QPD T 3PE1,5 2X8-13 BK - T distributor

1414709

https://www.phoenixcontact.com/us/products/1414709

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T distributor, product family: QPD, connection method: IDC connection, number of positions: 3+PE, 0.5 mm^2 ... 1.5 mm^2, 690 V, 17.5 A, PA, black, With two QUICKON nuts, coding: Coding profile, external cable diameter: 10 mm ... 13 mm

Your advantages

- Innovative and time saving - QUICKON fast connection for time saving of up to 80 % for on-site connection
- Robust throughout: housing with IP68/IP69K and IK07 protection for a wide range of applications
- Safer connection with mechanical coding to protect against mismatching, and touch-proof protection in accordance with DIN EN 0105
- Flexible and compact - by connecting connections internally, H and T-distributors can be used to branch master cables or they can be used as star distributors

Commercial data

Item number	1414709
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF50
Product key	BF6DBA
Catalog page	Page 473 (C-2-2019)
GTIN	4055626032047
Weight per piece (including packing)	114.9 g
Weight per piece (excluding packing)	114.9 g
Customs tariff number	85366990
Country of origin	PL

Technical data

Product properties

Product type	Power distributor
Product family	QPD
Type	T distributor
Number of positions	4
Connection profile	3+PE
Position marking	1, 2, 3, PE
Number of connections	2
No. of cable outlets	3
Coding	Coding profile

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Connection data

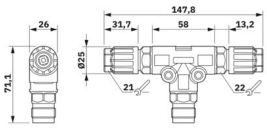
Connection technology

Connection method	IDC connection
Frequency of connections between conductors of the same cross section	max. 10

Conductor connection

Conductor cross section flexibel	0.5 mm² ... 1.5 mm²
Conductor cross section solid	0.5 mm² ... 1.5 mm²
Connection cross section AWG	20 ... 16
Tightening torque Union nut	8 Nm
Tightening torque Locking nut	5 Nm

Dimensions

Dimensional drawing	
Width	71.1 mm
Height	26 mm
Length	147.8 mm

Electrical properties

Rated surge voltage (II/2)	8 kV
Rated surge voltage (III/2)	8 kV
Rated surge voltage (III/3)	6 kV
Rated current	17.5 A

Contact resistance	< 3 mΩ
rated voltage (II/2)	1000 V
rated voltage (III/2)	1000 V
Rated voltage (III/3)	690 V
Nominal voltage U_N	690 V AC
	690 V DC
Nominal current I_N	17.5 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	max. 50 (QUICKON connections max. 10)

Material specifications

Color	black (RAL 9005)
Material Housing	PA
Material Contact	Cu
Material Contact surface	Silver-plated
Flammability rating according to UL 94	V0
Material wire insulation	PVC/PE/TPE/rubber

Cable/line

Structure of individual litz in acc. with VDE 0295 / smallest wire diameter	VDE 0295 class 1 to 6/min. 0.15 mm
External cable diameter	10 mm ... 13 mm
Wire diameter including insulation	1.6 mm ... 3 mm
Position marking	1, 2, 3, PE
Material wire insulation	PVC/PE/TPE/rubber

