



COMPLETE line

COMPLETE line

2022 Quick Reference Guide

Time for the new standard

The comprehensive solution for your control cabinet

COMPLETE line

COMPLETE line is a system comprising of technologically leading and coordinated hardware and software products, consulting services and system solutions that help you optimize your processes in control cabinet manufacturing. Engineering, purchasing, installation and operation become significantly easier for you.



Intuitive handling

Saving you time in the entire engineering process



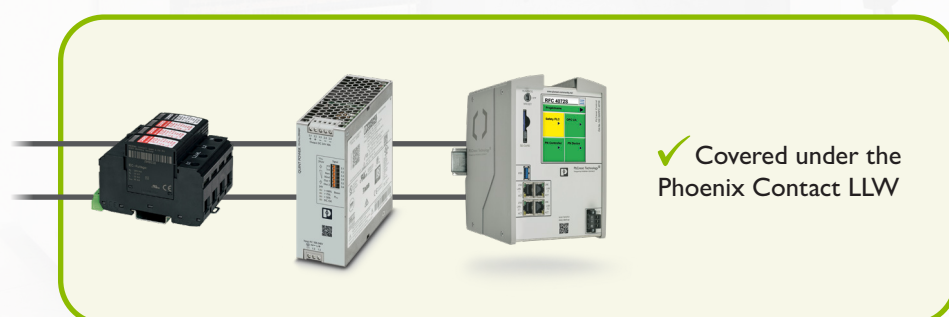
Choose Phoenix Contact with Confidence



Customers have trusted Phoenix Contact and our products for almost 100 years. We are now elevating our commitment to that trust with our new Limited Lifetime Warranty (LLW).

It's our promise to you that the components you install in your control cabinets are free from defects and built to last. Our goal is to be your most trusted partner by improving the long-term reliability of your machines, equipment, and systems.

Phoenix Contact is a world leader in industrial connection and automation technologies, electronic interface systems, and low-voltage power products. This Limited Lifetime Warranty commitment is an extension of the trust customers have come to rely on.



How to Register

- 1 Submit your registration online



- 2 Select and install Phoenix Contact products in accordance with our recommendations

- 3 Make sure all electronics are powered and protected with appropriate Phoenix Contact power supplies and surge protection

Table of Contents



Power Reliability

Power Supplies	1
Uninterruptible Power Supplies (UPS)	2-4
DC Power	2
AC Power – 1 kVA Double-Conversion	3
AC Power – 500 VA Offline	4
Surge Protection	5-6
Circuit Breakers	7



Connectivity

Modular Terminal Blocks	8
Heavy-Duty Connectors	9
Connectors	10
Cordsets	11



Signal Switching and Conditioning

Relays	12, 13
Signal Conditioners	14



Networking and Remote Connectivity

M8/M12 Distributor Boxes	15
Unmanaged Ethernet Switches	16
PoE and Ethernet Installation Technologies	17-18
Managed Switches	19
Secure Remote Connectivity	20
Cloud-Based Remote Maintenance	
Axioline F for the Control Cabinet	21-22
Axioline Smart Elements	23
Control Cabinet Lights	24
HMI's	25



Shop Floor Productivity

Marking	26
Commonly Used Marking Materials	27
Installation	28
Cable Ducts	29
Accessories	30

Power Supplies

Technical Service (800) 890-2820 ext.1 • techsupport@phoenixcontact.ca

■ Do you need a single-phase or a three-phase power supply?
■ What is the output DC voltage?
■ What is your output current (Amps)?
■ Does the power supply need Class I, Division 2 rating?
■ Have you considered surge protection?
■ Resulting Phoenix Contact order #

Phase	Output voltage	Output current	Class I Div 2	Description	Order #	
Single phase	5 V DC	5 A		UNO-PS/1AC/5DC/25 W	2904374	
		8 A		UNO-PS/1AC/5DC/40 W	2904375	
	12 V DC	2.5 A		UNO-PS/1AC/12DC/30 W	2902998	
		4.6 A		UNO-PS/1AC/12DC/55 W	2902999	
		5 A		TRIO-PS-2 G/1AC/12DC/5/C2LPS	2903157	
		8.3 A		UNO-PS/1AC/12DC/100 W	2902997	
		10 A	✓	TRIO-PS-2G/1AC/12DC/10	2903158	
		15 A		QUINT-4-PS/1AC/12DC/15	2904608	
		20 A		QUINT-PS/1AC/12DC/20	2866721	
	15 V DC	2 A		UNO-PS/1AC/15DC/30W	2903000	
		3.67 A		UNO-PS/1AC/15DC/55W	2903001	
		4 A		UNO-PS/1AC/15DC/60W	2902992	
	24 V DC	48 V DC	6.67 A		UNO-PS/1AC/15DC/100W	2903002
			1.3 A		QUINT4-PS/1AC/24 DC/1.3/PT	2909575
			1.3 A		QUINT4-PS/1AC/24 DC/1.3/SC	2904597
			2.5 A	×	TRIO-PS/1AC/24 DC/2.5	2866268
		2.5 A		QUINT4-PS/1AC/24DC/2.5/PT	2909576	
		2.5 A		QUINT4-PS/1AC/24DC/2.5/SC	2904598	
		3 A		TRIO-PS-2G/1AC/24DC/3/C2LPS	2903147	
		3.5 A		QUINT-PS/1AC/24DC/3.5	2866747	
		3.75 A	✓	UNO-PS/1AC/24 DC/90W/C2LPS	2902994	
		3.8 A	×	QUINT4-PS/1AC/24DC/3.8/PT	2909577	
		3.8 A	×	QUINT4-PS/1 AC/24 DC/3.8/SC	2904599	
		4.2 A	✓	UNO-PS/1AC/24 DC/100W	2902993	
		5 A	✓	QUINT4-PS/1AC/24DC/5	2904600	
		5 A	×	TRIO-PS-2G/1AC/24DC/5	2903148	
		6.25 A	✓	UNO-PS/1AC/24 DC/150W	2904376	
		10 A		QUINT4-PS/1AC/24DC/10	2904601	
		10 A	×	TRIO-PS-2G/1AC/24DC/10	2903149	
		10 A		UNO-PS/1AC/24DC/240W	2904372	
		20 A	✓	QUINT4-PS/1AC/24DC/20	2904602	
		20 A	×	TRIO-PS-2G/1AC/24DC/20	2903151	
	40 A		QUINT4-PS/1AC/24DC/40	2904603		
	48 V DC	24 V DC	1.25 A	✓	UNO-PS/1AC/48DC/60W	2902995
			2.08 A	✓	UNO-PS/1AC/48DC/100W	2902996
		5 A		QUINT-PS/1AC/48DC/5	2866679	
5 A		×	TRIO-PS-2G/1AC/48DC/5	2903159		
10 A		✓	QUINT4-PS/1AC/48DC/10	2904611		
10 A		×	TRIO-PS-2G/1AC/48 DC/10	2903160		
	48 V DC	20 A	✓	QUINT-PS/1AC/48DC/20	2866695	

Phase	Output voltage	Output current	Class I Div 2	Description	Order #
Three phase	24 V DC	5 A	✓	QUINT4-PS/3AC/24DC/5	2904620
		5 A	×	TRIO-PS-2G/3AC/24DC/5	2903153
		10 A	✓	QUINT4-PS/3AC/24 DC/10	2904621
		10 A	×	TRIO-PS-2G/3AC/24DC/10	2903154
		20 A	✓	QUINT4-PS/3AC/24DC/20	2904622
		20 A	×	TRIO-PS-2G/3AC/24DC/20	2903155
		40 A	✓	QUINT4-PS/3AC/24DC/40	2904623
	40 A	×	TRIO-PS-2 G/3AC/24DC/40	2903156	
	48 V DC	20 A	✓	QUINT-PS/3AC/48DC/20	2320827

Recommended surge protection/power supply input

Phase	Voltage	Rated current	Description	Order #
Single phase	120 V AC	26 A	PLT-SEC-T3-120-FM-UT	2907918
	240 V AC	26 A	PLT-SEC-T3-230-FM-UT	2907919
	120 V AC	26 A	PLT-SEC-T3-120-FM-PT	2907927
	240 V AC	26 A	PLT-SEC-T3-230-FM-PT	2907928
Three phase	120/208 V AC	n/a	VAL-US-120/40/3+1-FM	2910354
	277/480 V AC	n/a	VAL-US-277/40/3+1-FM	2910374

QUINT



TRIO






UNO

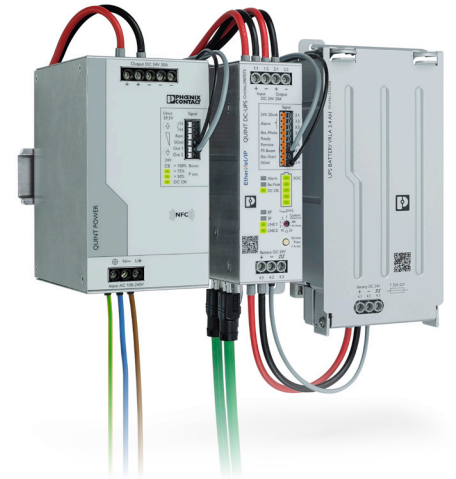






Uninterruptible Power Supplies (UPS)

DC power

For critical applications, uninterruptible Power Supplies (UPS) can provide a lifeline to keep your system up and running.

	Power supply AC-to-DC, DC-to-DC power supplies		+ UPS module Selected based on output requirements		+ Energy-storage device How long does the system need to remain online once the main power is lost?
---	--	---	--	--	---



DC QUINT Power supply			UPS module
	Select UPS:		
	What input /output voltage?		
	What output power/current? (Round up... A 3 A system would use a 5 A UPS)		

Comms	Input/Output/Amps	Description	Order #
None	24DC/24DC/5A	QUINT4-UPS/24DC/24DC/5	2906990
None	24DC/24VDC/10A	QUINT4-UPS/24DC/24DC/10	2907066
None	24DC/24VDC/20A	QUINT4-UPS/24DC/24DC/20	2907071
None	24DC/24VDC/40A	QUINT4-UPS/24DC/24DC/40	2907077
USB	24DC/24DC/5A	QUINT4-UPS/24DC/24DC/5/USB	2906991
USB	24DC/24VDC/10A	QUINT4-UPS/24DC/24DC/10/USB	2907067
USB	24DC/24VDC/20A	QUINT4-UPS/24DC/24DC/20/USB	2907072
USB	24DC/24VDC/40A	QUINT4-UPS/24DC/24DC/40/USB	2907078
ETHERNET IP	24DC/24VDC/10A	QUINT4-UPS/24DC/24DC/5/EIP	2906994
ETHERNET IP	24DC/24DC/5A	QUINT4-UPS/24DC/24DC/10/EIP	2907069
ETHERNET IP	24DC/24VDC/20A	QUINT4-UPS/24DC/24DC/20/EIP	2907074
ETHERNET IP	24DC/24VDC/40A	QUINT4-UPS/24DC/24DC/40/EIP	2907080

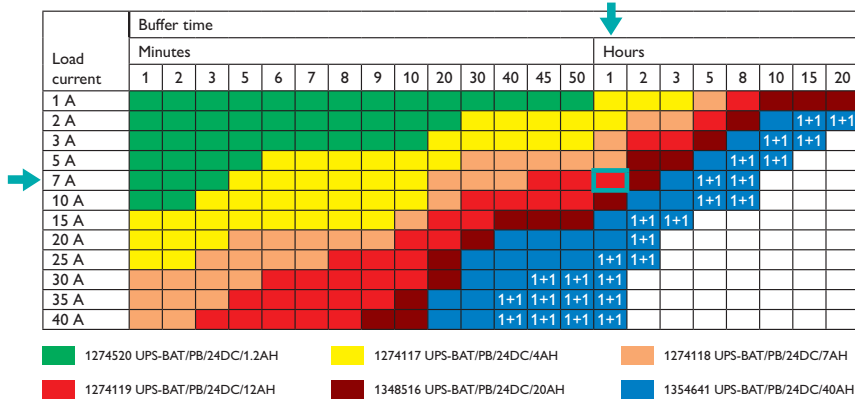


Comms	Input/Output/Amps	Description	Order #
PROFINET	24DC/24DC/5A	QUINT4-UPS/24DC/24DC/5/PN	2906993
PROFINET	24DC/24VDC/10A	QUINT4-UPS/24DC/24DC/10/PN	2907068
PROFINET	24DC/24VDC/20A	QUINT4-UPS/24DC/24DC/20/PN	2907073
PROFINET	24DC/24VDC/40A	QUINT4-UPS/24DC/24DC/40/PN	2907079
ETHERCAT	24DC/24DC/5A	QUINT4-UPS/24DC/24DC/5/EC	2906996
ETHERCAT	24DC/24VDC/10A	QUINT4-UPS/24DC/24DC/10/EC	2907070
ETHERCAT	24DC/24VDC/20A	QUINT4-UPS/24DC/24DC/20/EC	2907076
ETHERCAT	24DC/24VDC/40A	QUINT4-UPS/24DC/24DC/40/EC	2907081

What type of energy-storage device: VRLA, CAP, or LI-ION?
How much current does the battery need to supply the system and for how long? See chart below.

Energy storage

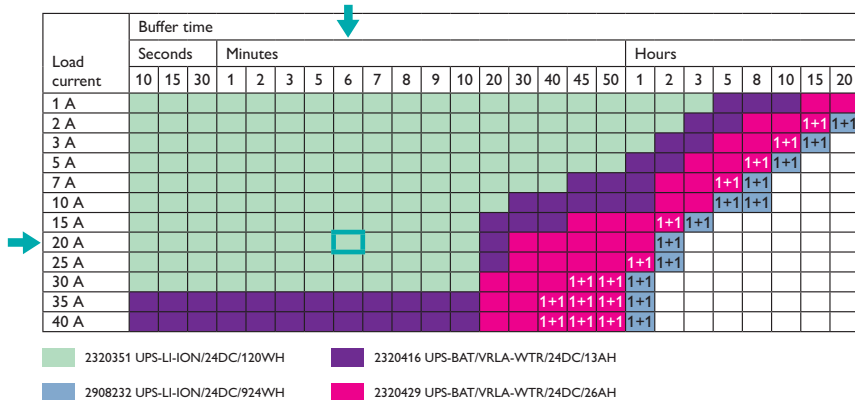
Energy-storage type UPS-BAT/PB



1+1 ... Two energy-storage types of the same capacity are required, based on ambient temperature of 20°C.

