

MT325A

#### MCB 3P 6kA B-25A 3M

### **Technical characteristics**

| Type of pole       3 i         Curve       1         Functions       1         Configuration       N         Number of modules       1         Connectivity       1         Top connection alignement for modular devices       Aligned termina         Bottom connection alignement for modular devices       Aligned termina         Main electrical features       Aligned termina         Rated short circuit breaking capacity Icn AC according IEC60898-1       6 k/         Rated operational voltage Ue       230 / 400 V         Frequency       50/60 H         Voltage       200 V         Rated insulation voltage       500 V         Rated service breaking capacity Ics AC according IEC 60898-1       6 k/         Caccording IEC 60898-1       6 k/         Rated insulation voltage       500 V         Rated current       25 /         Rated service breaking capacity Ics AC according IEC 60898-1       6 k/         min/maxit threshold value of the AC thermal operation       1.13 / 1.45 II         Magnetic regulating current       3 / 5 II         min/maxit threshold value of the DC thermal operation       4 / 7 II         min/maxit threshold value of the DC thermal operation       1.13 / 1.45 II         min/maxit   | Number of protected poles  | 3                |
|--|--|------------------|
| Curve a functions Concurrently switching N-neutral N Configuration Number of modules a functionalignement for modular devices Aligned termina Bottom connection alignement for modular devices Aligned termina Bottom connection alignement for modular devices Aligned termina Bottom connection alignement for modular devices Aligned termina Main electrical features Rated short circuit breaking capacity Icn AC according IEC60898-1 6 kd Rated operational voltage Ue 230 / 400 V Frequency 50/60 H Voltage Rated insulation voltage Electric current 25 / Rated service breaking capacity Ics AC according IEC60898-1 6 kd min/maxi threshold value of the AC thermal operation 1.13 / 1.45 In Magnetic regulating current 3 / 5 I min/maxi threshold value of the DC magnetic operation 1.13 / 1.45 In Magnetic coperation 1.13 / 1.45 In M | Number of poles  | 3 P              |
| Functions         Concurrently switching N-neutral       N         Configuration       N         Number of modules       S         Connectivity       S         Top connection alignement for modular devices       Aligned termina         Bottom connection alignement for modular devices       Aligned termina         Main electrical features       Aligned termina         Main electrical features       S         Rated short circuit breaking capacity Icn AC according IEC60898-1       6 k/         Rated operational voltage Ue       230 / 400 N         Frequency       50/60 H         Voltage       S         Rated insulation voltage       500 N         Rated insulation voltage       500 N         Rated insulation voltage       500 N         Rated insulation voltage       6 k/         Rated insulation voltage       500 N         Rated service breaking capacity Ics AC according IEC 60898-1       6 k/         min/maxi threshold value of the AC thermal operation       1.13 / 1.45 In         Magnetic regulating currrent       3 / 5 In         min/maxi threshold value of the DC magnetic operation       1.13 / 1.45 In         min/maxi threshold value of the DC thermal operation       1.13 / 1.45 In         operation  | Type of pole   | 3 P              |
| Concurrently switching N-neutral Ni<br>Configuration Number of modules : Connectivity Top connection alignement for modular devices Aligned termina Bottom connection alignement for modular devices Aligned termina Main electrical features Rated short circuit breaking capacity Icn AC according IEC60898-1 6 k/ Rated operational voltage Ue 230 / 400 V Frequency 50/60 H: Voltage Rated insulation voltage 300 Ni<br>Rated insulation voltage 400 V Electric current Rated service breaking capacity Ics AC according IEC 60898-1 6 k/ Rated service breaking capacity Ics AC according IEC 60898-1 6 k/ IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII   | Curve  | В                |
| Configuration         Number of modules         Connectivity         Top connection alignement for modular devices         Bottom connection alignement for modular devices         Main electrical features         Rated short circuit breaking capacity Icn AC according IEC60898-1         Condeterminal voltage Ue         Prequency         Solidon         Voltage         Rated insulation voltage         Electric current         Rated service breaking capacity Ics AC according IEC 60898-1         according IEC 60898-1         Rated insulation voltage         Solon N         Prequency         Solon N         Rated insulation voltage         Rated insulation voltage         Rated insulation voltage         Rated service breaking capacity Ics AC according IEC 60898-1         Good IEC current         Rated service breaking capacity Ics AC according IEC 60898-1         Good IEC 60898-1         Magnetic regulating current         3/5 In         min/maxi threshold value of the AC thermal operation         1.13/1.45 In         Magnetic regulating current         3/5 In         min/maxi threshold value of the DC thermal operation         1.13/1.45 In <td>Functions</td> <td></td>  | Functions  |                  |
| Number of modules : Connectivity Top connection alignement for modular devices Aligned termina Bottom connection alignement for modular devices Aligned termina Main electrical features Rated short circuit breaking capacity Icn AC according IEC60898-1 6 k/ Rated operational voltage Ue 230 / 400 \ Frequency 50/60 H Voltage Rated insulation voltage 500 \ Rated insulation voltage 500 \ Rated service breaking capacity Ics AC according IEC 60898-1 6 k/ min/maxi threshold value of the AC thermal operation 1.13 / 1.45 In Magnetic regulating current 3 / 5 In min/maxi threshold value of the DC magnetic operation 1.13 / 1.45 In Breaking capacity on 1 pole for IT 4000 NF 60947-2 3 k/   | Concurrently switching N-neutral                                     | No               |
| Connectivity         Top connection alignement for modular devices       Aligned terminal         Bottom connection alignement for modular devices       Aligned terminal         Main electrical features       Aligned terminal         Main electrical features       Aligned terminal         Rated short circuit breaking capacity Icn AC according IEC60898-1       6 k/         Rated operational voltage Ue       230 / 400 N         Frequency       50/60 H         Voltage       200 N         Rated insulation voltage       500 N         Rated insulation voltage       500 N         Rated service breaking capacity Ics AC according IEC 60898-1       6 k/         min/maxi threshold value of the AC thermal operation       1.13 / 1.45 In         Magnetic regulating current       3 / 5 In         min/maxi threshold value of the DC magnetic operation       4 / 7 In         min/maxi threshold value of the DC thermal operation       1.13 / 1.45 In         Breaking capacity on 1 pole for IT 4000 NF       3 k/  | Configuration  |                  |
| Top connection alignement for modular devices       Aligned terminal         Bottom connection alignement for modular devices       Aligned terminal         Main electrical features       Aligned terminal         Rated short circuit breaking capacity Icn AC according IEC60898-1       6 k/         Rated operational voltage Ue       230 / 400 V         Frequency       50/60 H         Voltage       200 / 400 V         Rated insulation voltage       500 V         Rated insulation voltage       500 V         Rated insulation voltage       500 V         Rated current       25 /         Rated current       25 /         Rated service breaking capacity Ics AC according IEC 60898-1       6 k/         min/maxi threshold value of the AC thermal operation       1.13 / 1.45 In         Magnetic regulating current       3 / 5 In         min/maxi threshold value of the DC magnetic operation       4 / 7 In         min/maxi threshold value of the DC thermal operation       1.13 / 1.45 In         Breaking capacity 0 1 pole for IT 400V NF       3 k/         60947-2       3 k/  | Number of modules  | 3                |
| devices     Aligned termina       Bottom connection alignement for modular<br>devices     Aligned termina       Main electrical features     Aligned termina       Rated short circuit breaking capacity Icn AC<br>according IEC60898-1     6 k/<br>according IEC60898-1       Rated operational voltage Ue     230 / 400 N       Frequency     50/60 H       Voltage     200 N       Rated insulation voltage     500 N       Rated insulation voltage     400 N       Electric current     25 /<br>Rated service breaking capacity Ics AC<br>according IEC 60898-1       Rated service breaking capacity Ics AC<br>according IEC 60898-1     6 k/<br>nin/maxi threshold value of the AC thermal<br>operation       Minumaxi threshold value of the AC thermal<br>operation     1.13 / 1.45 II       Magnetic regulating currrent     3 / 5 II       min/maxi threshold value of the DC<br>magnetic operation     4 / 7 II       min/maxi threshold value of the DC thermal<br>operation     1.13 / 1.45 II       Breaking capacity on 1 pole for IT 400V NF<br>60947-2     3 k/  | Connectivity   |                  |
| devices       Aligned termina         Main electrical features       Rated short circuit breaking capacity Icn AC according IEC60898-1       6 k/         Rated operational voltage Ue       230 / 400 V       7 k/         Frequency       50/60 H       7 k/         Voltage       200 / 400 V       7 k/         Rated insulation voltage       500 V       7 k/         Rated insulation voltage       500 V       7 k/         Rated insulation voltage       500 V       7 k/         Rated impulse withstand voltage       4000 V       7 k/         Electric current       25 /       7 k/         Rated current       25 /       7 k/         Rated service breaking capacity Ics AC according IEC 60898-1       6 k/         operation       1.13 / 1.45 Ir       1         Magnetic regulating current       3 / 5 Ir       1         min/maxi threshold value of the DC magnetic operation       4 / 7 Ir       1         min/maxi threshold value of the DC thermal operation       1.13 / 1.45 Ir       1         Breaking capacity on 1 pole for IT 400V NF 60/       3 k/       1       1  | Top connection alignement for modular<br>devices                     | Aligned terminal |
| Rated short circuit breaking capacity Icn AC       6 k/         according IEC60898-1       6 k/         Rated operational voltage Ue       230 / 400 \         Frequency       50/60 H         Voltage       500 \         Rated insulation voltage       500 \         Rated insulation voltage       4000 \         Electric current       25 /         Rated current       25 /         Rated service breaking capacity Ics AC according IEC 60898-1       6 k/         min/maxi threshold value of the AC thermal operation       1.13 / 1.45 In         Magnetic regulating current       3 / 5 In         min/maxi threshold value of the DC magnetic operation       4 / 7 In         min/maxi threshold value of the DC thermal operation       1.13 / 1.45 In         Breaking capacity on 1 pole for IT 400V NF 60947-2       3 k/   | Bottom connection alignement for modular<br>devices                  | Aligned termina  |
| according IEC60898-1 6 k/<br>Rated operational voltage Ue 230 / 400 V<br>Frequency 50/60 H:<br>Voltage<br>Rated insulation voltage 500 V<br>Rated insulation voltage 4000 V<br>Electric current 250 /<br>Rated current 250 /<br>Rated service breaking capacity Ics AC<br>according IEC 60898-1 6 k/<br>min/maxi threshold value of the AC thermal<br>operation 1.13 / 1.45 II<br>Magnetic regulating current 3 / 5 II<br>min/maxi threshold value of the DC<br>magnetic operation 4 / 7 II<br>min/maxi threshold value of the DC thermal<br>operation 1.13 / 1.45 II<br>Breaking capacity on 1 pole for IT 400V NF<br>60947-2 3 k/  | Main electrical features   |                  |
| Frequency       50/60 H         Voltage       8         Rated insulation voltage       500 N         Rated impulse withstand voltage       4000 N         Electric current       4000 N         Rated current       25 /         Rated service breaking capacity Ics AC according IEC 60898-1       6 k/         min/maxi threshold value of the AC thermal operation       1.13 / 1.45 II         Magnetic regulating current       3 / 5 II         min/maxi threshold value of the DC magnetic operation       4 / 7 II         min/maxi threshold value of the DC thermal operation       1.13 / 1.45 II         Breaking capacity on 1 pole for IT 400V NF 60947-2       3 k/   | Rated short circuit breaking capacity Icn AC<br>according IEC60898-1 | 6 kA             |
| Voltage         Rated insulation voltage       500 M         Rated impulse withstand voltage       4000 M         Electric current       4000 M         Rated current       25 /         Rated service breaking capacity Ics AC according IEC 60898-1       6 k/         min/maxi threshold value of the AC thermal operation       1.13 / 1.45 In         Magnetic regulating currrent       3 / 5 In         min/maxi threshold value of the DC magnetic operation       4 / 7 In         min/maxi threshold value of the DC thermal operation       1.13 / 1.45 In         Breaking capacity on 1 pole for IT 400V NF 60947-2       3 k/  | Rated operational voltage Ue   | 230 / 400 V      |