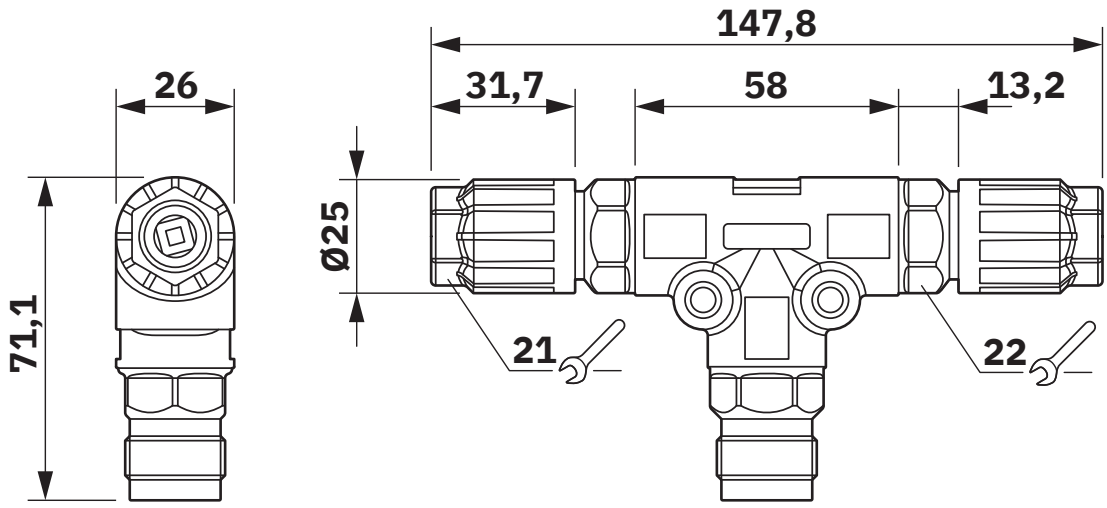
Environmental and real-life conditions

Ambient conditions

Degree of protection	IP66
	IP68 (2 m / 24 h)
	IP69K
Ambient temperature (operation)	-40 °C ... 100 °C
Temperature when conductor connected	-5 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 100 °C