Order #	Dimensions	Capacity	Order #	Dimensions	Capacity	Order #	Dimensions	Capacity
1274520	54 x 157 x 113	1.2 Ah	1274117	85 x 191 x 110	4 Ah	1274118	135 x 202 x 110	7 Ah
1274119	202 x 202 x 110	12 Ah	1348516	181 x 76 x 166	20 Ah	1354641	197 x 165 x 171	40 Ah

LI-ION or VLRA-WTR






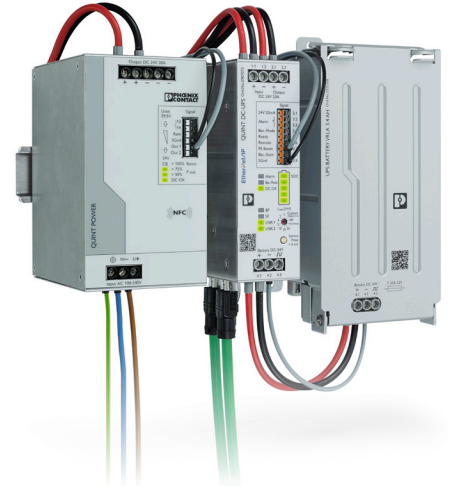
1+1 ... Two energy-storage types of the same capacity are required, based on ambient temperature of 20°C.

Order #	Dimensions	Capacity	Order #	Dimensions	Capacity
2320351	135 x 202 x 110	120 Wh	2320416	172 x 177 x 178	13 Ah
2908232	264 x 224 x 197	924 Wh	2320429	358 x 174 x 169	26 Ah

Uninterruptible Power Supplies (UPS)

AC power – 1 kVA double-conversion

	Power supply AC-to-DC, DC-to-DC power supplies		+ UPS module Selected based on output requirements		+ Energy-storage device How long does the system need to remain online once the main power is lost?
---	--	---	--	---	---



For use with AC QUINT power supply

Select UPS:

What input voltage?

What output power/current? (Round up... A 3 A system would use a 5 A UPS)

QUINT UPS

QUINT IQ technology

State of Charge - Describes current charging state and remaining runtime

State of Health - Provides information on the energy-storage device life expectancy

Input voltage	Output	Description	Order #
120 V AC/230 V AC	120 V AC/230 V AC - 1 kV A	QUINT4-UPS/1 AC/1 AC/1 kV A	2320283

+

 **UPS module**






 **Energy storage**

What type of energy-storage device: VRLA, CAP, or LI-ION?

How much current does the battery need to supply the system and for how long? See chart below.

Energy-storage type





UPS-BAT/PB

	1274117	1274118	1274119
UPS-BAT/PB/24DC/4AH		UPS-BAT/PB/24DC/7AH	UPS-BAT/PB/24DC/12AH
85 x 191 x 110		135 x 202 x 110	202 x 202 x 110
4 Ah		7 Ah	12 Ah
1348516		1354641	
UPS-BAT/PB/24DC/20AH		UPS-BAT/PB/24DC/40AH	
181 x 76 x 166		197 x 165 x 171	
20 Ah		40 Ah	

Power	Buffer time																			
	Minutes					Hours														
	2	3	4	5	8	10	15	20	25	30	40	50	1	1.5	2	3	4	6	9	10
100 W	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1
200 W	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1
300 W	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1
400 W	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1
500 W	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1
600 W	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1
700 W	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1
800 W	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1
900 W	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1

- 1274117 UPS-BAT/PB/24DC/4AH
- 1274118 UPS-BAT/PB/24DC/7AH
- 1274119 UPS-BAT/PB/24DC/12AH
- 1354641 UPS-BAT/PB/24DC/40AH

1+1: For the QUINT AC UPS/1kVA, two energy storage devices of the same capacity are always required. The data is based on an ambient temperature of 20°C.

	UPS-BAT/LI-ION	LI-ION	VLRA-WTR
2320351		2320416	
UPS-LI-ION/24DC/120WH		UPS-BAT/PB/24DC/13AH	
135 x 202 x 110		172 x 177 x 178	
120 Wh		13 Ah	
2908232		2320429	
UPS-LI-ION/24DC/924WH		UPS-BAT/VRLA/24DC/26AH	
264 x 224 x 197		358 x 174 x 169	
924 Wh		26 Ah	




Power	Buffer time																			
	Minutes					Hours														
	2	3	4	5	8	10	15	20	25	30	40	50	1	1.5	2	3	4	6	9	10
100 W	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1
200 W	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1
300 W	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1
400 W	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1
500 W	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1
600 W	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1
700 W	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1
800 W	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1
900 W	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1

- 2320351 UPS-LI-ION/24DC/120WH
- 2320416 UPS-BAT/PB/24DC/13AH
- 2908232 UPS-LI-ION/24DC/924WH
- 2320429 UPS-BAT/PB/24DC/26AH

1+1: For the QUINT AC UPS/1kVA, two energy storage devices of the same capacity are always required. The data is based on an ambient temperature of 20°C.

Uninterruptible Power Supplies (UPS)

AC power – 500 VA off-line

	Power supply AC-to-DC, DC-to-DC power supplies		+ UPS module Selected based on output requirements		+ Energy-storage device How long does the system need to remain online once the main power is lost?
---	--	---	--	--	---

For use with AC QUINT power supply

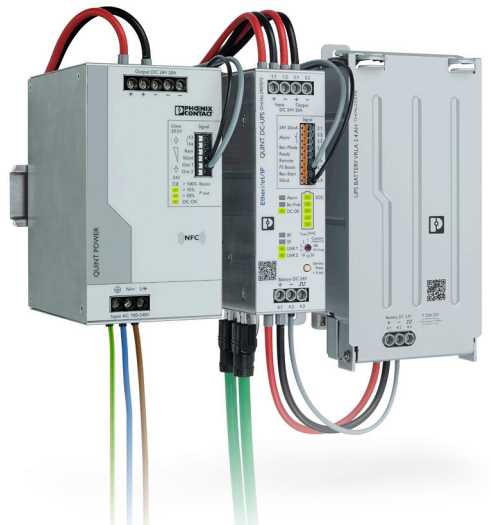
- Select UPS:
- What input voltage?
- What output power/current? (Round up... A 3 A system would use a 5 A UPS)

QUINT UPS

QUINT IQ technology
 State of Charge - Describes current charging state and remaining runtime
 State of Health - Provides information on the energy-storage device life expectancy

IQ Technology
 Designed by PHOENIX CONTACT

Input voltage	Output	Description	Order #
120 V AC / 230 V AC	120 V AC / 230 V AC / 500 VA	QUINT4-UPS/1AC/1AC/500VA/USB	1067327

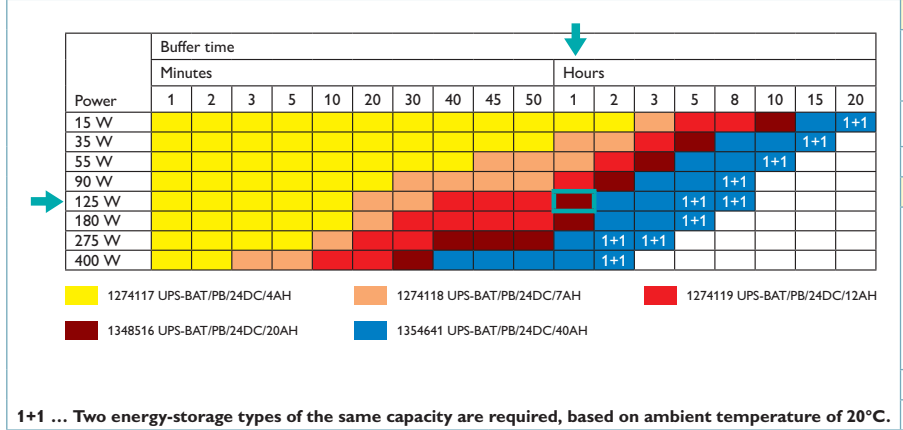







What type of energy storage-device: VRLA, CAP, or LI-ION?

How much current does the battery need to supply the system and for how long? See chart below.



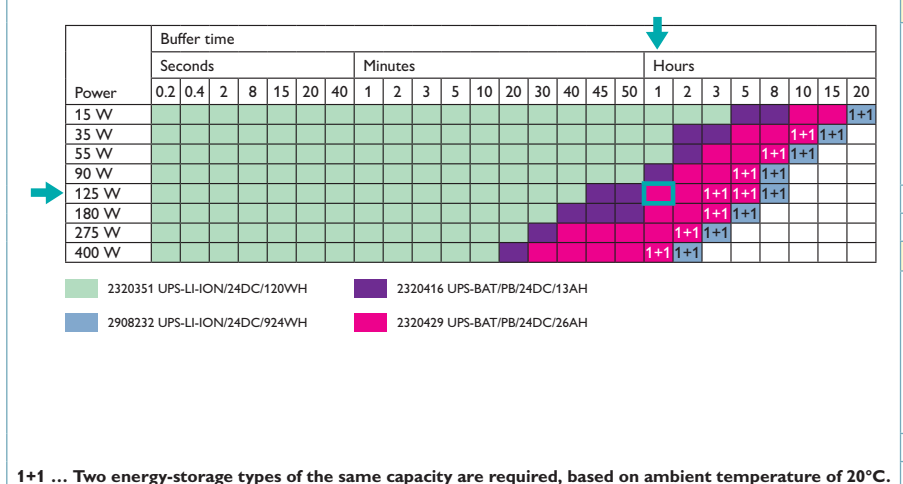
Energy-storage type







1274117		1274118		1274119	
UPS-BAT/PB/24DC/4AH	85 x 191 x 110	UPS-BAT/PB/24DC/7AH	135 x 202 x 110	UPS-BAT/PB/24DC/12AH	202 x 202 x 110
4 Ah		7 Ah		12 Ah	
1348516		1354641			
UPS-BAT/PB/24DC/20AH	181 x 76 x 166	UPS-BAT/PB/24DC/40AH	197 x 165 x 171		
20 Ah		40 Ah			

1+1 ... Two energy-storage types of the same capacity are required, based on ambient temperature of 20°C.

LI-ION or VLRA-WTR



2320351		2320416	
UPS-LI-ION/24DC/120WH	135 x 202 x 110	UPS-BAT/VRLA/24DC/13AH	172 x 177 x 178
120 Wh		13 Ah	
2908232		2320429	
UPS-LI-ION/24DC/924WH	264 x 224 x 197	UPS-BAT/VRLA/24DC/26AH	358 x 174 x 169
924 Wh		26 Ah	

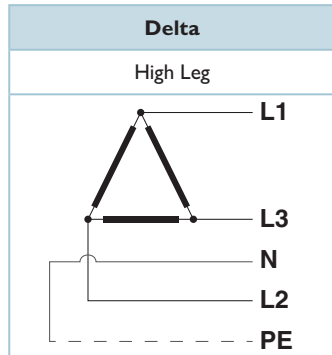
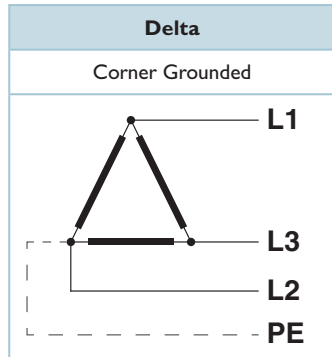
1+1 ... Two energy-storage types of the same capacity are required, based on ambient temperature of 20°C.

