

# Product data sheet

Specifications

SQUARE D



## PowerPacT multistandard - J-Frame - 175 A - 100 KA - Therm-Mag trip unit

NJJF36175TW

! Discontinued

! Discontinued on: Jan 8, 2021

! End-of-service on: Jan 22, 2021

### Main

Range of product	PowerPact multistandard
Range	PowerPact
Product name	J-Frame
Device short name	J-Frame
Product or component type	Circuit breaker
Device application	Distribution

### Complementary

Poles description	3P
Control type	Toggle
Mounting mode	Unit mount
Mounting support	DIN rail Flush Backplate
Electrical connection	Terminal nut, line side Terminal nut, load side
[In] rated current	175 A 104 °F (40 °C)
[Ui] rated insulation voltage	750 V AC 50/60 Hz IEC 60947-2
[Uimp] rated impulse withstand voltage	8 kV IEC 60947-2
[Ue] rated operational voltage	525 V AC 50/60 Hz IEC 60947-2 690 V AC 50/60 Hz IEC 947-2 600 V AC 50/60 Hz UL 489
Breaking capacity code	JJ
Suitability for isolation	Yes
Utilisation category	Category A
Mechanical durability	5000 cycles
Electrical durability	1000 cycles
Connection pitch	1.8 in (45 mm)
Local signalling	ON/OFF indication
Contact position indicator	Yes
Trip unit name	TM
Trip unit technology	Thermal-magnetic

<b>Trip unit protection functions</b>	Basic protection
<b>Trip unit rating</b>	175 A
<b>Display type</b>	3 LEDs
<b>Breaking capacity</b>	Icu 100 kA 220/240 V - AC IEC 947-2 Icu 65 kA 380/415 V - AC IEC 947-2 Icu 65 kA 440/480 V - AC IEC 947-2 Icu 25 kA 500/525 V - AC IEC 947-2 100 kA 240 V - AC UL 489 65 kA 480 V - AC UL 489 25 kA 600 V - AC UL 489
<b>[Ics] rated service breaking capacity</b>	Ics 100 kA 220/240 V - AC IEC 947-2 Ics 65 kA 380/415 V - AC IEC 947-2 Ics 65 kA 440/480 V - AC IEC 947-2 Ics 25 kA 500/525 V - AC IEC 947-2
<b>Long time pick-up adjustment type Ir</b>	Fixed
<b>Long time pick-up adjustment range</b>	1 In
<b>Short-time pick-up adjustment type Isd</b>	Adjustable
<b>[Isd] short-time pick-up adjustment range</b>	5...10 x In
<b>Overvoltage category</b>	II
<b>Provision for padlocking</b>	Non padlockable
<b>Height</b>	7.5 in (191 mm)
<b>Width</b>	4.09 in (104 mm)
<b>Depth</b>	3.4 in (86 mm)
<b>Standards</b>	CSA C22.2 No 5 W-C-375B/GEN NMX J-266 UL 489 NEMA AB1 IEC 60947-2
<b>Product certifications</b>	CCC CE
<b>Net weight</b>	5.3 lb(US) (2.4 kg)
<b>Tightening torque</b>	221.3 lbf.in (25 N.m) 0.1...0.3 in <sup>2</sup> (95...185 mm <sup>2</sup> ) AWG 3/0...350 kcmil)

## Environment

<b>IP degree of protection</b>	IP40 conforming to IEC 60529
<b>IK degree of protection</b>	IK07 conforming to IEC 62262
<b>Pollution degree</b>	3 IEC 60947-1 3 IEC 60664-1
<b>Ambient air temperature for operation</b>	104 °F (40 °C)
<b>Ambient air temperature for storage</b>	-58...185 °F (-50...85 °C)

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	8.750 in (22.225 cm)
<b>Package 1 Width</b>	10.750 in (27.305 cm)
<b>Package 1 Length</b>	19.50 in (49.53 cm)

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<b>Package 1 Weight</b>	5.004 lb(US) (2.27 kg)
<b>Unit Type of Package 2</b>	S04
<b>Number of Units in Package 2</b>	6
<b>Package 2 Height</b>	11.8 in (30.0 cm)
<b>Package 2 Width</b>	15.7 in (40.0 cm)
<b>Package 2 Length</b>	23.6 in (60.0 cm)
<b>Package 2 Weight</b>	31.716 lb(US) (14.386 kg)

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## **Contractual warranty**

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<b>Warranty (in months)</b>	18
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## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



### Environmental footprint

Total lifecycle Carbon footprint	554 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	17 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.7 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	533 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	4 kg CO2 eq.
Environmental Disclosure	<a href="#">Product Environmental Profile</a>

## Use Better



### Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
SCIP Number	51395289-2490-4e49-b5d9-78d9d14cd74f
EU RoHS Directive	<a href="#">Compliant By Exemption</a>
REACH Regulation	<a href="#">Reference contains Substances of Very High Concern above the threshold</a>
PVC free	Yes

## Use Longer




### Lifetime extension

Repair	No
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## Use Again



### Repack and remanufacture

Recyclability potential, in %	49
Circularity Profile	<a href="#">End of Life Information</a>
Take-back	Nej
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins