



Brand: ABB

SKU: [1SDA066486R1](#)

A1C 125 TMF 20-400 1p F F (AAC020TW-1)

Moulded / Molded Case Circuit Breaker (MCCB) - ABB / SACE (FORMULA series) - A1C 125 TMF 20-400 1p F F - 1-pole (1P1d) - Rated current 20A - Short circuit breaking capacity (Icu) 18kA (240Vac) - Thermal-Magnetic (fixed) (TMF) trip unit - equivalent to AAC020TW-1 / A1C125TMF204001pFF

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	20A
Trip current rating	20 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)

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Specifications	
<b>Protection settings</b>	Over-current -- fixed at 20A Short-circuit pickup current -- fixed at 400A
<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) 3 W
<b>Order code / Manufacturer SKU</b>	A1C 125 TMF 20-400 1p F F AAC020TW-1
<b>Manufacturer product status</b>	Commercialized
<b>Equivalent to</b>	AAC020TW-1 A1C125TMF204001pFF
<b>EAN code</b>	8015644692940
<b>UNSPSC code</b>	39121616
<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