

# Product data sheet

Specifications



## PowerPact multistandard - H-Frame - 40 A - 25 KA - Therm-Mag trip unit

NHDF36040TW

### Main

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

### Complementary

Poles description	3P
Control type	Toggle
Mounting mode	Unit mount
Mounting support	Backplate Flush DIN rail
Electrical connection	Terminal nut, line side Terminal nut, load side
[In] rated current	40 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	HD
Suitability for isolation	Yes
Utilisation category	Category A
Mechanical durability	4000 cycles
Electrical durability	4000 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
Trip unit protection functions	Basic protection
Trip unit rating	40 A

<b>Display type</b>	3 LEDs
<b>Breaking capacity</b>	lcu 25 kA 220/240 V - AC IEC 947-2 lcu 18 kA 380/415 V - AC IEC 947-2 lcu 18 kA 440/480 V - AC IEC 947-2 lcu 14 kA 500/525 V - AC IEC 947-2 25 kA 240 V - AC UL 489 18 kA 480 V - AC UL 489 14 kA 600 V - AC UL 489
<b>[lcs] rated service breaking capacity</b>	lcs 25 kA 220/240 V - AC IEC 947-2 lcs 18 kA 380/415 V - AC IEC 947-2 lcs 18 kA 440/480 V - AC IEC 947-2 lcs 14 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>	Fixed
<b>[Isd] short-time pick-up adjustment range</b>	850 A
<b>Overvoltage category</b>	II
<b>Provision for padlocking</b>	Non padlockable
<b>Height</b>	6.4 in (163 mm)
<b>Width</b>	4.09 in (104 mm)
<b>Depth</b>	3.4 in (86 mm)
<b>Standards</b>	IEC 60947-2 CSA C22.2 No 5 W-C-375B/GEN UL 489 NMX J-266 NEMA AB1
<b>Product certifications</b>	CE CCC
<b>Net weight</b>	4.9 lb(US) (2.2 kg)

## 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>	5.709 in (14.500 cm)
<b>Package 1 Width</b>	7.480 in (19.000 cm)
<b>Package 1 Length</b>	8.661 in (22.000 cm)
<b>Package 1 Weight</b>	4.220 lb(US) (1.914 kg)
<b>Unit Type of Package 2</b>	S04
<b>Number of Units in Package 2</b>	6

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<b>Package 2 Height</b>	11.811 in (30.000 cm)
<b>Package 2 Width</b>	15.748 in (40.000 cm)
<b>Package 2 Length</b>	23.622 in (60.000 cm)
<b>Package 2 Weight</b>	27.007 lb(US) (12.250 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	289 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	9 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.4 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	276 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	3 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	Yes
SCIP Number	F6740abd-d7a0-42b0-ba51-4931bf4d8226
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 %	45
Circularity Profile	<a href="#">End of Life Information</a>
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins