        | 2.5 | 11                                                                                                              | 3.5 | 13                                                                                                              | 4.5 | 18               | 5.5 | 22 |
|                                |                        | 380/440V                                                                                                        | 4   | 9                                                                                                               | 5.5 | 12                                                                                                              | 7.5 | 18               | 11  | 22 |
|                                |                        | 500/550V                                                                                                        | 4   | 7                                                                                                               | 7.5 | 12                                                                                                              | 7.5 | 13               | 15  | 22 |
| Rangos / UL508                 |                        | hp                                                                                                              | A   | hp                                                                                                              | A   | hp                                                                                                              | A   | hp               | A   |    |
|                                | 690V                   | 4                                                                                                               | 5   | 7.5                                                                                                             | 9   | 7.5                                                                                                             | 9   | 15               | 18  |    |
|                                | Corriente continua     |                                                                                                                 | 20  |                                                                                                                 | 25  |                                                                                                                 | 30  |                  | 32  |    |
|                                | Monofásico             | 115V                                                                                                            | 0.5 |                                                                                                                 | 0.5 |                                                                                                                 | 1   |                  | 2   |    |
|                                |                        | 230V                                                                                                            | 1   |                                                                                                                 | 2   |                                                                                                                 | 3   |                  | 3   |    |
| Trifásico                      |                        | 200V                                                                                                            | 2   |                                                                                                                 | 3   |                                                                                                                 | 5   |                  | 7   |    |
|                                |                        | 230V                                                                                                            | 2   |                                                                                                                 | 3   |                                                                                                                 | 5   |                  | 7.5 |    |
|                                |                        | 440V                                                                                                            | 5   |                                                                                                                 | 7.5 |                                                                                                                 | 10  |                  | 10  |    |
|                                |                        | 575V                                                                                                            | 7.5 |                                                                                                                 | 10  |                                                                                                                 | 15  |                  | 15  |    |
|                                | Tamaño NEMA            |                                                                                                                 | 00  |                                                                                                                 | 00  |                                                                                                                 | 0   |                  | 0   |    |
| Adicional contactos auxiliares |                        | <br>2 poles<br>Montaje Frontal |     | <br>4 poles<br>Montaje Frontal |     | <br>3 poles<br>Montaje Lateral |     |                  |     |    |

|                      |                        |                                                                                   |                      |                      |                      |
|----------------------|------------------------|-----------------------------------------------------------------------------------|----------------------|----------------------|----------------------|
| Contactor de 4 Polos |                        |  |                      |                      |                      |
| Tipos                | Bobina AC<br>Bobina DC | GMC-9/4<br>GMD-9/4                                                                | GMC-12/4<br>GMD-12/4 | GMC-18/4<br>GMD-18/4 | GMC-22/4<br>GMD-22/4 |
| AC 1(A)              |                        | 20                                                                                | 20                   | 25                   | 32                   |

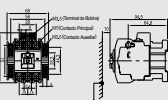
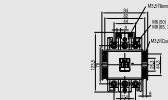
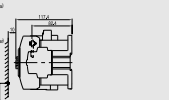
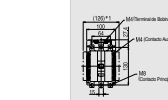
#### Reles de Sobrecarga

|                                |                             |                                                                                   |                                                                                                                              |                                                                             |                                                                                   |                            |
|--------------------------------|-----------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------|
| Estilo bimetalico<br>Tipo GT   |                             |  | Rangos de ajuste (A)<br>0.1 - 0.16<br>0.16 - 0.25<br>0.25 - 0.4<br>0.4 - 0.63<br>0.63 - 1<br>1 - 1.6<br>1.6 - 2.5<br>2.5 - 4 | 4 - 4<br>5 - 8<br>6 - 9<br>7 - 10<br>8 - 13<br>12 - 16<br>16 - 22<br>22 - 4 |  | Base para montaje separado |
| Clase 10A                      | Diferencial                 | GTK-22                                                                            |                                                                                                                              |                                                                             |                                                                                   |                            |
|                                | Sin diferencial (3-Termico) | GTH-22/3                                                                          |                                                                                                                              |                                                                             |                                                                                   |                            |
| Clase 20                       | Diferencial                 | GTK-22/L                                                                          |                                                                                                                              |                                                                             |                                                                                   |                            |
|                                | Sin diferencial (2-Termico) | GTH-22                                                                            |                                                                                                                              |                                                                             |                                                                                   |                            |
| Estilo Electrónico<br>Tipo GMP |                             |  | Rangos de ajuste (A)<br>0.1 - 1.8<br>1 - 5<br>4.4 - 22                                                                       | 4 - 4<br>5 - 8<br>6 - 9<br>7 - 10<br>8 - 13<br>12 - 16<br>16 - 22<br>22 - 4 |  | Tipo de montaje separado   |
| Clase 1 a 30 Ajustable         |                             | GMP22                                                                             |                                                                                                                              |                                                                             |                                                                                   |                            |
| Dimensión (mm)                 |                             |                                                                                   |                                                                                                                              |                                                                             |                                                                                   |                            |

| 32A                                                                               | 40A                        | 50A                                                                                | 65A                        | 75A                                                                                 | 85A                        |
|-----------------------------------------------------------------------------------|----------------------------|------------------------------------------------------------------------------------|----------------------------|-------------------------------------------------------------------------------------|----------------------------|
|   |                            |  |                            |                                                                                     |                            |
| GMC-32<br>GMD-32                                                                  | GMC-40<br>GMD-40           | GMC-50<br>GMD-50                                                                   | GMC-65<br>GMD-65           | GMC-75<br>GMD-75                                                                    | GMC-85<br>GMD-85           |
| kW                                                                                | A                          | kW                                                                                 | A                          | kW                                                                                  | A                          |
| 7.5                                                                               | 11                         | 15                                                                                 | 18.5                       | 22                                                                                  | 25                         |
| 15                                                                                | 32                         | 18.5                                                                               | 40                         | 22                                                                                  | 50                         |
| 30                                                                                | 43                         | 33                                                                                 | 60                         | 37                                                                                  | 64                         |
| 18.5                                                                              | 28                         | 22                                                                                 | 32                         | 30                                                                                  | 43                         |
| 18.5                                                                              | 20                         | 22                                                                                 | 23                         | 30                                                                                  | 28                         |
| hp                                                                                | A                          | hp                                                                                 | A                          | hp                                                                                  | A                          |
| 45                                                                                | 50                         | 70                                                                                 | 80                         | 90                                                                                  | 100                        |
| 2                                                                                 | 3                          | 3                                                                                  | 5                          | 5                                                                                   | 7.5                        |
| 5                                                                                 | 5                          | 7.5                                                                                | 10                         | 15                                                                                  | 15                         |
| 7.5                                                                               | 10                         | 10                                                                                 | 15                         | 20                                                                                  | 25                         |
| 10                                                                                | 10                         | 15                                                                                 | 20                         | 25                                                                                  | 30                         |
| 20                                                                                | 25                         | 30                                                                                 | 40                         | 50                                                                                  | 50                         |
| 20                                                                                | 25                         | 30                                                                                 | 40                         | 50                                                                                  | 50                         |
| 1                                                                                 | 2                          | 2                                                                                  | 2                          | 3                                                                                   | 3                          |
|  | 2 poles<br>Montaje Frontal |  | 4 poles<br>Montaje Frontal |  | 3 poles<br>Montaje Lateral |

|                      |                      |                      |                      |                      |                      |
|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| GMC-32/4<br>GMD-32/4 | GMC-40/4<br>GMD-40/4 | GMC-50/4<br>GMD-50/4 | GMC-65/4<br>GMD-65/4 | GMC-75/4<br>GMD-75/4 | GMC-85/4<br>GMD-85/4 |
| 50                   | 60                   | 80                   | 100                  | 110                  | 135                  |

