

TCP 6A - Thermal device circuit breaker



0712275

<https://www.phoenixcontact.com/au/products/0712275>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



1-channel thermal device circuit breaker for protecting loads at 250 V AC / 72 V DC in the event of an overload. For installation on fuse terminal blocks and interfaces for flat plug-in fuse of type C according to standard ISO 8820-3. With fixed nominal current: 6 A

Your advantages

- Fast, replacement part-free recommissioning after an event with the reconnection options
- Easy to retrofit in existing systems with vehicle flat-type fuses with identical pin connector pattern
- System disconnection for maintenance actions via the integrated device switch

Commercial data

Item number	0712275
Packing unit	20 pc
Minimum order quantity	1 pc
Sales key	CLA111
Product key	CLA111
Catalog page	Page 401 (C-4-2019)
GTIN	4017918848392
Weight per piece (including packing)	10.87 g
Weight per piece (excluding packing)	10.809 g
Customs tariff number	85362010
Country of origin	ID

TCP 6A - Thermal device circuit breaker



0712275

<https://www.phoenixcontact.com/au/products/0712275>

Technical data

Notes

General	When mounted in rows, the nominal device current can be limited to just 80% or must be overdimensioned accordingly.
---------	---

Product properties

Product type	Thermal device circuit breakers
Type	Male
Number of positions	1
No. of channels	1

Insulation characteristics

Overvoltage category	II
Degree of pollution	2

Electrical properties

Fuse type	Automatic device
Maximum power dissipation for nominal condition	≤ 0.9 VA
Fuse	Slow-blow

General

Rated voltage	250 V AC
	65 V DC
	250 V AC (AC according to UL 1077)
	72 V DC (DC according to UL 1077)
Rated current I_N	6 A
Rated surge voltage	2.5 kV
Insulation resistance R_{iso}	> 100 M Ω (500 V DC)
Tripping method	T (thermal)
Device resistance	0.05 Ω
Rated short-circuit switching capacity I_{cn}	48 A (250 V AC / 65 V DC)
	60 A (30 V DC)
Short-circuit switching capacity	2000 A (250 V AC / UL 1077)
	2000 A (72 V DC / UL 1077)
Dielectric strength	3000 V AC (Actuation area)
	1500 V AC (Installation area)
Switching cycles, max.	6000 (At $1 \times I_N$, low-induction)
	3000 (At $1 \times I_N$, inductive)
	500 (At $2 \times I_N$, inductive)
Contact switching type	Type C in accordance with ISO 8820-3

Connection data

Nominal current	6 A
Nominal voltage	250 V AC

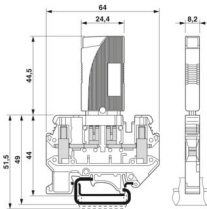
TCP 6A - Thermal device circuit breaker

0712275

<https://www.phoenixcontact.com/au/products/0712275>

	65 V DC
Connection method	pluggable

Dimensions

Dimensional drawing	
Width	8.2 mm
Height	24.4 mm
Height NS 35/7,5	55 mm
Depth	44.5 mm

Material specifications

Color	black (RAL 9005)
Flammability rating according to UL 94	V-0
Insulating material group	IIIb
Insulating material	PPS

Mechanical properties

Mechanical data	
Open side panel	No

Environmental and real-life conditions

Ambient conditions	
Degree of protection	IP40 (Actuation area)
Ambient temperature (operation)	-20 °C ... 60 °C
Altitude	≤ 4000 m (amsl)
Humidity test	240 h, 95 % RH, 40 °C

Standards and regulations

Standards/specifications	EN 60934
--------------------------	----------

Mounting

Mounting type	on base element
---------------	-----------------

TCP 6A - Thermal device circuit breaker

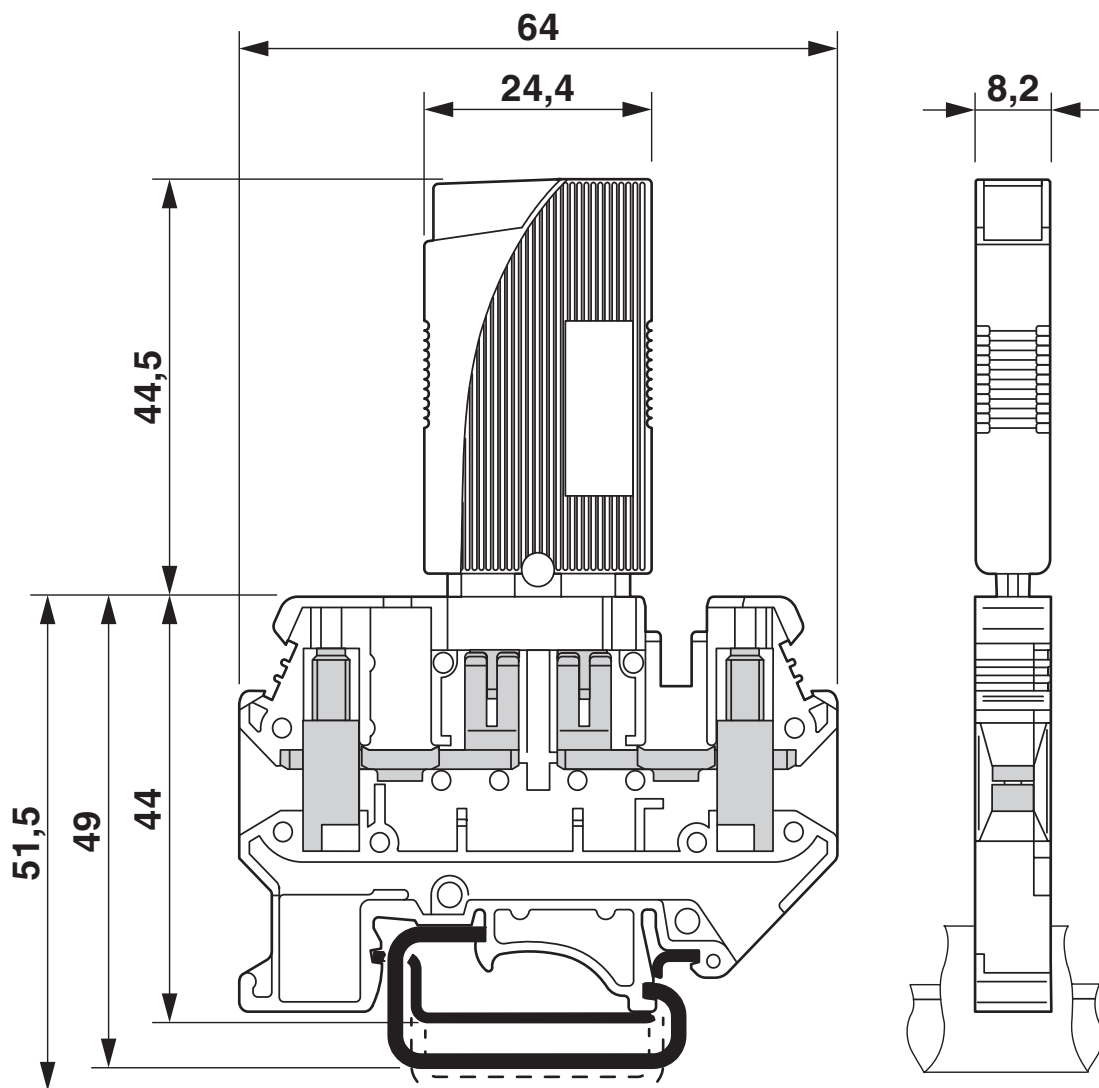
0712275

<https://www.phoenixcontact.com/au/products/0712275>



Drawings

Dimensional drawing



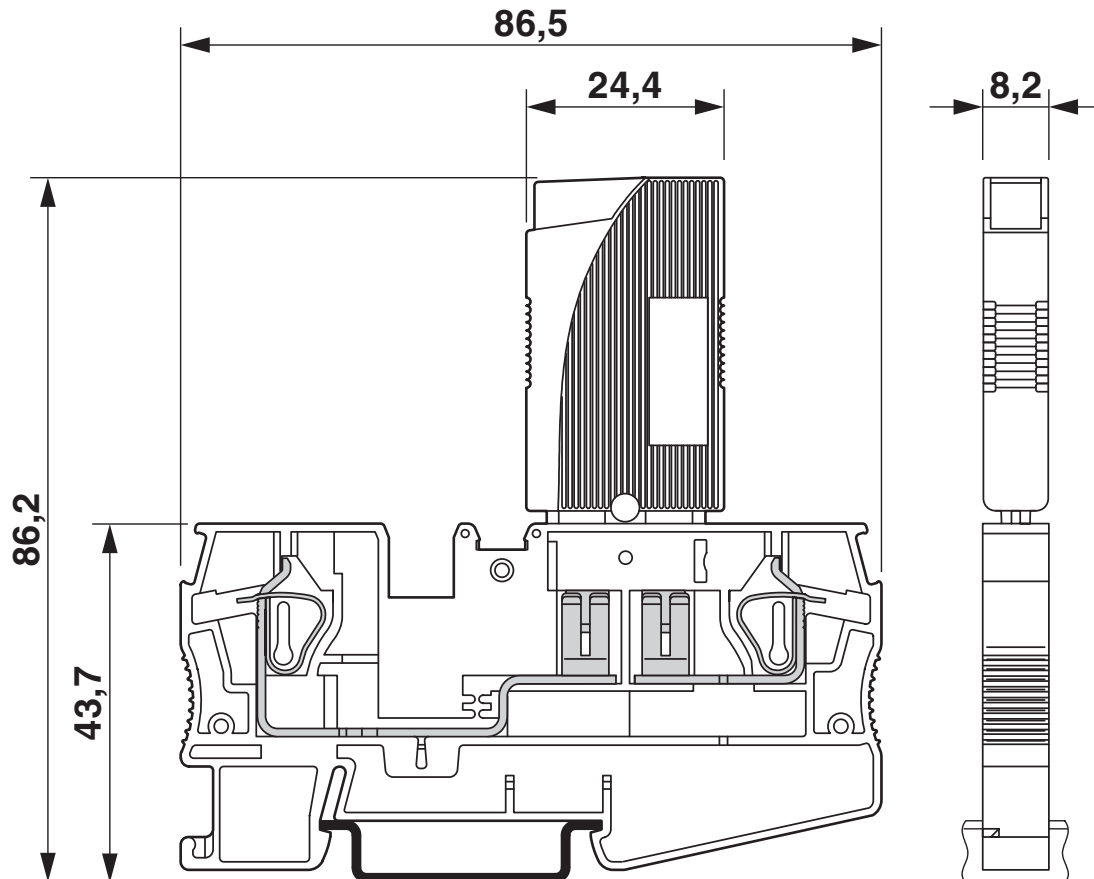
TCP 6A - Thermal device circuit breaker

0712275

<https://www.phoenixcontact.com/au/products/0712275>



Dimensional drawing



TCP 6A - Thermal device circuit breaker

0712275

<https://www.phoenixcontact.com/au/products/0712275>

Product drawing



The figure shows the product with the base element PT 6-FSI/C-LED 24 (Item No.: 3212172).

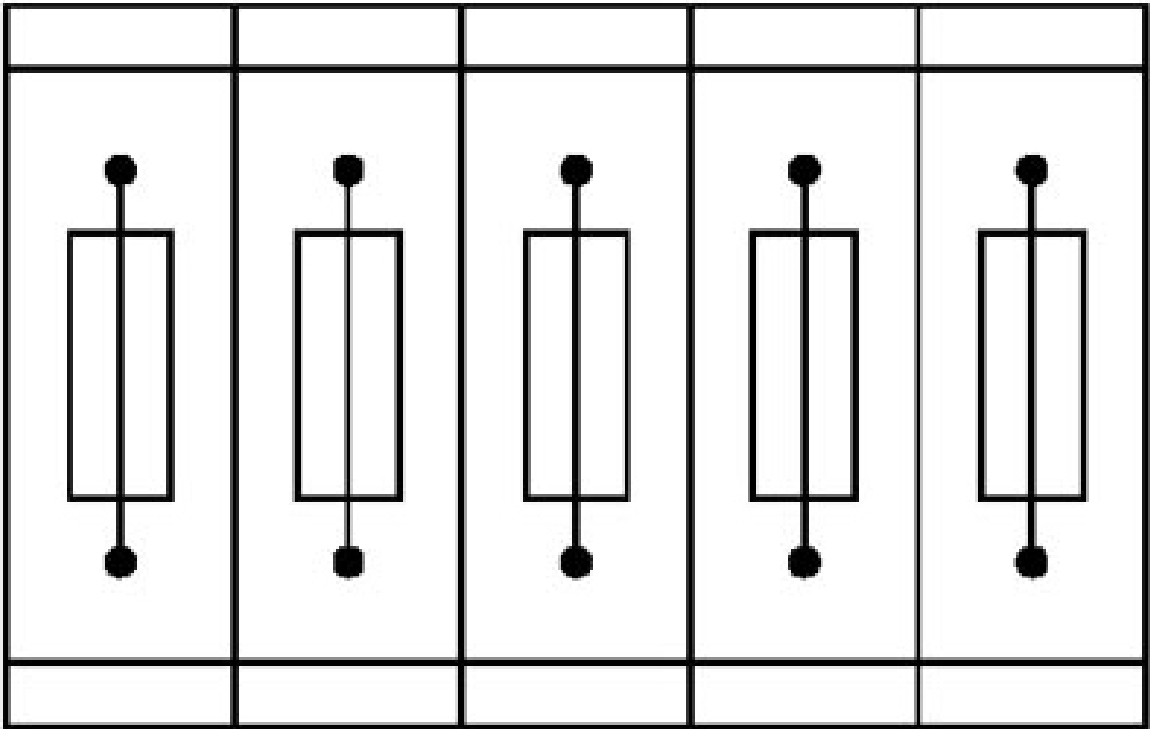
TCP 6A - Thermal device circuit breaker



0712275

<https://www.phoenixcontact.com/au/products/0712275>

Application drawing



Fuse terminal blocks in interconnected arrangement,
block consisting of 5 fuse terminal blocks

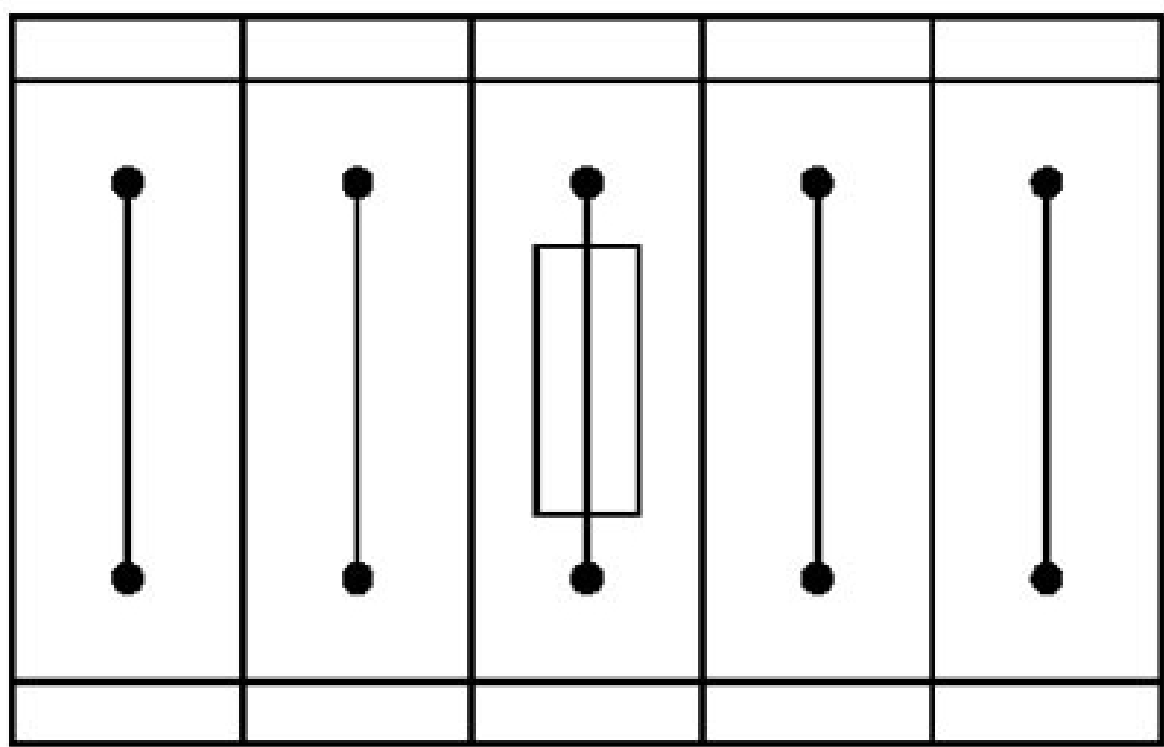
TCP 6A - Thermal device circuit breaker



0712275

<https://www.phoenixcontact.com/au/products/0712275>

Application drawing



Fuse terminal block in single arrangement,
block consisting of one fuse terminal block and 4 feed-through terminal blocks

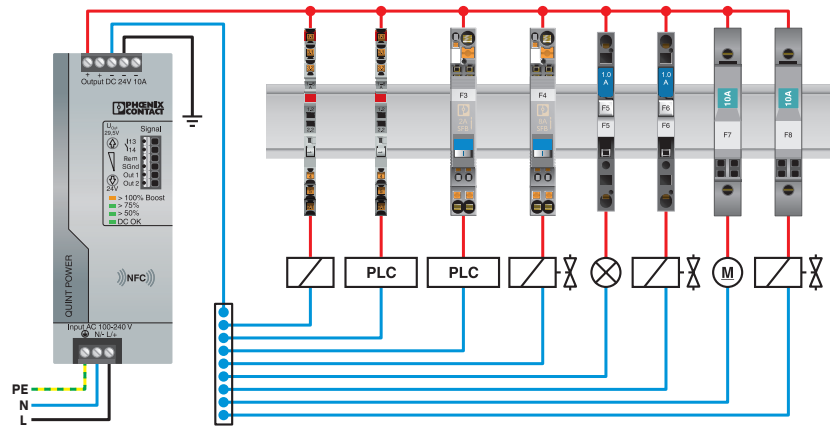
TCP 6A - Thermal device circuit breaker

0712275

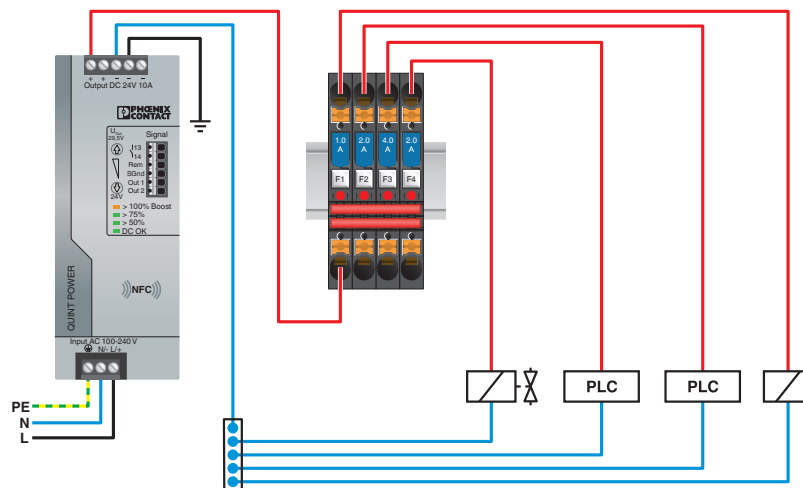
<https://www.phoenixcontact.com/au/products/0712275>