Surge Protection Power

VAL-US Series



IEC/UL	
3-phase/Three Phase Wye	
TN-S (3+1)	
TN-C (3+0)	
2-phase/Single Split Phase	
TN-S (2+1)	
TN-C (2+0)	
1-phase/Single Phase	
TN-S (1+1)	
TN-C (1+0)	




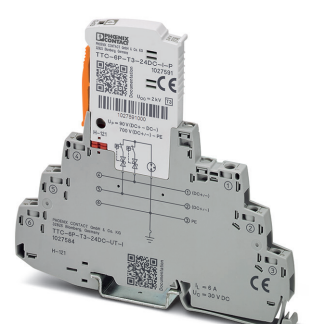


Network Type				SPD Type IEC		Description	Order #
Voltage	Phases	IEC	UL	T1/T2	T2		
400/690V AC 347/600V AC	3-phase	TN-C	Three Phase Wye		✓	VAL-US-347/30/3+0-FM	2910383
277/480V AC		TN-S			✓	VAL-US-347/30/3+1-FM	1079099
					✓	VAL-US-277/40/3+1-FM	2910374
277/480V AC	3-phase	TN-S	Three Phase Wye		✓	VAL-US-240/40/3+1-FM	2910367
240/415V AC		TN-C			✓	VAL-US-277/80/4+0-FM	2910380
					✓	VAL-US-277/80/3+0-FM	1075896
240/415V AC	2-phase	TN-S	Single Split Phase		✓	VAL-US-240/40/3+0-FM	2910366
		TN-C			✓	VAL-US-240/40/2+1-FM	2910365
	1-phase	TN-S	Single Phase		✓	VAL-US-240/40/2+0-FM	2910364
	TN-C			✓	VAL-US-240/40/1+1-FM	2910362	
120/240V AC	2-phase	TN-S	Single Split Phase	✓		VAL-US-240/40/1+0-FM	2910377
		TN-C			✓	VAL-US-277/80/1+0-FM	2910358
					✓	VAL-US-120/65/2+1-FM	2910351
120/208V AC	3-phase	TN-S	Three Phase Wye		✓	VAL-US-120/40/2+0-FM	2910357
		TN-C			✓	VAL-US-120/65/2+0-FM	2910352
					✓	VAL-US-120/40/2+1-FM	2910352
400V AC	1-phase	TN-S	Single Phase	✓		VAL-US-120/65/3+1-FM	2910360
		TN-C			✓	VAL-US-120/40/3+1-FM	2910354
					✓	VAL-US-120/65/3+0-FM	2910359
277V AC	1-phase	TN-S	Single Phase		✓	VAL-US-120/40/3+0-FM	2910353
		TN-C			✓	VAL-US-347/30/1+0-FM	2910381
					✓	VAL-US-277/40/1+1-FM	2910373
120V AC	1-phase	TN-S	Single Phase	✓		VAL-US-120/65/1+1-FM	2910356
		TN-C			✓	VAL-US-120/40/1+0-FM	2910348
					✓	VAL-US-120/40/1+1-FM	2910349
(+/-) 48V DC 60V DC	1-phase	TN-S	Single Phase		✓	VAL-US-48/65/1+1V-FM	2910346
		TN-C			✓	VAL-US-48/40/1+1V-FM	2910344
					✓	VAL-US-48/65/1+0-FM	2910345
				✓	VAL-US-48/40/1+0-FM	2910343	

Delta systems

Network Type				SPD Type IEC		Description	Order #
Voltage	UL	IEC	UL	T1/T2	T2		
960V AC	Corner Grounded	TN-S			✓	VAL-US-600D/30/2+0-FM	2910390
		TN-C			✓	VAL-US-600D/30/3+0-FM	2910391
690V AC	Corner Grounded	TN-S			✓	VAL-US-480D/30/2+0-FM	2910385
		TN-C			✓	VAL-US-480D/30/3+0-FM	2910386
480V AC	High Leg Delta	TN-S			✓	VAL-US-480HLD/30/3+1V-FM	2910387
240V AC	Corner Grounded	TN-S			✓	VAL-US-240D/40/2+0-FM	2910369
		TN-C			✓	VAL-US-240D/40/3+0-FM	2910370
				✓	VAL-US-240HLD/40/3+1-FM	2910371	

Surge Protection

Technical Service (800) 890-2820 ext.1 • techsupport@phoenixcontact.ca

■ What type of signal do you need: loop (4/20 mA, 0-10 V) or discrete (binary 12 V, 24 V)?											
■ Do you require a push-in, screw, RJ45, or D-SUB connection?											
■ What is the voltage required?											
■ Will you use direct or indirect signal ground?											
■ Does it include a pluggable design?											
■ With or without status monitoring?											
■ Resulting Phoenix Contact order #											
Plugtrab (PT-IQ)											
Signal	Connection	Voltage	Grounding	Pluggable	Monitoring	Description	Order #				
Loop	Screw	5 V DC	Direct	<div style="background-color: #FFC0CB; width: 20px; height: 20px; display: inline-block;"></div>	<div style="background-color: #A9C9E9; width: 20px; height: 20px; display: inline-block;"></div>	PT-IQ-5-HF+F-5DC-UT	2800798				
		24 V DC	-			PT-IQ-PTB-UT	2800768				
			Direct			PT-IQ-2X2-24DC-UT	2800980				
	Indirect	PT-IQ-2X2+F-24DC-UT	2801264								
	Indirect	PT-IQ-2X2+F-48DC-UT	2800987								
	Push-in	5 V DC	Indirect			PT-IQ-2X2+F-5DC-PT	2801260				
24 V DC		-	PT-IQ-PTB-PT			2801296					
		Direct	PT-IQ-2X2-24DC-PT			2801263					
Indirect	PT-IQ-2X2+F-24DC-PT	2800981									
Direct	PT-IQ-2X2+F-48DC-PT	2801266									
Discrete	Screw	5 V DC	Indirect			<div style="background-color: #FFC0CB; width: 20px; height: 20px; display: inline-block;"></div>	<div style="background-color: #A9C9E9; width: 20px; height: 20px; display: inline-block;"></div>		PT-IQ-4X1+F-24DC-UT	2800983	
		24 V DC	-						PT-IQ-PTB-UT	2800768	
			Direct	PT-IQ-4X1-24DC-UT	2800982						
	Direct	PT-IQ-5-HF+F-5DC-UT	2800798								
	Push-in	5 V DC	Direct	PT-IQ-5-HF+F-5DC-PT	2801292						
		24 V DC	-	PT-IQ-PTB-PT	2801296						
Direct			PT-IQ-4X1-24DC-PT	2801271							
Direct	PT-IQ-4X1+F-24DC-PT	2801272									
Indirect	PT-IQ-5-HF-5DC-PT	2801291									
TERMITRAB complete (TTC)											
Signal	Connection	Voltage	Grounding	Pluggable	Monitoring				Description	Order #	
Loop	Screw	12 V DC	Indirect	<div style="background-color: #FFC0CB; width: 20px; height: 20px; display: inline-block;"></div>	<div style="background-color: #A9C9E9; width: 20px; height: 20px; display: inline-block;"></div>				TTC-6P-1X2-F-12DC-UT-I	2908196	
		24 V DC	Indirect			TTC-6P-1X2-F-M-24DC-UT-I	2906781				
			Direct			TTC-6P-1X2-24DC-UT-I	2906809				
	Direct	TTC-6-1X2-24DC-UT	2906798								
	Push-in	12 V DC	Direct			TTC-6P-1X2-48DC-UT-I	2908194				
			Indirect			TTC-6P-1X2-12DC-PT-I	2908193				
24 V DC		Direct	TTC-6P-1X2-F-M-24DC-PT-I			2906790					
Direct	TTC-6P-1X2-24DC-PT-I	2906815									
Direct	TTC-6-1X2-24DC-PT	2906804									
Discrete	Screw	48 V DC	Direct			TTC-3-1x2-24DC-PT	2907325				
			Indirect			TTC-6P-1X2-48DC-PT-I	2908195				
		12 V DC	Direct			TTC-6P-2X1-12DC-UT-I	2908201				
	24V DC	Indirect	TTC-6P-2X1-F-M-24DC-UT-I	2906784							
		Direct	TTC-6P-2X1-24DC-UT-I	2906810							
		Direct	TTC-6-2X1-24DC-UT	2906799							
	Push-in	48 V DC	Indirect	TTC-6P-2X1-F-48DC-UT-I	2908208						
			Indirect	TTC-6P-2X1-F-12DC-PT-I	2908206						
		12 V DC	Indirect	TTC-6P-2X1-F-M-24DC-PT-I	2906794						
			Direct	TTC-6P-2X1-24DC-PT-I	2906816						
		24 V DC	Direct	TTC-6-2X1-24DC-PT	2906805						
			Direct	TTC-3-2x1-24DC-PT	2907326						
48 V DC	Direct	TTC-6P-2X1-48DC-PT-I	2908204								
Coaxial surge protection (CN)											
Signal	Connection	Voltage	Grounding	Pluggable	Monitoring	Description	Order #				
Discrete	Screw	<55 Vp Core-ground	Direct	<div style="background-color: #FFC0CB; width: 20px; height: 20px; display: inline-block;"></div>	<div style="background-color: #A9C9E9; width: 20px; height: 20px; display: inline-block;"></div>	CN-LAMBDA/4-0.47-BB	2800021				
		<18 Vp Core-ground	Direct			CN-LAMBDA/4-2.25-BB	2801057				
		<11 Vp Core-ground	Direct			CN-LAMBDA/4-5.9-BB	2838490				
		280 DC	Direct			CN-UB-280DC-3-BB	2801050				
Ethernet surge protection (DT)											
Signal	Connection	Voltage	Grounding	Pluggable	Monitoring	Description	Order #				
Discrete	RJ45	<3.3 V DC	Direct	<div style="background-color: #FFC0CB; width: 20px; height: 20px; display: inline-block;"></div>	<div style="background-color: #A9C9E9; width: 20px; height: 20px; display: inline-block;"></div>	DT-LAN-CAT.6+	2881007				
		12 V DC	Direct			DT-UFB-485/BS	2920612				
		185 V DC/130 V AC	Direct			DT-TELE-SHDSL	2801593				
		185 V DC/130 V AC	Direct			DT-TELE-RJ45	2882925				
	D-SUB	15 V DC/10 V AC	Direct			DT-UFB-V24/S-9-SB	2803069				
		5.8 V DC	Direct			DT-UFB-IB-RB0	2800056				

Circuit Breakers

Technical Service (800) 890-2820 ext.1 • techsupport@phoenixcontact.ca

Table shown below are the most common units. For more options and accessories please visit www.phoenixcontact.ca

TMC 8: UL 489-listed circuit breakers		
Ampere rating	Description	Order #
1	TMC 81B 01A	2907478
2	TMC 81B 02A	2907479
5	TMC 81B 05A	2907482
20	TMC 81B 20A	2907492
1	TMC 81C 01A	2907558
2	TMC 81C 02A	2907559
3	TMC 81C 03A	2907560
4	TMC 81C 04A	2907561
5	TMC 81C 05A	2907562
6	TMC 81C 06A	2907563
10	TMC 81C 10A	2907566
15	TMC 81C 15A	2907571
20	TMC 81C 20A	2907573
1	TMC 81D 01A	2907626
2	TMC 81D 02A	2907627
4	TMC 81D 04A	2907629
5	TMC 81D 05A	2907630
7	TMC 81D 07A	2907632
8	TMC 81D 08A	2907633
15	TMC 81D 15A	2907638
1	TMC 82C 01A	2907582
3	TMC 82C 03A	2907585
5	TMC 82C 05A	2907587
6	TMC 82C 06A	2907588
10	TMC 82C 10A	2907591
15	TMC 82C 15A	2907594
15	TMC 82D 15A	2907662
2	TMC 83C 02A	2907608
3	TMC 83C 03A	2907609
5	TMC 83C 05A	2907611
10	TMC 83C 10A	2907615
15	TMC 83C 15A	2907618

1 Pole



2 Pole



3 Pole



TMC 7: UL 1077-recognized circuit breakers		
Ampere rating	Description	Order #
1	TMC 71B 01A	1011962
5	TMC 71B 05A	1019912
10	TMC 71B 10A	1019916
16	TMC 71B 16A	1019920
1	TMC 71C 01A	1019972
2	TMC 71C 02A	1019973
3	TMC 71C 03A	1019974
4	TMC 71C 04A	1019975
5	TMC 71C 05A	1019976
6	TMC 71C 06A	1019977
7	TMC 71C 07A	1019978
8	TMC 71C 08A	1019979
10	TMC 71C 10A	1019980
15	TMC 71C 15A	1019983
20	TMC 71C 20A	1019985
30	TMC 71C 30A	1019987
63	TMC 71C 63A	1019992
50	TMC 71D 50A	1020057
63	TMC 71D 63A	1020059
5	TMC 72B 05A	1019934
8	TMC 72B 08A	1019937
2	TMC 72C 02A	1019995
3	TMC 72C 03A	1019996
4	TMC 72C 04A	1019997
5	TMC 72C 05A	1019998
6	TMC 72C 06A	1019999
7	TMC 72C 07A	1020000
10	TMC 72C 10A	1020002
15	TMC 72C 15A	1020005
20	TMC 72C 20A	1020007
10	TMC 72D 10A	1020069
1	TMC 73D 01A	1020082

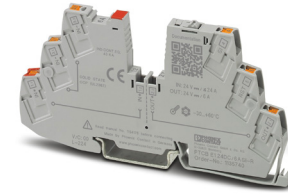
1 Pole



2 Pole



3 Pole



Single channel electronic circuit breakers (**NEC Class2)

Amp	Description	Order #
1-3 A	PTCB E1 24DC/1-3A NO **	2909909
1-4 A	PTCB E1 24DC/1-4A NO	2908261
1-4 A	PTCB E1 24DC/1-4A SI-R **	1135753
1-8 A	PTCB E1 24DC/1-8A NO	2908262
1-8 A	PTCB E1 24DC/1-8A SI-R	1135752
1 A	PTCB E1 24DC/1A NO **	2909902
1 A	PTCB E1 24DC/1A SI-R **	1135751
2 A	PTCB E1 24DC/2A NO **	2909903
2 A	PTCB E1 24DC/2A SI-R **	1135749
3 A	PTCB E1 24DC/3A NO **	2909904
4 A	PTCB E1 24DC/4A NO	2909906
4 A	PTCB E1 24DC/4A SI-R **	1135745
6 A	PTCB E1 24DC/6A NO	2909908
6 A	PTCB E1 24DC/6A SI-R	1135740
8 A	PTCB E1 24DC/8A NO	2909910
8 A	PTCB E1 24DC/8A SI-R	1135734

CBMC



CBM



Electronic circuit breakers module (Class I, Div 2)

Channels	Amp	Function	Description	Order #
4	0.5-10A	Full feature/function model	CBM E4 24DC/0.5-10A NO-R	2905743
8	0.5-10A	Full feature/function model	CBM E8 24DC/0.5-10A NO-R	2905744

Electronic circuit breakers module compact (**NEC Class2)

Channels	Amp	Function	Description	Order #
4	1-4A	Remote reset version	CBMC E4 24DC/1-4A S-R**	1065727
4	1-10A	Remote reset version	CBMC E4 24DC/1-10A S-R	1065729
4	1-4A	Status output version	CBMC E4 24DC/1-4A NO**	2906031
4	1-10A	Status output version	CBMC E4 24DC/1-10A NO	2906032
4	1-4A	I/O link version	CBMC E4 24DC/1-4A+ IOL**	2910410
4	1-10A	I/O link version	CBMC E4 24DC/1-10A IOL	2910411
4	1-8A	Galvanically isolated version	CBMC EG4 24DC/1-8A NO	1065730

Modular Terminal Blocks

CLIPLINE complete: all connection methods – one system

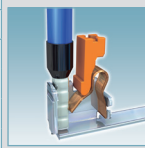
Complete flexibility: terminal blocks with different connection technologies can be freely combined

Cost savings, thanks to uniform bridging, marking, and test accessories



■ What connection style best fits your application?	■ Will you be bridging terminals?
■ What wire size are you using? What is your current (Amps) requirement?	■ Resulting Phoenix Contact order #
■ How many connection points?	□ What accessories are needed?
■ How many end covers are needed?	