|                                                                                                                                |       |                                          |                                                                                                             |                            |                                          |
|--------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------|-------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------------|
| Rangos de ajuste (A)<br>4 - 4<br>12 - 18<br>0.25 - 0.4<br>0.4 - 9<br>6 - 9<br>7 - 10<br>8 - 13<br>12 - 16<br>16 - 22<br>22 - 4 | GT-40 | GTK-40<br>GTH-40/3<br>GTK-40/L<br>GTH-40 | Rangos de ajuste (A)<br>7 - 10<br>12 - 18<br>12 - 48<br>12 - 48<br>16 - 22<br>16 - 22<br>18 - 26<br>24 - 36 | GT-85                      | GTK-85<br>GTH-85/3<br>GTK-85/L<br>GTH-85 |
| Base para montaje separado                                                                                                     |       | Base para montaje separado               |                                                                                                             | Base para montaje separado |                                          |
| Rangos de ajuste (A)<br>4 - 20<br>8 - 40                                                                                       | GT-40 | GTK-40<br>GTH-40/3<br>GTK-40/L<br>GTH-40 | Rangos de ajuste (A)<br>16 - 80A                                                                            | GT-85                      | GTK-85<br>GTH-85/3<br>GTK-85/L<br>GTH-85 |
| Tipo de montaje separado                                                                                                       |       | Tipo de montaje separado                 |                                                                                                             | Tipo de montaje separado   |                                          |

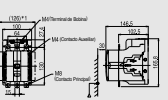
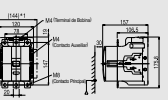
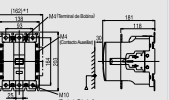
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| Frame size           |                       | 100A                                                                               |            | 125A       |            | 150A       |            |            |
|----------------------|-----------------------|------------------------------------------------------------------------------------|------------|------------|------------|------------|------------|------------|
| Contactor de 3 Polos |                       |  |            |            |            |            |            |            |
| Tipos                | AC/DC<br>Bobina comun | GMC-100                                                                            |            | GMC-125    |            | GMC-150    |            |            |
| Rangos / IEC60947-4  |                       | kW                                                                                 | A          | kW         | A          | kW         | A          |            |
|                      | AC1                   |                                                                                    | <b>160</b> |            | <b>160</b> |            | <b>210</b> |            |
|                      | AC3                   | 200/240V                                                                           | 30         | 105        | 37         | 125        | 45         | 150        |
|                      |                       | <b>380/440V</b>                                                                    | <b>55</b>  | <b>105</b> | <b>60</b>  | <b>120</b> | <b>75</b>  | <b>150</b> |
|                      |                       | 300/550V                                                                           | 55         | 85         | 60         | 90         | 90         | 140        |
| Rangos / UL508       |                       | 690V                                                                               | 55         | 65         | 60         | 70         | 90         | 100        |
|                      |                       | hip                                                                                |            | A          | hip        | A          | hip        | A          |
|                      |                       |                                                                                    |            | 160        |            | 160        |            | 210        |
|                      | Corriente continua    |                                                                                    |            |            |            |            |            |            |
|                      | Monofásico            | 115V                                                                               | 7.5        |            | 10         |            | 15         |            |
|                      |                       | 230V                                                                               | 15         |            | 20         |            | 25         |            |
| Trifásico            |                       | 200V                                                                               | 30         |            | 40         |            | 40         |            |
|                      |                       | 230V                                                                               | 30         |            | 40         |            | 50         |            |
|                      |                       | <b>460V</b>                                                                        | <b>60</b>  |            | <b>75</b>  |            | <b>100</b> |            |
|                      |                       | 575V                                                                               | 60         |            | 75         |            | 100        |            |
| Tamaño NEMA          |                       | 3                                                                                  |            | 3          |            | 4          |            |            |

|                                |                       |                                                                                                                          |           |           |
|--------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------|-----------|-----------|
| Adicional contactos auxiliares |                       | <br>Au-100<br>INA-NF, Montaje lateral |           |           |
| Contactor de 4 Polos           |                       |                                       |           |           |
| Tipos                          | AC/DC<br>Bobina comun | GMC-100/4                                                                                                                | GMC-125/4 | GMC-150/4 |
| AC1(A)                         |                       | 160                                                                                                                      | 160       | 210       |