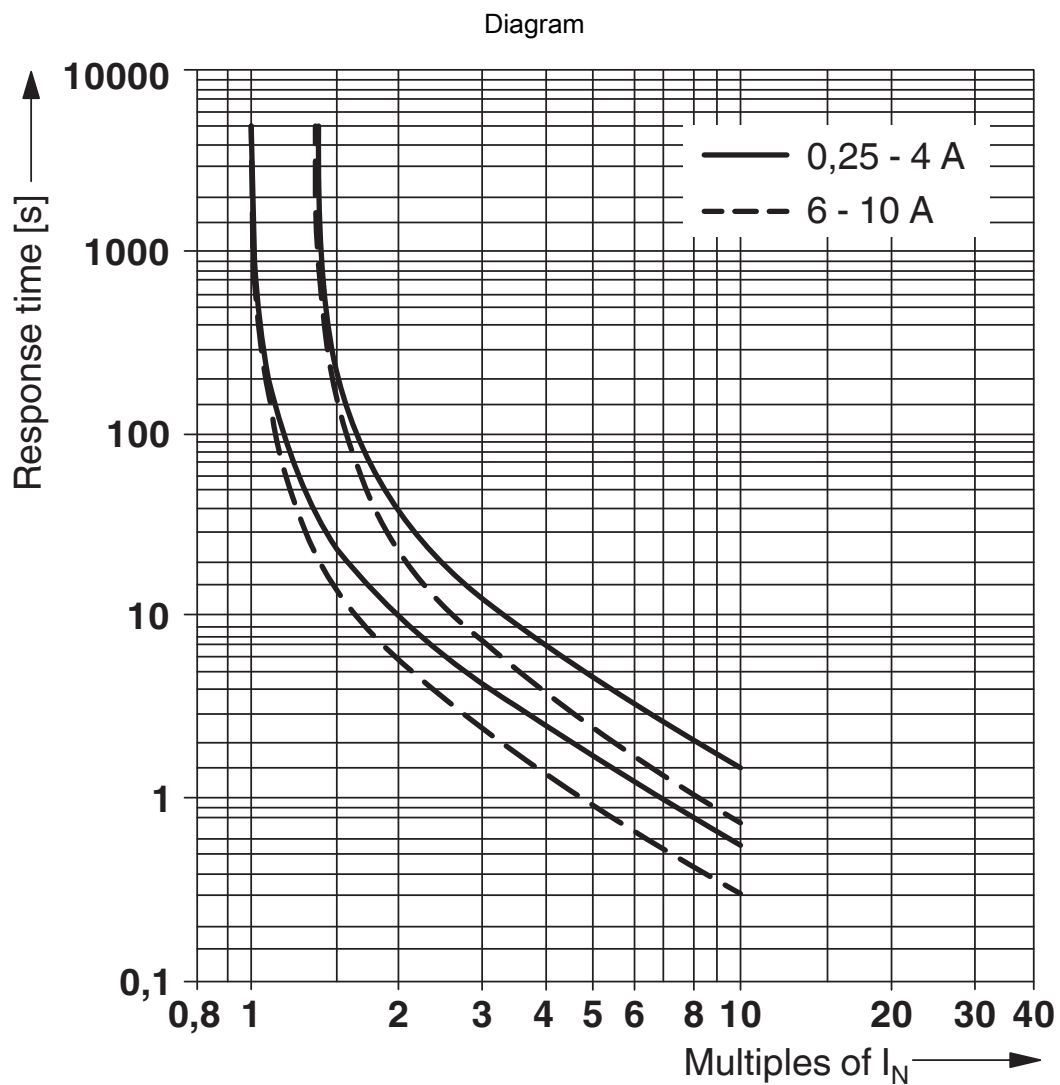


Application drawing



Application drawing





Trigger characteristic

TCP 6A - Thermal device circuit breaker



0712275

<https://www.phoenixcontact.com/au/products/0712275>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/au/products/0712275>

	CSA Approval ID: 074317			
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	250 V	6 A	-	-

	cUL Recognized Approval ID: FILE E 140459
---	---

	UL Recognized Approval ID: FILE E 140459
---	--

	EAC Approval ID: EAC-Zulassung
---	--

	EAC Approval ID: RU C-DE.A*30.B01546
---	--

	VDE approval of drawings Approval ID: 40034332
---	--

	CCC Approval ID: 2025010307749780
---	---

UAE-RoHS Approval ID: 23-10-88896	
---	--

TCP 6A - Thermal device circuit breaker



0712275

<https://www.phoenixcontact.com/au/products/0712275>

Classifications

ECLASS

ECLASS-13.0	27140401
-------------	----------

ETIM

ETIM 9.0	EC003538
----------	----------

UNSPSC

UNSPSC 21.0	39121400
-------------	----------

TCP 6A - Thermal device circuit breaker



0712275

<https://www.phoenixcontact.com/au/products/0712275>

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
---	--------------------

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
-------------------------------------	----------------------------

EF3.0 Climate Change

CO2e kg	1.373 kg CO2e
---------	---------------

Phoenix Contact 2025 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT PTY Ltd
Unit 7, 2-8 South Street
Rydalmere NSW 2116
1300 786 411
customerservice@phoenixcontact.com.au