Push-in (PT)					Accessories				
AWG	I_max	Connections	Description	Order #	Cover	Bridge (2-position)	Screwdriver	Marking	
								Side	Top
26-14	15	2	PT 1.5/S	3208100	3208142	3213014	1204504	0829486	0829484
	—		PT 1.5/S PE	3208139					
	15	3	PT 1.5/S-TWIN	3208155	3208184				
	15	4	PT 1.5/S-QUATTRO	3208197	3208375				
26-12	20	2	PT 2.5	3209510	3030417	3030161	1204517	0828744	0828734
	—		PT 2.5-PE	3209536					
	20	3	PT 2.5-TWIN	3209549	3030488				
	20	4	PT 2.5-QUATTRO	3209578	3030514				
	—		PTTB 2.5	3210567	3211634				
	—	—	PTTB 2.5-PE	3210596					
24-10	30	2	PT 4	3211757	3030420	3030336	1204517	0828746	0828736
	—		PT 4-PE	3211766					
	6.3		PT 4-HESI (5X20 FUSE)	3211861					
	6.3		PT 4-HESILED 24 (5X20 FUSE)	3211903					
	30	3	PT 4-TWIN	3211771	3208977				
	—		PT 4-QUATTRO	3211797	3208979				
	30	4	PTTB 4	3211786	3030462				
	—		PTTB 4-PE	3211854					
Screw clamp (UT)					Accessories				
26-12	20	2	UT 2.5	3044076	3047028	3030161	1212587	0828734	
	—		UT 2.5-PE	3044092					
	20	3	UT 2.5-TWIN	3044513	3047141				
	20		UT 2.5-QUATTRO	3044542	3047170				
	—	4	UTTB 2.5	3044636	3047293				
	—		UTTB 2.5-PE	3044665	3047293				
20	6	UT 2.5-3L	3214259	3214314					
—		UT 2.5-3PE	3214275						
26-10	30	2	UT 4	3044102	3047028	3030336	1212587	0828736	
	—		UT 4-PE	3044128					
	6.3	3	UT 4-HESI (5X20 FUSE)	3046032	—				
	6.3		UT 4-HESILED 24 (5X20 FUSE)	3046090	—				
	30	4	UT 4-TWIN	3044364	3047141				
	—		UT 4-QUATTRO	3044571	3047170				
30	4	UTTB 4	3044814	3047293					
—		UTTB4-PE	3044759						
26-8	50	2	UT-6	3044131	3047028	3030284	1205066	0828740	
	—		UT6-PE	3044157					
Spring cage (ST)					Accessories				
28-12	20	2	ST 2.5	3031212	3030417	3030161	1204517	0828744	0828734
	20	4	ST 2.5-QUATTRO	3031306	3030514				
28-10	30	2	ST 4	3031364	3030420	3030336	1204517	0828746	0828736
	6.3	2	ST 4-HESILED 24 (5X20 FUSE)	3036547	—				
PTV (Push-in Vertical)					Accessories				
26-12	20	2	PTV 2.5	1078960	1088746	3030161	1204517	0828734	—
		2	PTV 2.5 PE	1078963					
		3	PTV 2.5 TWIN	1078966	1088747				
		4	PTV 2.5 QUATTRO	1078999	1078999				
20-10	16	2	PTV 4 HESILED 24	1088743	1079918	3030336		0828736	
Bolt connection (RT)					Accessories				
26-14	24	2	RT-3	3049013	3049097	3030336	1205053	0828740	See Marking Guide
26-10	41	2	RT-5	3049026	—	3030284	1205079	0829144	
14-2	125	2	RT-8	3049042	3049194	3005947	1205066	0829146	

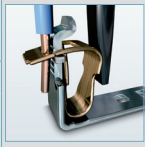


- Simple push-in spring ideal for solid and ferruled wires
- Tool-free termination
- 50 percent lower insertion force
- Orange pushbutton permits easy conductor release using any type of tool, without direct contact with live parts
- Uniformed Push-in Technology available on thousands of Phoenix Contact parts

Das Original
Push-in Technology[®]
Designed by PHOENIX CONTACT



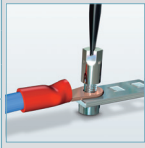
- Universal multi-wire connection with highest pullout force
- Save money with uniform bridging, marking, and accessories as part of the Cipline Complete system
- Maintenance-free conductor connection with the Reakdyn[®] principle – there is no need to tighten the terminal block screws



- Standard spring for error-free vibration resistance
- Save money with uniform bridging, marking, and accessories



- No stripping, no crimping – simply cut the cable to length and make contact within seconds
- Save money with uniform bridging, marking, and accessories



- Captive hardware with a hinged cover delivers a safe termination
- Save money with uniform bridging, marking, and accessories

Disconnect zone:

- Standardized disconnect zones
- Accommodates connectors, such as fuse plugs, component connectors, and isolating plugs

Plug-in zone:

- Time-saving and modular configuration
- Standardized plug-in zone

Test plugs:

- Reliable contacting of the test plugs with a 4 mm diameter
- Modular pluggable test points

Fuse plugs:

- Pluggable 5x20 mm cartridge glass fuses
- Plugs available with LED indication
- Common markers between terminals and fuses

Plug-in bridging:

- Tool-free installation
- 2-50-position bridges
- Different color options available
- Common between termination types
- Removable teeth for skip bridging

Heavy-duty Connectors

Technical Service (800) 890-2820 ext.1 • techsupport@phoenixcontact.ca



Standard (Metal)

Evo (Plastic)



Rugged. Reliable. Ready.

Rock-solid performance, ready when you are.



Scan QR Code to access our online configurator for heavy-duty connectors.

Selector guide (Pick 4 Parts)

1	2	3	4
INSERT (M&F)	BASE	SLEEVE HOUSING	CABLE GLAND
	+		+
	+		

<input type="checkbox"/> How many poles do you need?
<input type="checkbox"/> What connection technology do you prefer?
<input type="checkbox"/> Gender (Male / Female)?
<input type="checkbox"/> Panel mounting with or without cover?
<input type="checkbox"/> Hood - top or lateral entry?

HEAVYCON STANDARD											
Poles	Technology	Socket (F)		Plug (M)		Panel Mounting Base		Hood - Top Entry		Hood - Lateral Entry	
		Order #	Description	Order #	Description	with cover	w/o cover	Low profile	High profile	Low profile	High profile
6 poles	Screw	1648128	HC-B 6-I-UT-F	1648115	HC-B 6-I-UT-M	1411319	1411318	1412574 (M20)	1412566 (M25)	1412570 (M20)	1412562 (M25)
	Push-in	1407727	HC-B 6-I-PT-F	1407728	HC-B 6-I-PT-M						
	Crimp	1648160	HC-B 6-I-CT-F	1648157	HC-B 6-I-CT-M						
10 poles	Screw	1648186	HC-B 10-I-UT-F	1648173	HC-B 10-I-UT-M	1411321	1411320	1412629 (M20)	1412605 (M32)	1412625 (M25)	1412600 (M25)
	Push-in	1407729	HC-B 10-I-PT-F	1407730	HC-B 10-I-PT-M						
	Crimp	1605569	HC-B 10-I-CT-F	1605624	HC-B 10-I-CT-M						
16 poles	Screw	1648241	HC-B 16-I-UT-F	1648238	HC-B 16-I-UT-M	1411325	1411324	1412730 (M32)	1412689 (M32)	1412726 (M32)	1412679 (M32)
	Push-in	1407731	HC-B 16-I-PT-F	1407732	HC-B 16-I-PT-M						
	Crimp	1648283	HC-B 16-I-CT-F	1648270	HC-B 16-I-CT-M						
24 poles	Screw	1648306	HC-B 24-I-UT-F	1648296	HC-B 24-I-UT-M	1411331 + 1414630	—	1412779 (M32)	1412754 (M32)	1412774 (M32)	1412750 (M32)
	Push-in	1407735	HC-B 24-I-PT-F	1407736	HC-B24-I-PT-M						
	Crimp	1648348	HC-B 24-I-CT-F	1648335	HC-B 24-I-CT-M						

HEAVYCON EVO											
Poles	Technology	Socket (F)		Plug (M)		Panel Mounting Base		Hood - Top and Lateral Entry			
		Order #	Description	Order #	Description	with cover	w/o cover	Low profile		High profile	
6 poles	Screw	1648128	HC-B 6-I-UT-F	1648115	HC-B 6-I-UT-M	1407622	1407621	1407619		1407620	
	Push-in	1407727	HC-B 6-I-PT-F	1407728	HC-B 6-I-PT-M						
	Crimp	1648160	HC-B 6-I-CT-F	1648157	HC-B 6-I-CT-M						
10 poles	Screw	1648186	HC-B 10-I-UT-F	1648173	HC-B 10-I-UT-M	1407633	1407632	1407626		1407627	
	Push-in	1407729	HC-B 10-I-PT-F	1407730	HC-B 10-I-PT-M						
	Crimp	1605569	HC-B 10-I-CT-F	1605624	HC-B 10-I-CT-M						
16 poles	Screw	1648241	HC-B 16-I-UT-F	1648238	HC-B 16-I-UT-M	1407647	1407646	1420931		1407642	
	Push-in	1407731	HC-B 16-I-PT-F	1407732	HC-B 16-I-PT-M						
	Crimp	1648283	HC-B 16-I-CT-F	1648270	HC-B 16-I-CT-M						
24 poles	Screw	1648306	HC-B 24-I-UT-F	1648296	HC-B 24-I-UT-M	1407661 + 1414630	—	1420935		1407657	
	Push-in	1407735	HC-B 24-I-PT-F	1407736	HC-B24-I-PT-M						
	Crimp	1648348	HC-B 24-I-CT-F	1648335	HC-B 24-I-CT-M						

ACCESSORIES - Cable Gland

HEAVYCON STANDARD	
M20	1411163
M25	1411165
M32	1411166
M40	1411167

HEAVYCON EVO	
7-13mm	1407669 (M20 equivalent)
9-17mm	1407670 (M25 equivalent)
11-21mm	1407671 (M32 equivalent)
19-28mm	1407672 (M40 equivalent)

Connectors

Technical Service (800) 890-2820 ext.1 • techsupport@phoenixcontact.ca

A comprehensive range of M8, and M12 flush-type connectors and panel feed-through has emerged as a result of the various requirements for sensor/actuator device connection technology in industrial environments.

Customer-specific developments for assembly enable optimum adaptation to individual device concepts.

- 3 to 17 positions
- A, B, D or X coding
- Available in Screw, Insulation displacement, Push-in and Crimp connection



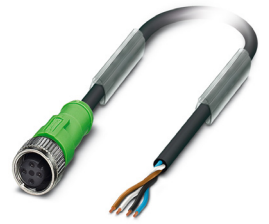
■ How many positions (wires) are required?	■ What is the cable diameter?
■ What is the connection type?	■ Resulting Phoenix Contact order #
■ What gender should the connectors be: female or male?	

M8						
	Positions	Connection Tech	Gender	Diameter	Description	Order #
3-position Female Male 	3-pos.	Screw	Male Straight	3.5...5 mm	SACC-M 8MS-3CON-M-SW	1501252
			Female Straight		SACC-M 8FS-3CON-M-SW	1506888
		Insulation Displacement	Male Straight	2.5...5 mm	SACC-M 8MS-3QO-0,25-M	1441008
			Female Straight		SACC-M 8FS-3QO-0,5-M	1441066
4-position Female Male 	4-pos.	Screw	Male Straight	3.5...5 mm	SACC-M 8MS-4CON-M	1681169
			Female Straight		SACC-M 8FS-4CON-M-SW	1506891
		Insulation Displacement	Male Straight	3.5...5 mm	SACC-M 8MS-4QO-0,5-M	1441037
			Female Straight		2.5...5 mm	SACC-M 8FS-4QO-0,5-M

M12							
	Positions	Connection Tech	Head	Diameter	Description	Order #	
4-position Female 4-position Male 	4-pos.	Screw	Male Straight	4...6 mm	SACC-M12MS-4CON-PG 7-M	1662528	
			Male Angled		SACC-M12MR-4CON-PG7-M	1681101	
			Female Straight		SACC-M12FS-4CON-PG7-M	1681127	
			Female Angled		SACC-M12FR-4CON-PG7-M	1681143	
		Insulation Displacement	Male Straight	4...8 mm	SACC-M12MS-4QO-0,75-M	1641785	
			Female Straight		SACC-M12FS-4QO-0,75-M	1641772	
			Push-In	Male Straight	4...8 mm	SACC-MS-4PL M SCO	1424657
				Male Angled		SACC-M12MR-4PL M	1424654
5-position Female 5-position Male 	5-pos.	Screw	Male Straight	4...6 mm	SACC-M12MS-5CON-PG 7-M	1663116	
			Male Angled	6...8 mm	SACC-M12MS-5CON-PG 9-M	1681460	
			Female Straight	4...6 mm	SACC-M12FS-5CON-PG 7-M	1662968	
			Female Angled	SACC-M12FR-5CON-PG 7-M	1662984		
			Push-In	Male Straight	4...8 mm	SACC-M12MS-5PL M	1424649
		Male Angled		SACC-M12MR-5PL M		1424651	
		Female Straight		SACC-M12FS-5PL M		1424652	
		Female Angled		SACC-M12FR-5PL M		1424653	
		Female Straight		SACC-M12FS-8CON-PG9-M		1513347	
		8-position Female 8-position Male 	8-pos.	Screw	Female Straight	6...8 mm	SACC-M12MS-8CON-PG9-M
Male Straight							

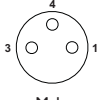
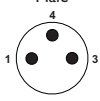
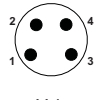
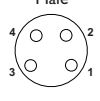
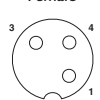
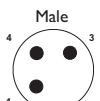
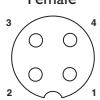
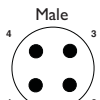
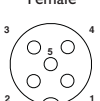
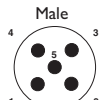
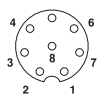
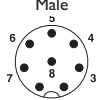
Cordsets

Technical Service (800) 890-2820 ext.1 • techsupport@phoenixcontact.ca



■	What thread size do you need on your cordset: M8 or M12?
■	How many positions (wires) are required?
■	What gender should the connectors be: female or male?
■	Is the head orientation straight or right angle?
■	What is the desired cordset length?
■	Resulting Phoenix Contact order # (shielded and non-shielded)
■	Select CMAT: Allows you to configure cable type/length (Enter into extranet tool)
■	Do you need a mating front- or rear-mount receptacle with that cordset?

