

# Product data sheet

Specifications



## PowerPact multistandard - H-Frame - 50 A - 65 KA - Therm-Mag trip unit

NHGF36050TW

### 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	50 A at 40 °C
[Ui] rated insulation voltage	750 V AC 50/60 Hz conforming to IEC 60947-2
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947-2
[Ue] rated operational voltage	525 V AC 50/60 Hz conforming to IEC 60947-2 690 V AC 50/60 Hz conforming to IEC 947-2 600 V AC 50/60 Hz conforming to UL 489
Breaking capacity code	HG
Suitability for isolation	Yes
Utilisation category	Category A
Mechanical durability	4000 cycles
Electrical durability	4000 cycles
Connection pitch	45 mm
Local signalling	ON/OFF indication
Contact position indicator	Yes
Trip unit name	TM

<b>Trip unit technology</b>	Thermal-magnetic
<b>Trip unit protection functions</b>	Basic protection
<b>Trip unit rating</b>	50 A
<b>Display type</b>	3 LEDs
<b>Breaking capacity</b>	Icu: 65 kA at 220/240 V - AC conforming to IEC 947-2 Icu: 35 kA at 380/415 V - AC conforming to IEC 947-2 Icu: 35 kA at 440/480 V - AC conforming to IEC 947-2 Icu: 18 kA at 500/525 V - AC conforming to IEC 947-2 65 kA at 240 V - AC conforming to UL 489 35 kA at 480 V - AC conforming to UL 489 18 kA at 600 V - AC conforming to UL 489
<b>[Ics] rated service breaking capacity</b>	Ics: 65 kA at 220/240 V - AC conforming to IEC 947-2 Ics: 35 kA at 380/415 V - AC conforming to IEC 947-2 Ics: 35 kA at 440/480 V - AC conforming to IEC 947-2 Ics: 18 kA at 500/525 V - AC conforming to 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>	163 mm
<b>Width</b>	104 mm
<b>Depth</b>	86 mm
<b>Standards</b>	NMX J-266 W-C-375B/GEN UL 489 NEMA AB1 CSA C22.2 No 5 IEC 60947-2
<b>Product certifications</b>	CCC CE
<b>Net weight</b>	2.2 kg
<b>Tightening torque</b>	5 N.m for 2.5...95 mm <sup>2</sup> (AWG 14...AWG 3/0)

## 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 conforming to IEC 60947-1 3 conforming to IEC 60664-1
<b>Ambient air temperature for operation</b>	40 °C
<b>Ambient air temperature for storage</b>	-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>	13.018 cm
<b>Package 1 Width</b>	18.415 cm
<b>Package 1 Length</b>	21.433 cm

Package 1 Weight	1.908 kg
Unit Type of Package 2	S04
Number of Units in Package 2	6
Package 2 Height	30.0 cm
Package 2 Width	40.0 cm
Package 2 Length	60.0 cm
Package 2 Weight	12.214 kg

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS declaration</a> Product out of China RoHS scope. Substance declaration for your information
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes
California proposition 65	WARNING: This product can expose you to chemicals including: DINP, which is known to the State of California to cause cancer, and DIDP, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

## Recommended replacement(s)