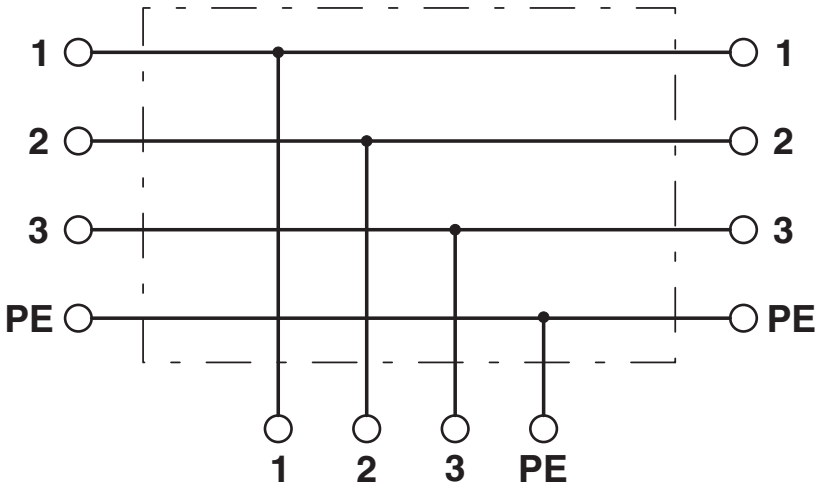
Drawings

Dimensional drawing

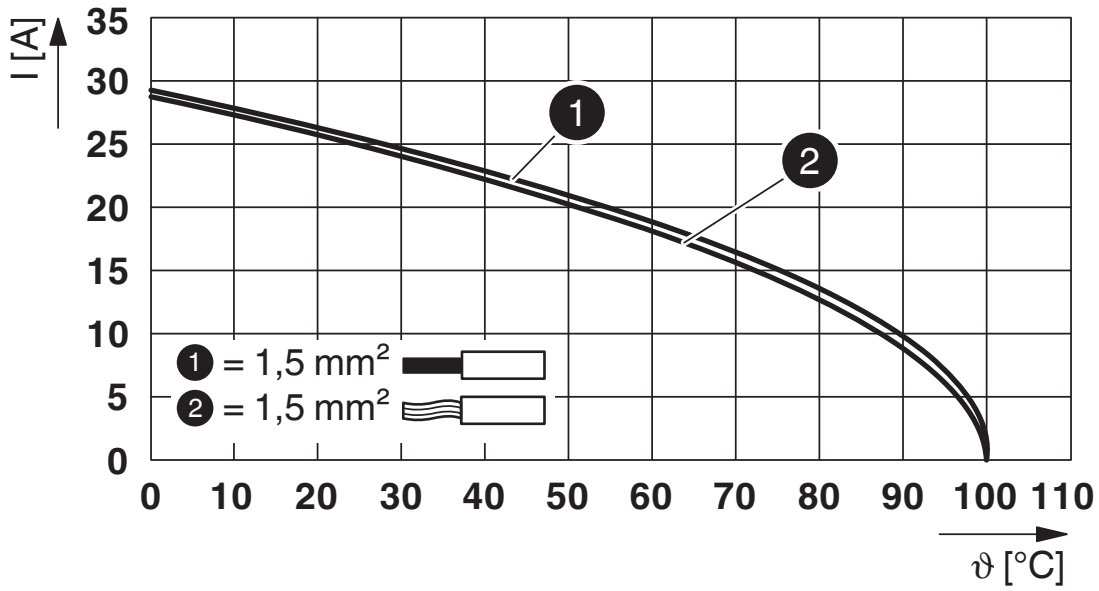


Dimensional drawing

Circuit diagram



Diagram



Derating diagram

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1414709

IECEE CB Scheme
Approval ID: DE1-65875

EAC
Approval ID: RU C-DE.BL08.B.00511

DNV GL
Approval ID: TAE00003J5

VDE Zeichengenehmigung
Approval ID: 40029149

UL Listed
Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	8 A	-	- 16

cUL Listed
Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	8 A	- 16	-

cULus Listed

Classifications

ECLASS

ECLASS-11.0	27440603
ECLASS-12.0	27440603
ECLASS-13.0	27440603

ETIM

ETIM 9.0	EC002567

UNSPSC

UNSPSC 21.0	39121400

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%

Mandatory accessories

QPD P 3PE1,5 8-13 BK - Connector

1414704

https://www.phoenixcontact.com/us/products/1414704



Connector, product family: QPD, connection method: IDC connection, number of positions: 3+PE, 0.5 mm^2 ... 1.5 mm^2, 690 V, 17.5 A, PA, black, with QUICKON nut, coding: Coding profile, external cable diameter: 10 mm ... 13 mm

QPD N 3PE1,5 8-13 BK - Nut

1415098

https://www.phoenixcontact.com/us/products/1415098



Nut, product family: QPD, connection method: IDC connection, number of positions: 3+PE, 0.5 mm^2 ... 1.5 mm^2, 690 V, 17.5 A, PA, black, external cable diameter: 10 mm ... 13 mm

Accessories

CP-QPD 3/4X1,5 - Coding profile

1414729

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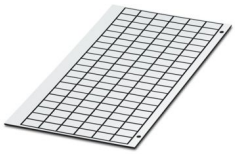


Coding profile red, for pushing into the QUICKON dome and connector, can be positioned in 90° steps.

GPE 13X 9 WH - Engraving material

0806932

https://www.phoenixcontact.com/us/products/0806932



Engraving material, Sheet, white, unlabeled, can be labeled with: PLOTMARK, ENGRAVING UNIT, CMS-P1-PLOTTER, P1 ENGRAVING UNIT, mounting type: adhesive, lettering field size: 13 x 9 mm, Number of individual labels: 120

EMLP (13X9)R - Label

0819453

https://www.phoenixcontact.com/us/products/0819453



Label, Roll, white, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, lettering field size: 13 x 9 mm, Number of individual labels: 500

QPD QSK BK 3/4X1,5 FS - Protective cap

1414722

https://www.phoenixcontact.com/us/products/1414722

Protective cap, plastic, for QUICKON connection, black, with retaining cord, IP68