**Locknut not included with front mount. M8 locknuts (8 mm) = 1504071. M12 locknuts (16 mm) = 1504097

M8											
	Positions	Gender	Head orientation	Length	Non-shielded PUR jacket part #	Non-shielded CMAT #	Shielded PUR jacket Part #	Shielded CMAT #	Front-mount receptacle	Rear-mount receptacle	
3-position Female  Male 	3-pos.	Male/Female	Straight	1.5 m	1681923	1405935	1455285	1405828	1500350	1453449	
		Female	Straight	5 m	1669628	1405956	1521737	1405834	1500350	1453449	
			Right angle		1669631	1405957	1521782	1405835	1500350	1453449	
		Male	Straight	10 m	1681680	1405939	1521630	1405830	1500334	1453478	
			Right angle		1681716	1405944	1521685	1405833	1500334	1453478	
		Female	Straight	10 m	1694101	1405956	1521740	1405834	1500350	1453449	
		Right angle	1694169		1405957	1521795	1405835	1500350	1453449		
	Male	Straight	10 m	1693584	1405939	1521643	1405830	1500334	1453478		
		Right angle		1694114	1405944	1521698	1405833	1500334	1453478		
	4-position Female  Male 	4-pos.	Male/Female	Straight	1.5 m	1682168	1405902	1455735	1405810	1500363	1453452
			Female	Straight	5 m	1681868	1405923	1521931	1405822	1500363	1453452
				Right angle		1681897	1405924	1521986	1405823	1500363	1453452
Male			Straight	10 m	1681800	1405906	1521834	1405818	1500347	1452481	
			Right angle		1681839	1405911	1521889	1405821	1500347	1452481	
Female			Straight	10 m	1683484	1405923	1521944	1405822	1500363	1453452	
		Right angle	1694172		1405924	1521999	1405823	1500363	1453452		
Male		Straight	10 m	1694143	1405906	1521847	1405818	1500347	1452481		
		Right angle		1694156	1405911	1521892	1405821	1500347	1452481		
M12											
		Positions	Gender	Head orientation	Length	Non-shielded PUR jacket part #	Non-shielded CMAT #	Shielded PUR jacket Part #	Shielded CMAT #	Front-mount receptacle	Rear-mount receptacle
3-position Female  Male 		3-pos.	Male/Female	Straight	1.5 m	1681525		1500826			
	Female		Straight	5 m	1683510	1405947	1682809	1405927	1523434	1419632	
			Right angle		1694525	1405959	1682838	1405934	1523434	1419632	
	Male		Straight	10 m	1668030	1405949	1682676	1405929	1523450	1419629	
			Right angle		1668153	1405955	1682702	1405932	1523450	1419629	
	Female		Straight	10 m	1693034	1405958	1500680	1405933	1523434	1419632	
		Right angle	1694538		1405959	1500693	1405934	1523434	1419632		
	Male	Straight	10 m	1682566	1405949	1500664	1405929	1523450	1419629		
		Right angle		1694444	1405955	1500677	1405932	1523450	1419629		
	4-position Female  Male 	4-pos.	Male/Female	Straight	1.5 m	1668373		1500868			
			Female	Straight	5 m	1668124	1405925	1682867	1405900	1523434	1419632
				Right angle		1668247	1405926	1682922	1405901	1523434	1419632
Male			Straight	10 m	1668069	1405916	1682647	1405896	1523450	1419629	
			Right angle		1668182	1405922	1682896	1405899	1523450	1419629	
Female			Straight	10 m	1683002	1405925	1500716	1405900	1523434	1419632	
		Right angle	1681389		1405926	1500729	1405901	1523434	1419632		
Male		Straight	10 m	1682993	1405916	1694389	1405896	1523450	1419629		
		Right angle		1694457	1405922	1500703	1405899	1523450	1419629		
5-position Female  Male 		5-pos.	Male/Female	Straight	1.5 m	1681606	1405886	1500907	1405877	1520039	1419658
			Female	Straight	5 m	1669848	1405892	1682951	1405884	1520039	1419658
				Right angle		1669877	1405893	1682980	1405885	1520039	1419658
	Male		Straight	10 m	1669783	1405888	1682731	1405879	1520055	1419645	
			Right angle		1669819	1405891	1682773	1405883	1520055	1419645	
	Female		Straight	10 m	1683374	1405886	1500758	1405877	1520039	1419658	
		Right angle	1694541		1405892	1500761	1405884	1520039	1419658		
	Male	Straight	10 m	1683361	1405893	1500732	1405885	1520055	1419645		
		Right angle		1694460	1405888	1500745	1405879	1520055	1419645		
	8-position Female  Male 	8-pos.	Male/Female	Straight	1.5 m	1522697	1405891	1522985	1405883	1520039	1419658
			Female	Straight	5 m	1520369	1405851	1522888	1405843	1523276	1419690
				Right angle		1522642	1405852	1522930	1405844	1523276	1419690
Male			Straight	10 m	1522516	1405847	1526981	1405839	1523292	1419687	
			Right angle		1522561	1405850	1522833	1405842	1523292	1419687	
Female			Straight	10 m	1520372	1405851	1522891	1405843	1523276	1419690	
		Right angle	1522655		1405852	1522943	1405844	1523276	1419690		
Male		Straight	10 m	1522529	1405847	1522794	1405839	1523292	1419687		
		Right angle		1522574	1405850	1522846	1405842	1523292	1419687		

Interposing Relays

Technical Service (800) 890-2820 ext.1 • techsupport@phoenixcontact.ca

<ul style="list-style-type: none"> ■ What application or load are you switching: electromechanical or solid state? ■ What connection technology: screw terminal (UT) or push-in (PT)? 	<ul style="list-style-type: none"> ■ What is the input-coil voltage: DC or AC? ■ Which kind of specialty relays: hazardous location, sensor/actuator, filter base?
<ul style="list-style-type: none"> ■ What is your output current (Amps)? (Ratings are for resistive loads) ■ How many sets of contacts do you need: SPDT, DPDT, etc.? 	<ul style="list-style-type: none"> ■ Resulting Phoenix Contact order #

Electromechanical relays: PLC Series						
Input-coil voltage	Output current	Sets of contacts	Termination style	Description	Order #	
12 V DC	6 A	SPDT - 6.2 mm	Screw	PLC-RSC-12 DC/21	2966906	PLC relay assembly with electromechanical relay
			Push-in	PLC-RPT-12 DC/21	2900316	
		DPDT - 14 mm	Screw	PLC-RSC-12 DC/21-21	2967235	
			Push-in	PLC-RPT-12 DC/21-21	2900329	
24 V DC	50 mA	SPDT - 6.2 mm	Screw	PLC-RSC-24 DC/21AU	2966265	
			Push-in	PLC-RPT-24 DC/21AU	2900306	
	6 A	SPDT - 6.2 mm	Screw	PLC-RSC-24 DC/21	2966171	
			Push-in	PLC-RPT-24 DC/21	2900299	
	DPDT - 14 mm	Screw	PLC-RSC-24 DC/21-21	2967060		
		Push-in	PLC-RPT-24 DC/21-21	2900330		
10 A	SPDT - 14 mm	Screw	PLC-RSC-24 DC/21HC	2967620		
		Push-in	PLC-RPT-24 DC/21HC	2900291		
24 V AC or DC	6 A	SPDT - 6.2 mm	Screw	PLC-RSC-24UC/21	2966184	
			Push-in	PLC-RPT-24UC/21	2900300	
		DPDT - 14 mm	Screw	PLC-RSC-24UC/21-21	2967073	
			Push-in	PLC-RPT-24UC/21-21	2900332	
120 V AC or DC	6 A	SPDT - 6.2 mm	Screw	PLC-RSC-120UC/21	2966197	
			Push-in	PLC-RPT-120UC/21	2900304	
		DPDT - 14 mm	Screw	PLC-RSC-120UC/21-21	2967086	
			Push-in	PLC-RPT-120UC/21-21	2900335	



Solid-state relays: PLC Series						
Input-coil voltage	Output current	Sets of contacts	Termination style	Description	Order #	
5 V DC	3 A	NO ONLY - 6.2 mm	Screw	PLC-OSC-5 DC/24 DC/2/ACT	2980144	PLC Relay Assembly with Solid State Relay
			Push-in	PLC-OPT-5 DC/24 DC/2/ACT	2900375	
24 V DC	100 mA	NO ONLY - 6.2 mm	Screw	PLC-OSC-24 DC/ 48 DC/100	2966728	
			Push-in	PLC-OPT-24 DC/ 48 DC/100	2900352	
	3 A	NO ONLY - 6.2 mm	Screw	PLC-OSC-24 DC/ 24 DC/2	2966634	
			Push-in	PLC-OPT-24 DC/24 DC/2	2900364	
120 V AC or DC	3 A	NO ONLY - 6.2 mm	Screw	PLC-OSC-120UC/24 DC/2	2966650	
			Push-in	PLC-OPT-120UC/24 DC/2	2900355	



Note: AC outputs also available

Triple-rated, hazardous-location relays (more options available, please enquire)						
Input-coil voltage	Output current	Sets of contacts	Termination style	Description	Order #	
12 V DC	6 A	SPDT - 6.2 mm	Screw	PLC-RSC-12 DC/21/EX	2909522	
			Push-in	PLC-RSC-12 DC/21-21/EX	2909517	
24 V DC	10 A	SPDT - 14 mm	Screw	PLC-RSC-12 DC/21/HC/EX	2909518	
			Push-in	PLC-RSC-12 DC/21/HC/EX	2909518	
	6 A	SPDT - 6.2 mm	Screw	PLC-RSC-24 DC/21/EX	2909524	
			Push-in	PLC-RPT-24 DC/21/EX	2909528	
DPDT - 14 mm	Screw	PLC-RSC-24 DC/21-21/EX	2909509			
	Push-in	PLC-RPT-24 DC/21-21/EX	2909514			
120 V AC or DC	10 A	SPDT - 14 mm	Screw	PLC-RSC-24 DC/21/HC/EX	2909519	
			Push-in	PLC-RPT-24 DC/21/HC/EX	2909532	
	6 A	SPDT - 6.2 mm	Screw	PLC-RSC-120UC/21/EX	2909525	
			Push-in	PLC-RPT-120UC/21/EX	2909511	
10 A	DPDT - 14 mm	Screw	PLC-RSC-120UC/21-21/EX	2909511		
		Push-in	PLC-RPT-120UC/21-21/EX	2909520		

Note: Additional coil voltages and connection technology options are available

Specialty						
Input-coil voltage	Output current	Sets of contacts	Termination style	Description	Order #	
24 V DC	6 A	NO ONLY - 6.2 mm	Screw	PLC-RSC-24 DC/ 1/ACT	2966210	
			Push-in	PLC-RSC-24 DC/ 1AU/SEN	2966317	
120 V AC/DC	6 A	SPDT - 6.2 mm	Screw	PLC-RSC-120UC/21/SO46	5603593	

Note: Other specialty relays available (manual switch, force-guided, filter, high-density, DC motor control, etc.)