#### Reles de Sobrecarga

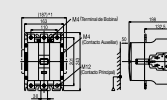
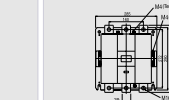
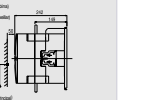
| Estilo bimetalico |                             |    |  |               |
|-------------------|-----------------------------|---------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------|
|                   |                             | Rangos de ajuste (A)<br>34-50<br>38-57<br>40-65<br>44-65<br>54-80<br>60-100<br>85-125 |  | Rangos de ajuste (A)<br>34-50<br>38-57<br>40-65<br>44-65<br>54-80<br>60-100<br>85-125<br>100-150 |
| Clase 10A         | Diferencial                 | GTK-100                                                                               |  | GTK-150                                                                                          |
|                   | Sin diferencial (3-Térmico) | GTH-100/3                                                                             |  | GTH-150/3                                                                                        |
| Clase 20          | Diferencial                 | GTK-100/L                                                                             |  | GTK-150/L                                                                                        |
|                   | Sin diferencial (2-Térmico) | GTH-100                                                                               |  | GTH-150                                                                                          |

|                                                                                     |                                                                                     |                                                                                     |
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| 180A                                                                               | 220A    | 300A                                                                               | 400A    | 600A                                                                               | 800A    |
|------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------------|---------|
|  |         |  |         |  |         |
| GMC-180                                                                            | GMC-220 | GMC-300                                                                            | GMC-400 | GMC-600                                                                            | GMC-800 |
| kW                                                                                 | A       | kW                                                                                 | A       | kW                                                                                 | A       |
| 230                                                                                | 275     | 350                                                                                | 450     | 660                                                                                | 900     |
| 55                                                                                 | 180     | 75                                                                                 | 250     | 90                                                                                 | 300     |
| 90                                                                                 | 180     | 132                                                                                | 230     | 160                                                                                | 300     |
| 110                                                                                | 180     | 132                                                                                | 200     | 160                                                                                | 250     |
| 110                                                                                | 120     | 132                                                                                | 150     | 200                                                                                | 220     |
| hp                                                                                 | A       | hp                                                                                 | A       | hp                                                                                 | A       |
| 230                                                                                | 275     | 350                                                                                | 450     | 660                                                                                | 900     |
| 15                                                                                 | 15      | 15                                                                                 | 15      | 15                                                                                 | 15      |
| 30                                                                                 | 40      | 40                                                                                 | 40      | 40                                                                                 | 40      |
| 60                                                                                 | 60      | 60                                                                                 | 60      | 60                                                                                 | 60      |
| 60                                                                                 | 75      | 100                                                                                | 125     | 150                                                                                | 250     |
| 125                                                                                | 160     | 200                                                                                | 300     | 400                                                                                | 600     |
| 125                                                                                | 150     | 200                                                                                | 300     | 400                                                                                | 600     |
| 4                                                                                  | 4       | 5                                                                                  | 5       | 6                                                                                  | 7       |
| Adicional contactos auxiliares                                                     |         | 3                                                                                  |         | 4                                                                                  |         |

|                                                                                     |           |           |           |           |           |  |
|-------------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|--|
|  |           |           |           |           |           |  |
|  |           |           |           |           |           |  |
| GMC-180/4                                                                           | GMC-220/4 | GMC-300/4 | GMC-400/4 | GMC-600/4 | GMC-800/4 |  |
| 230                                                                                 | 275       | 350       | 450       | 640       | 900       |  |

|                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>Rangos de ajuste (A)</p> <ul style="list-style-type: none"><li>45-100</li><li>85-125</li><li>100-150</li><li>120-180</li><li>140-240</li></ul> <p>GT-220</p> |  <p>Rangos de ajuste (A)</p> <ul style="list-style-type: none"><li>85-125</li><li>100-150</li><li>120-180</li><li>140-240</li><li>220-300</li><li>240-400</li></ul> <p>GT-400</p> |  <p>Rangos de ajuste (A)</p> <ul style="list-style-type: none"><li>220-300</li><li>240-400</li><li>400-600</li><li>500-800</li></ul> <p>GT-800</p> |
| GTK-220                                                                                                                                                                                                                                             | GTK-400                                                                                                                                                                                                                                                              | GTK-800                                                                                                                                                                                                                               |
| GTH-220/3                                                                                                                                                                                                                                           | GTH-400/3                                                                                                                                                                                                                                                            | GTH-600/3                                                                                                                                                                                                                             |
| GTH-220                                                                                                                                                                                                                                             | GTH-400                                                                                                                                                                                                                                                              | GTH-600                                                                                                                                                                                                                               |
| GTH-220/L                                                                                                                                                                                                                                           | GTH-400/L                                                                                                                                                                                                                                                            | GTH-600/L                                                                                                                                                                                                                             |

|                                                                                     |                                                                                     |                                                                                     |
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