



HMF399T

**MCB 3P 10kA C-80A 4.5M**

**Technical Features**

**Architecture**

|              |    |
|--------------|----|
| Type of pole | 3P |
| Curve        | C  |

**Voltage**

|   |             |
|---|-------------|
| Rated operational voltage $U_e$           | 400 - 415 V |
| Type voltage supply                       | AC          |
| Rated insulation voltage $U_i$            | 500 V       |
| Rated impulse withstand voltage $U_{imp}$ | 6000 V      |

**Frequency**

|           |            |
|-----------|------------|
| Frequency | 50 - 60 Hz |
|-----------|------------|

**Installation, mounting**

|   |                |
|---|----------------|
| Nominal tightening torque                     | 3.5 - 5.0 Nm   |
| Type of top connection for modular devices    | Screw terminal |
| Type of bottom connection for modular devices | Screw terminal |

**Electric current**

|  |       |
|--|-------|
| Rated current  | 80 A  |
| Rated short-circuit breaking capacity $I_{cn}$ under 230 V AC according to IEC 60898-1 | 10 kA |
| Rated ultimate short-circuit breaking capacity $I_{cu}$ under 230 V AC IEC 60947-2     | 10 kA |
| Rated ultimate short-circuit breaking capacity $I_{cu}$ under 400 V AC IEC 60947-2     | 10 kA |

**Main electrical attributes**

|  |       |
|--|-------|
| Rated short-circuit breaking capacity $I_{cn}$ AC according to IEC 60898-1 | 10 kA |
|--|-------|

**Installation, mounting**

|   |                |
|---|----------------|
| Nominal tightening torque down terminal | 3.60 - 3.60 Nm |
| Nominal tightening torque top terminal  | 3.60 - 3.60 Nm |

**Safety**

|                               |      |
|-------------------------------|------|
| Ingress Protection (IP) class | IP20 |
|-------------------------------|------|

**Power**

|                              |         |
|------------------------------|---------|
| Total power loss under $I_N$ | 20.32 W |
|------------------------------|---------|

**Endurance**

|  |       |
|--|-------|
| Electric endurance in number of cycles | 4000  |
| Number of mechanical operations        | 20000 |

**Connection**

|  |                        |
|--|------------------------|
| Cross-section of input and output with screws, for massive conductors  | 1 - 70 mm <sup>2</sup> |
| Cross-section of input and output with screws, for flexible conductors | 1 - 50 mm <sup>2</sup> |
| Cross-section flexible conductor                                       | 50 mm <sup>2</sup>     |
| Cross-section rigid conductor  | 70 mm <sup>2</sup>     |

**Use conditions**

|  |                  |
|--|------------------|
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 3                |
| Air humidity protection                                  | For all climates |
| Operating temperature                                    | -25 - 70 °C      |

**Capacity**

|                   |      |
|-------------------|------|
| Number of modules | 4.50 |
|-------------------|------|

**Connectivity**

|   |                  |
|---|------------------|
| Top connection alignment for modular devices  | Aligned terminal |
| Down connection alignment for modular devices | Aligned terminal |

**Dimensions**

|        |       |
|--------|-------|
| Height | 90 mm |
|--------|-------|

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**Dimensions**

|       |       |
|-------|-------|
| Width | 80 mm |
| Depth | 70 mm |

**Sustainability**

|                 |     |
|-----------------|-----|
| REACH-SVHC free | Yes |
| RoHS conform    | Yes |