Replacement parts						
Mechanical relays						
Input-coil voltage	Output current	Sets of contacts		Description	Order #	
12 V DC	6 A	SPDT - 6.2 mm		REL-MR-12 DC/21	2961150	
24 V DC	6 A	SPDT - 6.2 mm		REL-MR-24 DC/21	2961105	
		DPDT - 14 mm		REL-MR-24 DC/21-21	2961192	
	10 A	SPDT - 14 mm		REL-MR-24 DC/21HC	2961312	
120 V AC	6 A	SPDT - 6.2 mm		REL-MR-60 DC/21	2961118	
120 V AC	6 A	DPDT - 14 mm		REL-MR-110 DC/21-21	2961202	
Solid-state relays						
5 V DC	3 A	SPST - 6.2 mm		OPT-5 DC/24 DC/2	2967989	
24 V DC	3 A	SPST - 6.2 mm		OPT-24 DC/24 DC/2	2966595	
120 V AC	3 A	SPST - 6.2 mm		OPT-60 DC/24 DC/2	2966605	

Potential Distribution
2966508 - PLC-ESK GY

Adaptors and system cabling
V8 adaptor: 2295554 - PLC-V8/FLK14/OUT
System cable 1m: 2305253 - CABLE-FLK14/OE/0,14/100

Terminal marking
6.2 mm wide: 0828736
14 mm: 0829144

Wide range of solutions
Over 600 standard and specialty relay solutions

Partition plate
2966841 - PLC - ATP-BK

PLC relay bridging

Easily bridge relays together with plug-in bridging – no tools required. Available in 2 positions, or in continuous pieces for cutting to custom length

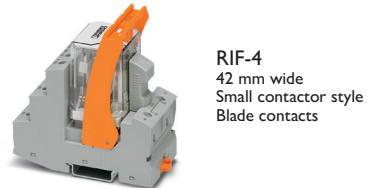
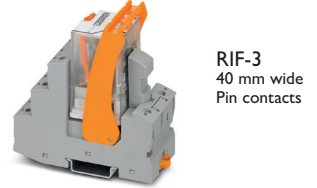
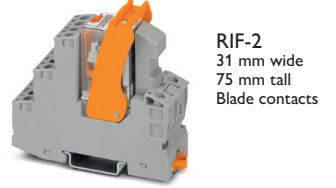
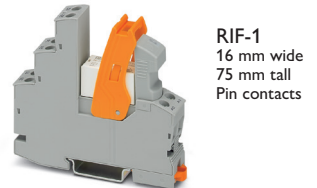
Color	2-pos	500 mm
Red	2966236	2966786
Blue	2966812	2966692
Gray	2966825	2966838

General Purpose and Ice-cube Relays

Technical Service (800) 890-2820 ext.1 • techsupport@phoenixcontact.ca

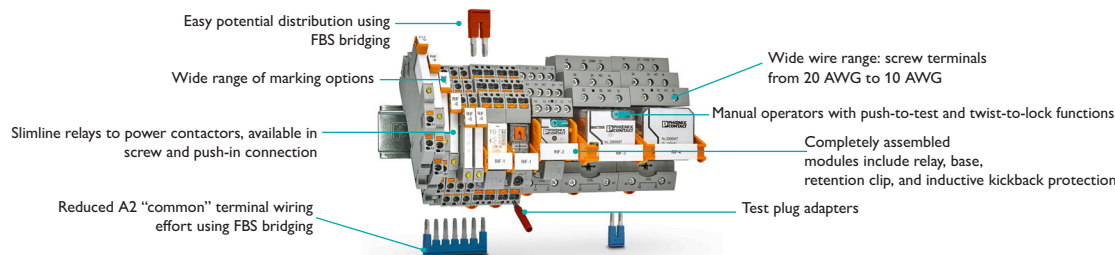
<p>■ What application or load are you switching: electromechanical or solid state?</p> <p>■ What is the input coil voltage: DC or AC?</p> <p>■ What is your output current (Amps)?</p>	<p>■ How many sets of contacts do you need? SPDT, DPDT, etc.</p> <p>■ Which connection technology: Screw terminal (UT) or Push-in (PT)?</p> <p>■ Resulting Phoenix Contact order #</p>
---	---

Electromechanical relays: RIFLINE						
	Input voltage	Output current	Sets of contacts	Termination style	Description	Order #
RIF-0	12 V DC	6 A	NO only	Screw Push-in	RIF-0-RSC-12DC/ 1 RIF-0-RPT-12DC/ 1	2903367 2903362
	24 V DC	6 A	NO only	Screw Push-in	RIF-0-RSC-24DC/ 1 RIF-0-RPT-24DC/ 1	2903366 2903361
RIF-1	12 V DC	11 A	SPDT	Screw	RIF-1-RSC-LDP-12DC/1X21	2908500
				Push-in	RIF-1-RPT-LDP-12DC/1X21	2906224
		8 A	DPDT	Screw	RIF-1-RSC-LDP-12DC/2X21	2908501
				Push-in	RIF-1-RPT-LDP-12DC/2X21	2906223
	24 V DC	11 A	SPDT	Screw	RIF-1-RSC-LDP-24DC/1X21	2903358
				Push-in	RIF-1-RPT-LDP-24DC/1X21	2903342
		8 A	DPDT	Screw	RIF-1-RSC-LDP-24DC/2X21	2903350
				Push-in	RIF-1-RPT-LDP-24DC/2X21	2903334
		50 mA	SPDT	Screw	RIF-1-RSC-LDP-24DC/1X21AU	2903354
				Push-in	RIF-1-RPT-LDP-24DC/2X21AU	2903330
120 V AC	10 A	SPDT	Screw	RIF-1-RSC-LV-120AC/1X21	2903356	
			Push-in	RIF-1-RPT-LV-120AC/1X21	2903340	
8 A	DPDT	Screw	RIF-1-RSC-LV-120AC/2X21	2903348		
		Push-in	RIF-1-RPT-LV-120AC/2X21	2903332		



Electromechanical ice-cube relays: RIFLINE						
	Input voltage	Output current	Sets of contacts	Termination style	Description	Order #
RIF-2	24 V DC	10 A	2PDT	Screw Push-in	RIF-2-RSC-LDP-24DC/2X21 RIF-2-RPT-LDP-24DC/2X21	2903326 2903315
		6 A	4PDT	Screw Push-in	RIF-2-RSC-LDP-24DC/4X21 RIF-2-RPT-LDP-24DC/4X21	2903320 2903308
	120 V AC	8.5 A	2PDT	Screw	RIF-2-RSC-LV-120AC/2X21	2903322
				Push-in	RIF-2-RPT-LV-120AC/2X21	2903311
		6 A	4PDT	Screw	RIF-2-RSC-LV-120AC/4X21	2903319
				Push-in	RIF-2-RPT-LV-120AC/4X21	2903305
RIF-3	24 V DC	8.5 A	3PDT	Screw Push-in	RIF-3-RSC-LDP-24DC/3X21 RIF-3-RPT-LDP-24DC/3X21	2903300 2903294
	120 V AC	6 A	3PDT	Screw Push-in	RIF-3-RSC-LV-120AC/3X21 RIF-3-RPT-LV-120AC/3X21	2903299 2903293
RIF-4	24 V DC	10 A	3PDT	Screw	RIF-4-RSC-LDP-24DC/3X21	2903288
				Push-in	RIF-4-RPT-LDP-24DC/3X21	2903278
	120 V AC	8 A	3PDT	Screw Push-in	RIF-4-RSC-LV-120AC/3X21 RIF-4-RPT-LV-120AC/3X21	2903287 2903277

Note: Many additional contact arrangement and coil voltage options exist.



Electromechanical ice-cube relays: ECOR Series					
	Input voltage	Output current	Sets of contacts	Description	Order #
ECOR 1 Relay plugs	12V DC	16A	1PDT	REL-MR-BL- 12DC/21HC	1109537
	24 V DC	16A	1PDT	REL-MR-BL- 24DC/21HC	2906285
	24 V AC	16A	1PDT	REL-MR-BL- 24AC/21HC	1109540
	115 V AC	16A	1PDT	REL-MR-BL-115AC/21HC	1109542



Accessories			
		Description	Order #
ECOR 1	Base (screw terminals)	ECOR-1-BSC3/2X21	2907518
	Bracket	ECOR-RH-1L	2907524
	LED (12-24 V AC)	LDP- 12- 24DC	2833657
	LED (120-230 V AC)	LV-120-230AC/110DC	2833738



Electromechanical ice-cube relays: ECOR Series					
	Input voltage	Output current	Sets of contacts	Description	Order #
ECOR 2 Relay plugs	24V DC	12A	2PDT	REL-IR-BL/L- 24DC/2X21	1032526
	115 V AC	12A	2PDT	REL-IR-BL/L-115AC/2X21	1109556
	24 V DC	6A	4PDT	REL-IR-BL/L- 24DC/4X21	1032527
	24 V AC	6A	4PDT	REL-IR-BL/L- 24AC/4X21	1109563
	115 V AC	6A	4PDT	REL-IR-BL/L-115AC/4X21	1109564



Accessories			
		Description	Order #
ECOR 2	Base (screw terminals)	ECOR-2-BSC3/4X21	2907521
	Bracket	ECOR-RH-2L	1051972



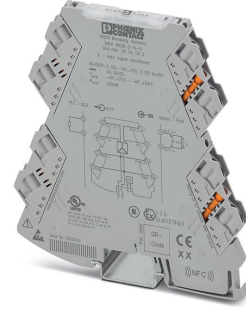
Note: Rated current values are for standalone relay plugs only. When assembled onto the base, value will default to lowest rated current between the base and plug.

Signal Conditioners

Technical Service (800) 890-2820 ext.1 • techsupport@phoenixcontact.ca

■ What type of conversion and/or isolation do you need?				
■ What is the module power? (Standard is module powered by separate 24 V DC)				
■ What is your input signal?				
■ What is the output signal?				
■ Resulting Phoenix Contact order #				
Fixed signal conversion and isolation				
Module power	Input signal	Output signal	Description	Order #
Line	0-10 V DC	0-10 V DC	MINI MCR-2-U-U	2902042
		Active 4-20 mA	MINI MCR-2-U-I4	2902029
	Active 4-20 mA	0-10 V DC	MINI MCR-2-I4-U	2902002
		Active 4-20 mA	MINI MCR-2-I-I	2901998
Universal and configurable analog signal conversion and isolation				
Module power	Input signal	Output signal	Description	Order #
Line	Active/universal	Active/universal	MINI MCR-2-UI-UI	2902037
	Active/universal	Active/universal/relay out	MINI MCR-2-UNI-UI-UIRO	2902026
Temperature signal conversion and isolation				
Module power	Input signal	Output signal	Description	Order #
Line	PT100	Common analog	* MINI MCR-SL-PT100-UI-NC	2864273
	RTD	Universal analog	MINI MCR-2-RTD-UI	2902049
	Thermocouple	Universal analog	MINI MCR-2-TC-UI	2902055
	Universal temperature	N.O. relay set point	MINI MCR-2-T-REL	2905632
Loop	PT100	Common analog	MINI MCR-SL-PT100-LP-NC	2810308
Low-power signal conversion and isolation				
Module power	Input signal	Output signal	Description	Order #
Loop	Active 4-20 mA	Passive 4-20 mA	MINI MCR-2-I-I-ILP	2901994
			MINI MCR-2-2I-2I-ILP	2901996
	Active universal analog	Active 4-20 mA	MINI MCR-2-UI-I-OLP	2902061
	Passive 4-20 mA		MINI MCR-2-RPS-I-I-OLP	2906446
			MINI MCR-2-RPS-2I-2I-OLP	2906448
Specialty signal conversion and isolation				
Module power	Input signal	Output signal	Description	Order #
Line	4-20 mA/HART	2x 4-20mA/HART	MINI MCR-2-RPSS-I-2I	2905628
	Analog	Frequency and set point	MINI MCR-2-UI-FRO	2902031
	Frequency and PWM	Active 4-20 mA	MINI MCR-2-F-UI	2902056
	Load cell/strain gage	4-20 ma/0-10 V	MCR-SGA-4/6-DC	5604058
	Potentiometer	Active 4-20 mA	MINI MCR-2-POT-UI	2902016
	Universal analog	2x 4-20 mA	MINI MCR-2-UI-2I-NC	2905026
	Universal analog	Set point/relay out	MINI MCR-2-UI-REL	2902033
HART				
Module power	Input signal	Output signal	Description	Order #
Line	4-20 mA/HART	4-20 mA/HART	MINI MCR-2-RPSS-I-I	2902014

MINI MCR-2



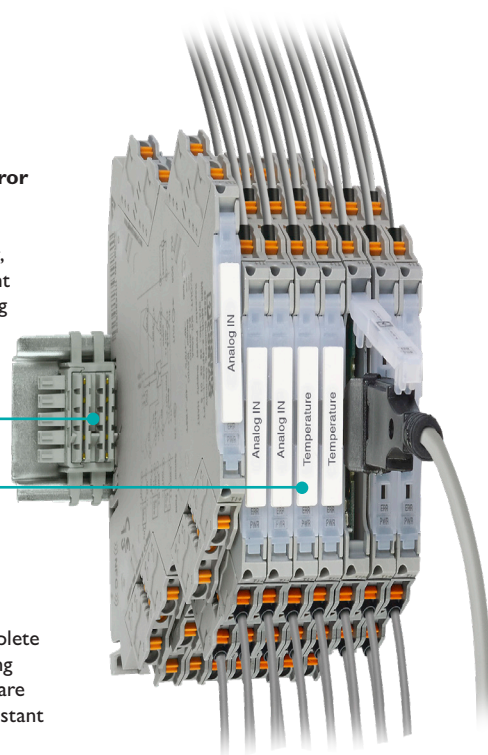
MINI MCR-SL



* MINI MCR-SL-PT100-UI-NC

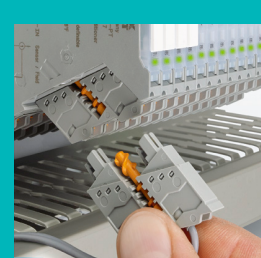
Rapid power bridging and group error messaging

In addition to rapid power bridging, the DIN rail connector also simplifies wiring, system extension or module replacement during operation. Group error messaging enables convenient diagnostics.



Service-friendly

Large-surface marking areas enable complete loop identification using standard marking material. All status and error indicators are always visible and provide you with an instant overview on site.



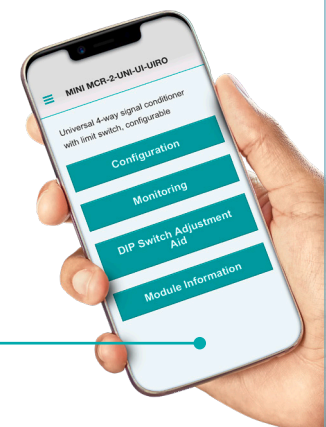
Easily accessible terminal points and FASTCON Pro plug-in connection terminal blocks



Measure signals during operation, without disconnecting the current loops.

Smart parameterization and monitoring


Depending on the product type, you can access the devices wirelessly: via NFC and Bluetooth. Benefit from the comprehensive functions of the MINI Analog Pro app and parameterize the modules directly on site, or read the current measured values during operation



M8/M12 Distributor Boxes

Technical Service (800) 890-2820 ext.1 • techsupport@phoenixcontact.ca

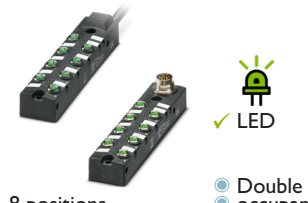
M8 Metal thread



8 positions

✓ LED

● Single occupancy



8 positions

✓ LED

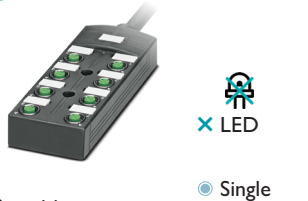
● Double occupancy

Master cables	Cable glands	Connectors	Master cables	Cable glands	Connectors
1197232 (5m)	✗	✗	1197314 (5m)	✗	1166980 (M16)
1197236 (10m)			1197314 (5m)		1166980 (M16)

Use distributor boxes for quick and clear cabling in the field. Distributor boxes bundle several cables into one master cable that is connected to the controller. Thanks to the status indicator, you have an overview of a large number of signals.