| Rated insulation voltage       500 N         Rated impulse withstand voltage       4000 N         Electric current       25 /         Rated current       25 /         Rated service breaking capacity Ics AC according IEC 60898-1       6 k/         min/maxi threshold value of the AC thermal operation       1.13 / 1.45 In         Magnetic regulating currrent       3 / 5 In         min/maxi threshold value of the DC magnetic operation       4 / 7 In         min/maxi threshold value of the DC thermal operation       1.13 / 1.45 In         Breaking capacity on 1 pole for IT 400V NF 60947-2       3 k/  | Frequency  | 50/60 Hz         |
| Rated impulse withstand voltage       4000 M         Electric current       25 /         Rated current       25 /         Rated service breaking capacity Ics AC according IEC 60898-1       6 k/         min/maxi threshold value of the AC thermal operation       1.13 / 1.45 In         Magnetic regulating currrent       3 / 5 In         min/maxi threshold value of the DC magnetic operation       4 / 7 In         min/maxi threshold value of the DC thermal operation       1.13 / 1.45 In         Breaking capacity on 1 pole for IT 400V NF 60947-2       3 k/   | Voltage  |                  |
| Electric current       25 /         Rated current       25 /         Rated service breaking capacity Ics AC according IEC 60898-1       6 k/         min/maxi threshold value of the AC thermal operation       1.13 / 1.45 Ir         Magnetic regulating currrent       3 / 5 Ir         min/maxi threshold value of the DC magnetic operation       4 / 7 Ir         min/maxi threshold value of the DC thermal operation       1.13 / 1.45 Ir         Breaking capacity on 1 pole for IT 400V NF       3 k/  | Rated insulation voltage   | 500 V            |
| Rated current       25 /         Rated service breaking capacity Ics AC       6 k/         according IEC 60898-1       6 k/         min/maxi threshold value of the AC thermal operation       1.13 / 1.45 In         Magnetic regulating current       3 / 5 In         min/maxi threshold value of the DC magnetic operation       4 / 7 In         min/maxi threshold value of the DC thermal operation       1.13 / 1.45 In         Breaking capacity on 1 pole for IT 400V NF       3 k/  | Rated impulse withstand voltage                                      | 4000 V           |
| Rated service breaking capacity Ics AC<br>according IEC 60898-1 6 k/<br>min/maxi threshold value of the AC thermal<br>operation 1.13 / 1.45 In<br>Magnetic regulating currrent 3 / 5 In<br>min/maxi threshold value of the DC<br>magnetic operation 4 / 7 In<br>min/maxi threshold value of the DC thermal<br>operation 1.13 / 1.45 In<br>Breaking capacity on 1 pole for IT 400V NF<br>60947-2 3 k/   | Electric current   |                  |
| according IEC 60898-1       6 k/         min/maxi threshold value of the AC thermal operation       1.13 / 1.45 Ir         Magnetic regulating currrent       3 / 5 Ir         min/maxi threshold value of the DC magnetic operation       4 / 7 Ir         min/maxi threshold value of the DC thermal operation       1.13 / 1.45 Ir         Breaking capacity on 1 pole for IT 400V NF       3 k/  | Rated current  | 25 A             |
| operation       1.13 / 1.45 In         Magnetic regulating current       3 / 5 In         min/maxi threshold value of the DC       4 / 7 In         min/maxi threshold value of the DC thermal       4 / 7 In         operation       1.13 / 1.45 In         Breaking capacity on 1 pole for IT 400V NF       3 k/   | Rated service breaking capacity Ics AC<br>according IEC 60898-1      | 6 kA             |
| min/maxi threshold value of the DC<br>magnetic operation 4 / 7 In<br>min/maxi threshold value of the DC thermal<br>operation 1.13 / 1.45 In<br>Breaking capacity on 1 pole for IT 400V NF<br>60947-2 3 k/  | min/maxi threshold value of the AC thermal operation                 | 1.13 / 1.45 In   |
| magnetic operation 4 / 7 In<br>min/maxi threshold value of the DC thermal<br>operation 1.13 / 1.45 In<br>Breaking capacity on 1 pole for IT 400V NF<br>60947-2 3 k/  | Magnetic regulating currrent   | 3 / 5 In         |
| operation 1.13 / 1.45 II<br>Breaking capacity on 1 pole for IT 400V NF<br>60947-2 3 k/   | min/maxi threshold value of the DC<br>magnetic operation             | 4 / 7 In         |
| 60947-2 3 k/   | min/maxi threshold value of the DC thermal operation                 | 1.13 / 1.45 lr   |
|  | Breaking capacity on 1 pole for IT 400V NF<br>60947-2                | 3 kA             |
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| Rated ultimate short-circuit breaking  |  |
|--|--|
| capacity Icu under 415V AC IEC 60947-2 |  |

# Electric current / temperature

| Rating current -25°C | 31.4 A |
|----------------------|--------|
| Rating current -20°C | 30.9 A |
| Rating current -15°C | 30.4 A |
| Rating current -10°C | 29.8 A |
| Rating current -5°C  | 29.3 A |
| Rating current 0°C   | 28.7 A |
| Rating current 5°C   | 28.1 A |
| Rating current 10°C  | 27.5 A |
| Rating current 15°C  | 26.9 A |
| Rating current 20°C  | 26.3 A |
| Rating current 25°C  | 25.7 A |
| Rating current 30°C  | 25 A   |
| Rating current 35°C  | 24.3 A |
| Rating current 40°C  | 23.6 A |
| Rating current 45°C  | 22.9 A |
| Rating current 50°C  | 22.2 A |
| Rating current 55°C  | 21.4 A |
| Rating current 60°C  | 20.7 A |
| Rating current 65°C  | 20 A   |
| Rating current 70°C  | 19.2 A |
|                      |        |

#### **Current correction factors**

| Correction factor of rating current for 2 devices placed side-by-side          | 1     |
|--|-------|
| Correction factor of rating current for 3 devices placed side-by-side          | 0.95  |
| Correction factor of rating current for 4 and<br>5 devices placed side-by-side | 0.9   |
| Correction factor of rating current for 6<br>devices placed side-by-side       | 0.85  |
| Correction factor of magnetic tripping with<br>100 Hz                          | 1.1   |
| Correction factor of magnetic tripping with<br>200 Hz                          | 1.2   |
| Correction factor of magnetic tripping with<br>400 Hz                          | 1.5   |
| Correction factor of magnetic tripping with<br>60 Hz                           | 1     |
| Dimensions   |       |
| Depth of installed product   | 70 mm |

| Depth of installed product  | 70 mm   |
|-----------------------------|---------|
| Height of installed product | 83 mm   |
| Width of installed product  | 52.5 mm |

## Frequency

Frequency

50 to 60 Hz

10 kA

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Power
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| Total power loss under IN   | 9.5 W            |
|---|------------------|
| Power loss per pole at In   | 3.25 W           |
| Endurance   |                  |
| Electric endurance in number of cycles  | 4000             |
| Number of mechanical operations   | 20000            |
| Installation, mounting  |                  |
| Type of top connection for modular devices  | with screw       |
| Tightening torque   | 2,8Nm            |
| Type of top rail clip for modular devices   | NA               |
| Type of bottom rail clip for modular devices  | metallic         |
| Type of Bottom Connection for modular<br>devices                                    | Blconnect        |
| Top removability for modular devices  | No               |
| Bottom removability for modular devices   | No               |
| Connection  |                  |
| Connection cross-sect. flexible conductor   | 1 / 25mm²        |
| Connection cross-sect. rigid cable  | 1 / 35mm²        |
| Connection cross-section of input and<br>output with screws, for massive conductors | 1 / 35 mm²       |
| Connection cross section of access and exit with screws, for flexible conductor     | 1 / 25 mm²       |
| Type of connection  | with screw       |
| Standards   |                  |
| Standard text   | EN 60898-1       |
| Safety  |                  |
| REACH conform   | No               |
| RoHS conform  | Yes              |
| Halogen free  | No               |
| Use conditions  |                  |
| Operating temperature   | -2570 °C         |
| Degree of pollution according to IEC 60664 /<br>IEC 60947-2                         | 2                |
| Class of energy limitation I <sup>2</sup> t   | 3                |
| Altitude  | 2000 m           |
| Air humidity protection   | for all climates |
| Storage/transport temperature   | -2580 °C         |
| Identification  |                  |

Aesthetic for B.G. Protection devices

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