Product data sheet Characteristics

NHDF36050TW

PowerPact multistandard - H-Frame - 50 A - 25 KA - Therm-Mag trip unit



Main		lons
Range of product	PowerPact multistandard	plicati
Range	PowerPact	er ap
Product name	H-Frame	n o s
Device short name	H-Frame	sbeci
Product or component type	Circuit breaker	S for
Device application	Distribution	roduct
		these p
Complementary		/ of th
Poles description	3P	abilit,

Complementary

Poles description 3P Control type Toggle Mounting mode Unit mount Mounting support Flush DIN rail Backplate 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 at 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 at 50/60 Hz conforming to IEC 60947-2 [Ue] rated operational voltage 525 V AC at 50/60 Hz conforming to IEC 60947-2 [Ue] rated operational voltage 525 V AC at 50/60 Hz conforming to IEC 60947-2 690 V AC at 50/60 Hz conforming to IEC 947-2 690 V AC at 50/60 Hz conforming to UL 489 Breaking capacity code HD 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 Trip unit technology Thermal-magnetic Trip unit technology Thermal-magnetic Trip unit protection functions Basic protection	o compromising y		
Mounting mode Unit mount Mounting support Flush DIN rail Backplate 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 at 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 at 50/60 Hz conforming to IEC 60947-2 goo V AC at 50/60 Hz conforming to IEC 60947-2 690 V AC at 50/60 Hz conforming to UL 489 Breaking capacity code HD 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 Trip unit technology Thermal-magnetic	Poles description	3P	abilit
Mounting support Flush DIN rail Backplate Electrical connection Terminal nut line side Terminal nut load side [In] rated current 50 A at 40 °C [Ui] rated insulation voltage T50 V AC at 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 at 50/60 Hz conforming to IEC 60947-2 690 V AC at 50/60 Hz conforming to IEC 947-2 690 V AC at 50/60 Hz conforming to UL 489 Breaking capacity code HD Suitability for isolation Yes Utilisation category Category A Mechanical durability 4000 cycles Electrical durability 4000 cycles Electrical durability 4000 cycles Connection pitch 45 mm Local signalling ON/OFF indication Contact position indicator Yes Trip unit name TM Trip unit technology Thermal-magnetic	Control type	Toggle	or reliability
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690 V AC at 50/60 Hz conforming to IEC 947-2 600 V AC at 50/60 Hz conforming to UL 489 Breaking capacity code HD 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 Trip unit technology Thermal-magnetic	[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947-2	not
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 Trip unit technology Thermal-magnetic	[Ue] rated operational voltage	690 V AC at 50/60 Hz conforming to IEC 947-2	substitute for and is
Utilisation category Mechanical durability 4000 cycles Electrical durability 4000 cycles Connection pitch 45 mm Local signalling ON/OFF indication Contact position indicator Trip unit name TM Trip unit technology Category A 4000 cycles Connection 45 mm TM Thermal-magnetic	Breaking capacity code	HD	ubstit
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 Trip unit technology Thermal-magnetic	Suitability for isolation	Yes	as a si
Electrical durability 4000 cycles Connection pitch 45 mm Local signalling ON/OFF indication Contact position indicator Yes Trip unit name TM Trip unit technology Thermal-magnetic	Utilisation category	Category A	ded a
Connection pitch 45 mm Local signalling ON/OFF indication Contact position indicator Yes Trip unit name TM Trip unit technology Thermal-magnetic	Mechanical durability	4000 cycles	not intended
Local signalling ON/OFF indication Contact position indicator Yes Trip unit name TM Trip unit technology Thermal-magnetic	Electrical durability	4000 cycles	is not
Contact position indicator Yes Trip unit name TM Trip unit technology Thermal-magnetic	Connection pitch	45 mm	
Trip unit name TM Trip unit technology Thermal-magnetic	Local signalling	ON/OFF indication	nenta
Trip unit technology Thermal-magnetic	Contact position indicator	Yes	documentation
	Trip unit name	TM	
Trip unit protection functions Basic protection	Trip unit technology	Thermal-magnetic	mer:
	Trip unit protection functions	Basic protection	isclaimer: This

Trip unit rating	50 A
Display type	3 LEDs
Breaking capacity	25 kA at 240 V - AC conforming to UL 489 18 kA at 480 V - AC conforming to UL 489 14 kA at 600 V - AC conforming to UL 489 Icu: 25 kA at 220/240 V - AC conforming to IEC 947-2 Icu: 18 kA at 380/415 V - AC conforming to IEC 947-2 Icu: 18 kA at 440/480 V - AC conforming to IEC 947-2 Icu: 14 kA at 500/525 V - AC conforming to IEC 947-2
[lcs] rated service breaking capacity	Ics: 25 kA at 220/240 V - AC conforming to IEC 947-2 Ics: 18 kA at 380/415 V - AC conforming to IEC 947-2 Ics: 18 kA at 440/480 V - AC conforming to IEC 947-2 Ics: 14 kA at 500/525 V - AC conforming to IEC 947-2
Long time pick-up adjustment type Ir	Fixed
Long time pick-up adjustment range	1 ln
Short-time pick-up adjustment type Isd	Fixed
[Isd] short-time pick-up adjustment range	850 A
Overvoltage category	II
Provision for padlocking	Non padlockable
Height	163 mm
Width	104 mm
Depth	86 mm
Standards	CSA C22.2 No 5 UL 489 W-C-375B/GEN NMX J-266 IEC 60947-2 NEMA AB1
Product certifications	CCC CE
Product weight	2.2 kg

Environment

IP degree of protection	IP40 conforming to IEC 60529
IK degree of protection	IK07 conforming to IEC 62262
Pollution degree	3 conforming to IEC 60664-1 3 conforming to IEC 60947-1
Ambient air temperature for operation	40 °C
Ambient air temperature for storage	-5085 °C