- ✓ Increased machine availability, thanks to easy diagnostics
- ✓ Safety in the field, thanks to molded housing and high degree of protection
- ✓ Flexible cabling, thanks to the wide product range and various master cable connections


M12 Metal thread



8 positions

✗ LED


● Single occupancy



8 positions

✗ LED


● Double occupancy



8 positions

✓ LED

● Single occupancy




8 positions

✓ LED

● Double occupancy

Master cables	Cable glands	Connectors	Master cables	Cable glands	Connectors	Master cables	Cable glands	Connectors	Master cables	Cable glands	Connectors
1517042 (5m)	1516881	✗	1517068 (5m)	1516894	✗	1517165 (5m)	1516823	✗	1517181 (5m)	1516836	✗
1517055 (10m)			1517071 (10m)			1517178 (10m)			1517194 (10m)		


M12 Plastic thread



8 positions

✗ LED


● Single occupancy



8 positions

✗ LED


● Double occupancy



8 positions

✓ LED

● Single occupancy



8 positions


✓ LED

● Double occupancy


Master cables	Cable glands	Connectors	Master cables	Cable glands	Connectors	Master cables	Cable glands	Connectors	Master cables	Cable glands	Connectors
1452518 (5m)	1452783	✗	1452547 (5m)	1452796	1692844 (M23)	1452699 (5m)	1452848	✗	1452725 (5m)	1452851	1692459 (M23)
1452521 (10m)			1452550 (10m)			1452709 (10m)			1452738 (10m)		

Accessories


Master cable ring
For sensor/actuator boxes




Cross section



Master cable
M23 plug connection



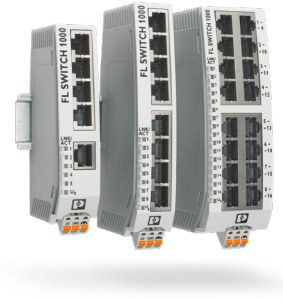
19 pos.



1503344	50m	PUR/PVC black	1684056	5m	PUR/PVC black
---------	-----	---------------	---------	----	---------------

Unmanaged Ethernet Switches

Technical Service (800) 890-2820 ext.1 • techsupport@phoenixcontact.ca



How many copper ports are required?				Is it installed in hazardous location?		
Are any speciality ports required?				Resulting Phoenix Contact order #		
What are the total number of ports?						
What speed is required?						
Switch 1000N						
Copper ports	Specialty ports	Total ports	Speed	Class I Div 2	Description	Order #
5		5	10/100	✓	FL SWITCH 1005N	1085039
5	2 SFP	7	10/100		FL SWITCH 1005N-2SFX	1085176
4	1 Fiber SC-D	5	10/100		FL SWITCH 1004N-FX	1084159
4	1 Fiber ST	5	10/100		FL SWITCH 1004N-FX ST	1085179
4	1 Single mode fiber SC	5	10/100		FL SWITCH 1004N-FX SM	1085214
4	1 SFP	5	10/100		FL SWITCH 1004N-SFX	1085177
8		8	10/100		FL SWITCH 1008N	1085256
16		16	10/100		FL SWITCH 1016N	1085255
Switch 1100N						
Copper ports	Specialty ports	Total ports	Speed	Class I Div 2	Description	Order #
4	1 SFP	5	10/100/1000	✓	FL SWITCH 1104N-SFP	1085173
5		5	10/100/1000		FL SWITCH 1105N	1085254
5	2 SFP	7	10/100/1000		FL SWITCH 1105N-2SFP	1085171
8		8	10/100/1000		FL SWITCH 1108N	1085243
16		16	10/100/1000		FL SWITCH 1116N	1085219
Switch 1000NT						
Copper ports	Specialty ports	Total ports	Speed	Class I Div 2	Description	Order #
5		5	10/100	✓	FL SWITCH 1005NT	1085170
8		8	10/100		FL SWITCH 1008NT	1085165
4	1 Fiber SFP	5	10/100		FL SWITCH 1004NT-SFX	1085169
5	2 Fiber SFP	7	10/100		FL SWITCH 1005NT-2SFX	1085164
12	2 Fiber SFP	14	10/100		FL SWITCH 1012NT-2SFP	1249598
Switch 1100NT						
Copper ports	Specialty ports	Total ports	Speed	Class I Div 2	Description	Order #
5		5	10/100/1000	✓	FL SWITCH 1105NT	1085163
8		8	10/100/1000		FL SWITCH 1108NT	1085162

Accessories			
Type	Compatible products	Description	Order #
DIN-RAIL	FL SWITCH 1005N FL SWITCH 1008N FL SWITCH 1105N FL SWITCH 1108N	FL DIN-RAIL ADAPTER 22.5	1085485
	FL SWITCH 1016N	FL DIN-RAIL ADAPTER 40	1085484
PANEL	FL SWITCH 1005N FL SWITCH 1008N FL SWITCH 1105N FL SWITCH 1108N	FL PANEL ADAPTER 22.5	1085488
	FL SWITCH 1016N	FL PANEL ADAPTER 40	1085486



Switch 1100NT						
Copper ports	Specialty ports	Total ports	Speed	Class I Div 2	Description	Order #
8		8	10/100	✓	FL SWITCH 1608	1196227
8		8	10/100/1000		FL SWITCH 1708	1196228




PoE and Ethernet Installation Technology




Technical Service (800) 890-2820 ext.1 • techsupport@phoenixcontact.ca

<input type="checkbox"/> How many copper ports are required?	<input type="checkbox"/> Are dual-power input and alarm contacts required?
<input type="checkbox"/> Are specialty ports required: Power Over Ethernet (POE) and/or fiber optic?	<input type="checkbox"/> Is the installation in a hazardous location?
<input type="checkbox"/> What are the total number of ports required?	<input type="checkbox"/> Resulting Phoenix Contact order #
<input type="checkbox"/> What speed is required in the network?	

POE						
Copper ports	Specialty ports	Total ports	Speed	Hazardous	Description	Order #
8	8 10/100/1000 Mbps PoE+	8	10/100/1000	X	FL SWITCH 1000-8POE-GT	1102079
4	4 10/100/1000 Mbps PoE+	4	10/100/1000	X	FL SWITCH 1001-4POE-GT	1102077






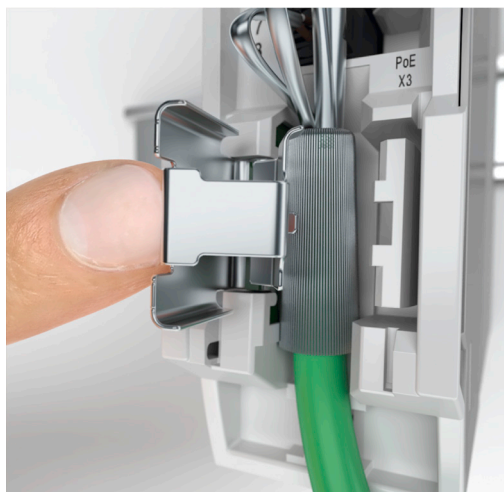
<input type="checkbox"/> What connection methods does it have?	<input type="checkbox"/> What POE standard does it comply to?
<input type="checkbox"/> What is the temperature rating?	<input type="checkbox"/> Resulting Phoenix Contact order #
<input type="checkbox"/> What are the max power allowed?	
<input type="checkbox"/> Does it have any special features?	

PoE injector									
	Connection method	Temperature range	Power budget	Special features	PoE standard	Description	Order #		
	RJ45 / RJ45	0 °C ... 55 °C	2 x 15 W	Electrical isolation in the power supply unit	IEEE 802.3 af	FL PSE 2TX	2891013		
			15/30 W	—	IEEE 802.3 af/at (PoE+)	INJ 1000	2703005		
		0 °C ... +60 °C	RJ45 / RJ45	-40 °C ... +75 °C	60 W	Electrical isolation in the power supply unit	Prepared for PoE bt (PoE++)	INJ 1010	2703007
					15/30 W	Electrical isolation in the power supply unit, surge protection and shield current diagnostics	IEEE 802.3 af/at (PoE+)	INJ 1000-T	2703006
					60 W		Prepared for PoE bt (PoE++)	INJ 1010-T	2703008
					15/30 W		IEEE 802.3 af/at (PoE+)	INJ 1100-T	2703009
					60 W		Prepared for PoE bt (PoE++)	INJ 1110-T	2703010
					15/30 W		IEEE 802.3 af/at (PoE+)	INJ 2102-T	2703012
					60 W		Prepared for PoE bt (PoE++)	INJ 2112-T	2703014
					15/30 W		IEEE 802.3 af/at (PoE+)	INJ 2103-T	1004065
60 W	Prepared for PoE bt (PoE++)	INJ 2113-T	1004066						
	RJ45 / Push-in	-40 °C ... +75 °C	15/30 W	Electrical isolation in the power supply unit, surge protection and shield current diagnostics	IEEE 802.3 af/at (PoE+)	INJ 2101-T	2703011		
			60 W		Prepared for PoE bt (PoE++)	INJ 2111-T	2703013		
	RJ45 /screw	-40 °C ... +75 °C	60 W	Electrical isolation in the power supply unit, surge protection and shield current diagnostics	Prepared for PoE bt (PoE++)	INJ 2111-T	2703013		
			60 W		Prepared for PoE bt (PoE++)	INJ 2111-T	2703013		

PoE and Ethernet Installation Technology

Technical Service (800) 890-2820 ext.1 • techsupport@phoenixcontact.ca

What connection methods does it have?	Does it have surge protection?					
What type of patch panel is this?	What is the designation?					
How is it shielded?	Resulting Phoenix Contact order #					
How is the shield connected?						
Patch panels						
Connection method	Description	Shielding	Cable shield connection	Surge protection	Description	Order #
 RJ45/RJ45	Standard Ethernet patch panel, 8-pos., 10/100/100 Mbps	Right on the DIN rail	Using an RJ45 socket	X	PP-RJ-RJ	2703015
RJ45 /screw			Tooless using shield contact spring		PP-RJ-SC	2703016
RJ45 /Push-in			Using an Rj45 socket		PP-RJ-SCC	2703018
 RJ45 /IDC	Function variant Ethernet patch panels 8-pos., 10/100/1000 Mbps	Right on the DIN rail	Tooless using shield contact spring	✓	PP-RJ-IDC	2703019
RJ45 /RJ45					PP-RJ-RJ-F	2703020
RJ45 /screw					PP-FJ-SC-F	2703021
 RJ45 /Push-in	With surge protection and shield current diagnostics	Right on the DIN rail	Tooless using shield contact spring	✓	PP-RJ-SCC-F	2703022
RJ45 /IDC					PP-RJ-IDC-F	2703023



Toolless shield connection

Connect the cable shielding to the DIN rail without tools - with strain relief assured at the same time.



Shield current diagnostics

The reliable display of hazardous shield currents increases the safety of your installation.










Quick and easy installation




Installation takes 60% less time, thanks to patented cable connection technology.

Managed Switches

Technical Service (800) 890-2820 ext.1 • techsupport@phoenixcontact.ca

 How many copper ports are required?	 What special features are included?
 How many fiber optic ports are required?	 Resulting Phoenix Contact order #
 What are the total number of Combo ports?	
 What is the speed?	

Intelligent switches for the machine: Switch 2000 and 2100							
Features	Copper ports	Fiber optic ports	Combo ports	Port speed	Special features	Description	Order #
Supply voltage: 18...32 V DC, temperature range: 0°C ... +60°C, IP20, front port outlet direction							
	5 x RJ45	–	–	10/100 Mbps	RSTP, Ethernet I/P, extended multicast filtering and Profinet class A	FL SWITCH 2005	2702323
	8 x RJ45	–	–			FL SWITCH 2008	2702324
	16 x RJ45	–	–			FL SWITCH 2016	2702903
	5 x RJ45	–	–	10/100/1000 Mbps		FL SWITCH 2105	2702665
	8 x RJ45	–	–			FL SWITCH 2108	2702666
	16 x RJ45	–	–			FL SWITCH 2116	2702908

