



Brand: ABB

SKU: [1SDA066493R1](#)

A1C 125 TMF 80-800 1p F F (AAC080TW-1)

Moulded / Molded Case Circuit Breaker (MCCB) - ABB / SACE (FORMULA series) - A1C 125 TMF 80-800 1p F F - 1-pole (1P1d) - Rated current 80A - Short circuit breaking capacity (Icu) 18kA (240Vac) - Thermal-Magnetic (fixed) (TMF) trip unit - equivalent to AAC080TW-1 / A1C 125 TMF 80-800 1P F F IEC / A1C125TMF808001pFF

Specifications	
Primary brand	ABB
Secondary brand	SACE
Main function	Moulded Case Circuit Breaker (MCCB)
Product series / family name	FORMULA
Sub-range name	A1C 125 complete breakers
Functions	Moulded / Molded Case Circuit Breaker (MCCB)
Poles	1-pole (1P1d)
Rated current	80A
Trip current rating	80 AT
Frame current rating	125 AF
Rated operating voltage (Ue)	415 V
Rated voltage (AC)	415Vac
Rated impulse voltage (Uimp)	6 kV
Rated insulation voltage (Ui)	690 V
Connection type	Ring-lug or bar connections
Ultimate short circuit current breaking capacity (Icu)	18kA (240Vac) 2.5kA (380Vac) 2.5kA (415Vac) 5kA (125Vdc)
Service short circuit current breaking capacity (Ics)	9kA (240Vac) 1.25kA (380Vac) 1.25kA (415Vac)
Service short circuit current breaking capacity as a percentage of Icu (Ics%)	(415Vac) 50 %
Trip unit type	Technology = Thermal-Magnetic (fixed) Series = TMF Display = none
Protection functions	Thermal protection (Overload) Magnetic protection (Short-circuit)

Specifications	
<b>Protection settings</b>	Over-current -- fixed at 80A Short-circuit pickup current -- fixed at 800A
<b>Operating mode</b>	Toggle
<b>Dimensions</b>	H130mm x W25.4mm x D60mm
<b>Electrical durability (with load)</b>	1500 operations
<b>Mechanical durability (at no load)</b>	8500 operations
<b>Power dissipation/losses</b>	(1-pole) 9 W
<b>Order code / Manufacturer SKU</b>	A1C 125 TMF 80-800 1p F F AAC080TW-1
<b>Manufacturer product status</b>	Commercialized
<b>Equivalent to</b>	AAC080TW-1 A1C 125 TMF 80-800 1P F F IEC A1C125TMF808001pFF
<b>EAN code</b>	8015644003968
<b>UNSPSC code</b>	39121616
<b>UPC code</b>	804325579322
<b>Compliant with standard(s)</b>	IEC 60947-2 EC directive "Low Voltage Directives" (LVD) no. 2006/95/CE (in replacement of 73/23/ CEE and subsequent amendments) EC directive "Electromagnetic Compatibility Directive" (EMC) no. 89/336 EEC