QPD QSK 3/4X1,5 - Protective cap

1414723

https://www.phoenixcontact.com/us/products/1414723



Protective cap plastic, for QPD-QUICKON connection 3(4) x 1.5 mm^2, IP50

SEALING PLUG 10X16 RD - Closing cap

1400284

https://www.phoenixcontact.com/us/products/1400284



Closing cap, for threads pluggable, color: red

QPD W 3PE1,5 8-13 M20 0,5 BK - Panel feed-through

1414678

https://www.phoenixcontact.com/us/products/1414678



Panel feed-through, product family: QPD, connection method: Single wires/ IDC connection, number of positions: 3+PE, M20, Pin, 0.5 mm^2 ... 1.5 mm^2, 690 V, 17.5 A, PA, black, with QUICKON nut, coding: Coding profile, external cable diameter: 10 mm ... 13 mm, 1.5 mm^2, cable length: 0.5 m

QPD W 3PE1,5 8-13 M20 1,0 BK - Panel feed-through

1414679

https://www.phoenixcontact.com/us/products/1414679



Panel feed-through, product family: QPD, connection method: Single wires/ IDC connection, number of positions: 3+PE, M20, Pin, 0.5 mm^2 ... 1.5 mm^2, 690 V, 17.5 A, PA, black, with QUICKON nut, coding: Coding profile, external cable diameter: 10 mm ... 13 mm, 1.5 mm^2, cable length: 1 m

QPD W 3PE1,5 8-13 M20 FC BK - Panel feed-through

1414680

https://www.phoenixcontact.com/us/products/1414680



Panel feed-through, product family: QPD, connection method: Spade connection (For slip-on sleeves according to DIN 46247-2)/ IDC connection, number of positions: 3+PE, M20, Pin, 0.5 mm^2 ... 1.5 mm^2, 690 V, 15 A, PA, black, with QUICKON nut, coding: Coding profile, external cable diameter: 10 mm ... 13 mm, 1.5 mm^2

QPD C 3PE1,5 1X8-13 BK - Conductor connector

1414697

https://www.phoenixcontact.com/us/products/1414697



Conductor connector, product family: QPD, connection method: IDC connection, number of positions: 3+PE, 0.5 mm^2 ... 1.5 mm^2, 690 V, 17.5 A, PA, black, with one QUICKON nut, coding: Coding profile, external cable diameter: 10 mm ... 13 mm

QPD T 3PE1,5 2X8-13 BK - T distributor

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QPD C 3PE1,5 2X8-13 BK - Conductor connector

1414698

https://www.phoenixcontact.com/us/products/1414698



Conductor connector, product family: QPD, connection method: IDC connection, number of positions: 3+PE, 0.5 mm^2 ... 1.5 mm^2, 690 V, 17.5 A, PA, black, With two QUICKON nuts, coding: Coding profile, external cable diameter: 10 mm ... 13 mm

QPD T 3PE1,5 3X8-13 BK - T distributor

1414710

https://www.phoenixcontact.com/us/products/1414710



T distributor, product family: QPD, connection method: IDC connection, number of positions: 3+PE, 0.5 mm^2 ... 1.5 mm^2, 690 V, 17.5 A, PA, black, With three QUICKON nuts, coding: Coding profile, external cable diameter: 10 mm ... 13 mm

QPD T 3PE1,5 2X8-13 BK - T distributor

1414709

https://www.phoenixcontact.com/us/products/1414709

QPD H 3PE1,5 4X8-13 BK - H distributor

1414716

https://www.phoenixcontact.com/us/products/1414716



H distributor, product family: QPD, connection method: IDC connection, number of positions: 3+PE, 0.5 mm^2 ... 1.5 mm^2, 690 V, 17.5 A, PA, black, with four QUICKON nuts, coding: Coding profile, external cable diameter: 10 mm ... 13 mm, with a sealing bolt

QSS 22 - Socket wrench

1670206

https://www.phoenixcontact.com/us/products/1670206



Allen wrench, for loosening and fastening the QUICKON union nut, WAF 22 mm

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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com