Intelligent switches for universal use: Switch 2200 and 2300								
Features	Copper ports	Fiber optic ports	Combo ports	Port speed	Special features	Description	Order #	
Supply voltage: 12... 57 V DC (redundant), temperature range: - 40°C ... +70°C, IP20, front port outlet direction, PROFINET Class B								
Approvals: DNV/GL, BV, ABS, LR, RINA, IECEx, ATEX Zone 2								
	5 x RJ45	–	–	10/100 Mbps	RSTP, Ethernet I/P, extended multicast filtering and Profinet class A Digital alarm output Fast Ring Detection, Large Tree Support, MRP Manager, up to 32 static VLANs, pool-based DHCP server and option 82	FL SWITCH 2205	2702326	
	8 x RJ45	–	–			FL SWITCH 2208	2702327	
	7 x RJ45	1 x MM SC	–			FL SWITCH 2207-FX	2702328	
	7 x RJ45	1 x SM SC	–			FL SWITCH 2207-FX SM	2702329	
	6 x RJ45	2 x MM SC	–			FL SWITCH 2206-2FX	2702330	
	6 x RJ45	2 x SM SC	–			FL SWITCH 2206-2FX SM	2702331	
	6 x RJ45	2 x MM ST	–			FL SWITCH 2206-2FX ST	2702332	
	6 x RJ45	2 x SM ST	–			FL SWITCH 2206-2FX SM ST	2702333	
	6 x RJ45	2 x SFX	–			FL SWITCH 2206-2SFX	2702969	
	4 x RJ45	2 x SFX	2 x SFX/RJ45			FL SWITCH 2204-2TC-2SFX	2702334	
	16 x RJ45	–	–			FL SWITCH 2216	2702904	
	14 x RJ45	2 x MM SC	–			FL SWITCH 2214-2FX	2702905	
	14 x RJ45	2 x SM SC	–	FL SWITCH 2214-2FX SM		2702906		
	14 x RJ45	2 x SFX	–	FL SWITCH 2214-2SFX		1006188		
	12 x RJ45	2 x SFX	2 x SFX/RJ45	FL SWITCH 2212-2TC-2SFX		2702907		
		8 x RJ45	–	–		10 / 100 / 1000 Mbps	FL SWITCH 2308	2702652
		6 x RJ45	2 x SFP	–			FL SWITCH 2306-2SFP	2702970
		4 x RJ45	2 x SFP	2 x SFP/RJ45			FL SWITCH 2304-2GC-2SFP	2702653
16 x RJ45		–	–	FL SWITCH 2316	2702909			
14 x RJ45		2 x SFP	–	FL SWITCH 2314-2SFP	1006191			
12 x RJ45		2 x SFP	2 x SFP/RJ45	FL SWITCH 2312-2GC-2SFP	2702910			
	8 x RJ45	–	–	10/100 Mbps	PROFINET (preset), PROFINET status LEDs	FL SWITCH 2208 PN	1044024	
	6 x RJ45	2 x SFX	–			FL SWITCH 2206-2SFX-PN	1044028	
	16 x RJ45	–	–			FL SWITCH 2216 PN	1044029	
	14 x RJ45	2 x SFX	–			FL SWITCH 2214-2SFX PN	1044030	
	8 x RJ45	–	–	10/100/1000 Mbps		FL SWITCH 2308 PN	1009220	
	6 x RJ45	2 x SFP	–			FL SWITCH 2306-2SFP PN	1009222	
	16 x RJ45	–	–			FL SWITCH 2316 PN	1031673	
	14 x RJ45	2 x SFP	–			FL SWITCH 2314-2SFP PN	1031683	

Secure Remote Connectivity

Technical Service (800) 890-2820 ext.1 • techsupport@phoenixcontact.ca



mGuard					
Notes	mGuard Secure Cloud	Routing/NAT	Configurable Firewall	Description	Order #
Remote access gateway with 1 LAN and 1 WAN port	✓	✗	✗	CLOUD CLIENT 1001T-TX/TX	1221706
Remote access gateway with a cellular connection	✓	✗	✗	TC CLOUD CLIENT 1002-4G ATT	2702888
Gigabit router supporting NAT and a simple firewall	✗	✓	✓	FL MGuard 1102	1153079
Gigabit router supporting NAT and a simple firewall	✗	✓	✓	FL MGuard 1105	1153078
Router with VPN/Remote access, NAT and a fully featured firewall, 1 LAN and 1 WANport	✓	✓	✓	FL MGuard RS2000 TX/TX VPN	2700642
Router with VPN/Remote access, NAT and a fully featured firewall, 4 LAN and 1 WAN port	✓	✓	✓	FL MGuard RS2005 TX VPN	2701875
Cellular Router with VPN/Remote access, NAT and a fully featured firewall	✓	✓	✓	TC MGuard RS2000 4G ATT VPN	1010464
Router with VPN/Remote access, NAT and a fully featured firewall featuring 1 LAN and 1 WAN port	✓	✓	✓	FL RS RS4000 TX/TX VPN	2200515
Router with VPN/Remote access, NAT and a fully featured firewall featuring 4 LAN, 1 WAN and 1 DMZ port	✓	✓	✓	FL MGuard RS4004 TX/DTX VPN	2701877
Cellular Router with VPN/Remote access, NAT and a fully featured firewall. Featuring 4LAN, 1 WAN 1 DMZ port. Can fallback from WAN to cellular	✓	✓	✓	TC MGuard RS4000 4G ATT VPN	1010463

Cloud-based Remote Maintenance

mGuard Secure Cloud

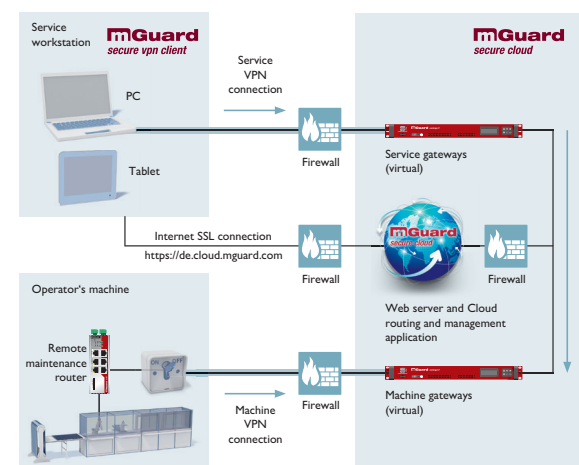


The mGuard Secure Cloud uses IPsec VPNs, and ensures the confidentiality, authenticity, and integrity of data transmitted between the devices. Service personnel use an approved VPN client, such as the mGuard Secure VPN Client Software or an FL mGuard smart, and connect their workstations to the mGuard Secure Cloud. The machines are equipped with industry-capable remote maintenance routers, and establish your VPN connection to the cloud as needed. The mGuard Secure Cloud web interface controls the service technician's access to the machines.

Features:

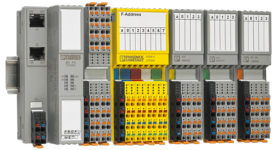
- Highly secure IPsec VPN communication
- 2-factor authentication
- User management for access to various customers and systems
- Superior availability worldwide
- Operated in Germany in accordance with the most stringent security and data protection standards
- Industry-proven mGuard security technology

Functional components and features of the mGuard Secure Cloud



Axioline F for the Control Cabinet

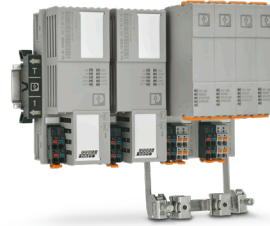
Technical Service (800) 890-2820 ext.1 • techsupport@phoenixcontact.ca



Axioline F
Robust and Fast



Smart element
Compact and cost effective



Axioline P
Hot swappable and redundant



Scan QR Code to learn more about our I/O Systems for IP20 and IP65/IP67 degrees of protection.

Technical data

Ambient conditions		Supply voltages	
Temperature range (operation)	-25°C ... +60°C	Nominal value	24 V DC
Relative humidity (operation)	5% ... 95% (no condensation)	Ripple	±5% according to EN 61131-2
Vibration	5g according to EN 60068-2-6	Permissible range	19.2 V DC ... 30.0 V DC
Shock	30g according to EN 60068-2-27	System times	
Continuous shock	10g according to EN 60068-2-29	System bus cycle time	2 µs
Degree of protection	IP20	Module offset	1 µs
Electromagnetic compatibility		Bus coupler offset	0 µs
Noise emission	Class B according to EN 61000-6-3	Approvals	
Noise immunity	According to EN 61000-4	UL	

Network connection

Bus couplers	Type	Description	Order #
	Bus coupler for PROFINET	AXL F BK PN	2701815
	Bus coupler for EtherCAT	AXL F BK EC	2688899
	Bus coupler for EtherNet/IP™	AXL F BK EIP (available from Dec. 2014)	2688394
	Bus coupler for Modbus TCP	AXL F BK ETH	2688459
	Bus coupler for PROFIBUS	AXL F BK PB	2688530
	Bus coupler for PROFINET	AXL F BK PN TPS	2403869
	Bus coupler for EtherNet/IP™	AXL F BK EIP EF	2702782






Controllers

Type	Description	Order #
Axiicontrol compact controller	AXC 1050 AXC 1050 XC	2700988 2701295
Axiicontrol high-performance controller	AXC 3050	2700989


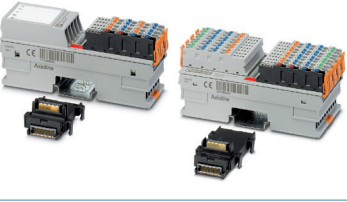

Axioline F for the Control Cabinet

Technical Service (800) 890-2820 ext.1 • techsupport@phoenixcontact.ca



PLCnext controllers

	Type	Description	Order #		Type	Description	Order #
	Edge Controller	EPC 1502	1185416		PLCnext Controller	AXC F 1152	1151412
	Edge Controller	EPC 1522	1185423		PLCnext Controller	AXC F 2152	2404267
					PLCnext Controller	AXC F 3152	1069208


Acquiring digital data

	Type	Description	Order #
 <p>DI Digital input</p> <ul style="list-style-type: none"> • 16 to 64 channels • High-speed inputs • 54 mm and 35 mm design width 	16 digital inputs, 1-wire	AXL F DI16/1 1H	2688310
	16 digital inputs, 1-wire, high speed	AXL F DI16/1 HS 1H	2701722
	16 digital inputs, 4-wire	AXL F DI16/4 2F	2688022
	32 digital inputs, 1-wire	AXL F DI32/1 1F	2688035
	64 digital inputs, 1-wire	AXL F DI64/1 2F	2701450
 <p>DO Digital output</p> <ul style="list-style-type: none"> • 8 to 32 channels • 2 A outputs • 54 mm and 35 mm design width 	8 digital outputs, 2-wire, 2 A	AXL F DO8/2 2A 1H	2688381
	16 digital outputs, 1-wire	AXL F DO16/1 1H	2688349
	16 digital outputs, 3-wire	AXL F DO16/3 2F	2688048
	32 digital outputs, 1-wire	AXL F DO32/1 1F	2688051
 <p>DI DO Digital input/output</p> <ul style="list-style-type: none"> • 35 mm 	8 digital inputs, 8 digital outputs, 1-wire	AXL F DI8/1 DO8/1 1H	2701916

Acquiring analog data

 <p>AI Analog input</p> <ul style="list-style-type: none"> • 4 to 8 channels • 54 mm and 35 mm design width 	4 analog inputs, current	AXL F AI4 I 1H	2688491
	4 analog inputs, voltage	AXL F AI4 U 1H	2688501
	8 analog inputs, current/voltage	AXL F AI8 1F	2688064
	4 temperature inputs, RTD	AXL F RTD4 1H	2688556
	4 temperature inputs, UTH	AXL F UTH4 1H	2688598
	8 temperature inputs, RTD	AXL F RTD8 1F	2688077
	8 temperature inputs, UTH	AXL F UTH8 1F	2688417
 <p>AO Analog output</p> <ul style="list-style-type: none"> • 4 to 8 channels • 54 mm and 35 mm design width 	4 analog outputs, current/voltage	AXL F AO4 1H	2688527
	8 analog outputs, current/voltage	AXL F AO8 1F	2688080

Special function modules

 <p>FKT Special function modules</p> <ul style="list-style-type: none"> • 54 mm and 35 mm design width 	1 interface can be configured as RS-485/RS-422 or RS-232	AXL F RS UNI 1H	2688666
	2 counter inputs, 2 incremental encoder inputs	AXL F CNT2 INC2 1F	2688093
	1 SSI interface, 1 analog output	AXL F SSI1 AO1 1H	2688433

Axioline Smart Elements

Technical Service (800) 890-2820 ext.1 • techsupport@phoenixcontact.ca




<input type="checkbox"/> What is the type?	AI	AO	DI	DO	Function	Safety	System
<input type="checkbox"/> Phoenix Contact order #							

Acquiring digital data				
Function description	Type	Description	Order #	
Analog input, 4 channels, 4-20 mA, single ended	AI	AXL SE AI4 I 4-20	1088062	
Analog input, 4 channels, 0-10 V, single ended	AI	AXL SE AI4 U 0-10	1088104	
Analog input, 4 channels for temperature measurement with PT100	AI	AXL SE RTD4 PT100	1088106	
Analog output, 4 channels, 4-20 mA, single ended	AO	AXL SE AO4 I 4-20	1088123	
Analog output, 4 channels, 0-10 V, single ended	AO	AXL SE AO4 U 0-10	1088126	
Digital input, 16 channels, one-wire connection	DI	AXL SE DI16/1	1088127	
Digital output, 16 channels, one-wire connection	DO	AXL SE DO16/1	1088129	
IO-Link master with 4 channels	Function	AXL SE IOL4	1088132	
Function element with a counter input for 24V DC sensors	Function	AXL SE CNT1	1088131	
Function element for symmetrical incremental encoders	Function	AXL SE INC1 SYM	1088130	
Function element with a serial interface RS 485	Function	AXL SE RS485	1088128	
Digital safe input, 8 channels (PROFIsafe)	Safety	AXL SE PSDI8/3	1079241	
Digital safe output, 4 channels (PROFIsafe)	Safety	AXL SE PSDO4/2 2A	1079231	
Axioline F backplane, 6 Smart Elements slots	System	AXL F BP SE6	1088136	
Axioline F backplane, 4 Smart Elements slots	System	AXL F BP SE4	1088135	
Backplane covering element for unused slots	System	AXL SE SC-A	1088134	

Control Cabinet Lights

Technical Service (800) 890-2820 ext.1 • techsupport@phoenixcontact.ca

The enclosure lights from Phoenix Contact provide optimum lighting for your control cabinet, and are easy to install without tools. In particular, the lower third of the control cabinet is ideally lit via a high-quality lens and prismatic reflector. Choose the lights tailored to your needs from two performance classes and a particularly flexible product range.

300 Series enclosure lights		
		
Description	PLD E 409 W 350	PLD E 409 W 350 MS
Order #	1319569	1319573
Motion sensor	No	Yes
Product information	LED enclosure light, color temperature 5000 K, length 350 mm, Housing: Polycarbonate, pivoting, can be switched in series, including mounting accessories	LED enclosure light, color temperature 5000 K, length 350 mm, Housing: Polycarbonate, pivoting, can be switched in series, with motion detector , including mounting accessories
Accessories		
Description	PLD E 400-DS-3,0/0,6	
Order #	1318672	
Product information	Optional door Switch	



Scan QR Code to learn more about our enclosure lighting.

HMI's

Technical Service (800) 890-2820 ext.1 • techsupport@phoenixcontact.ca

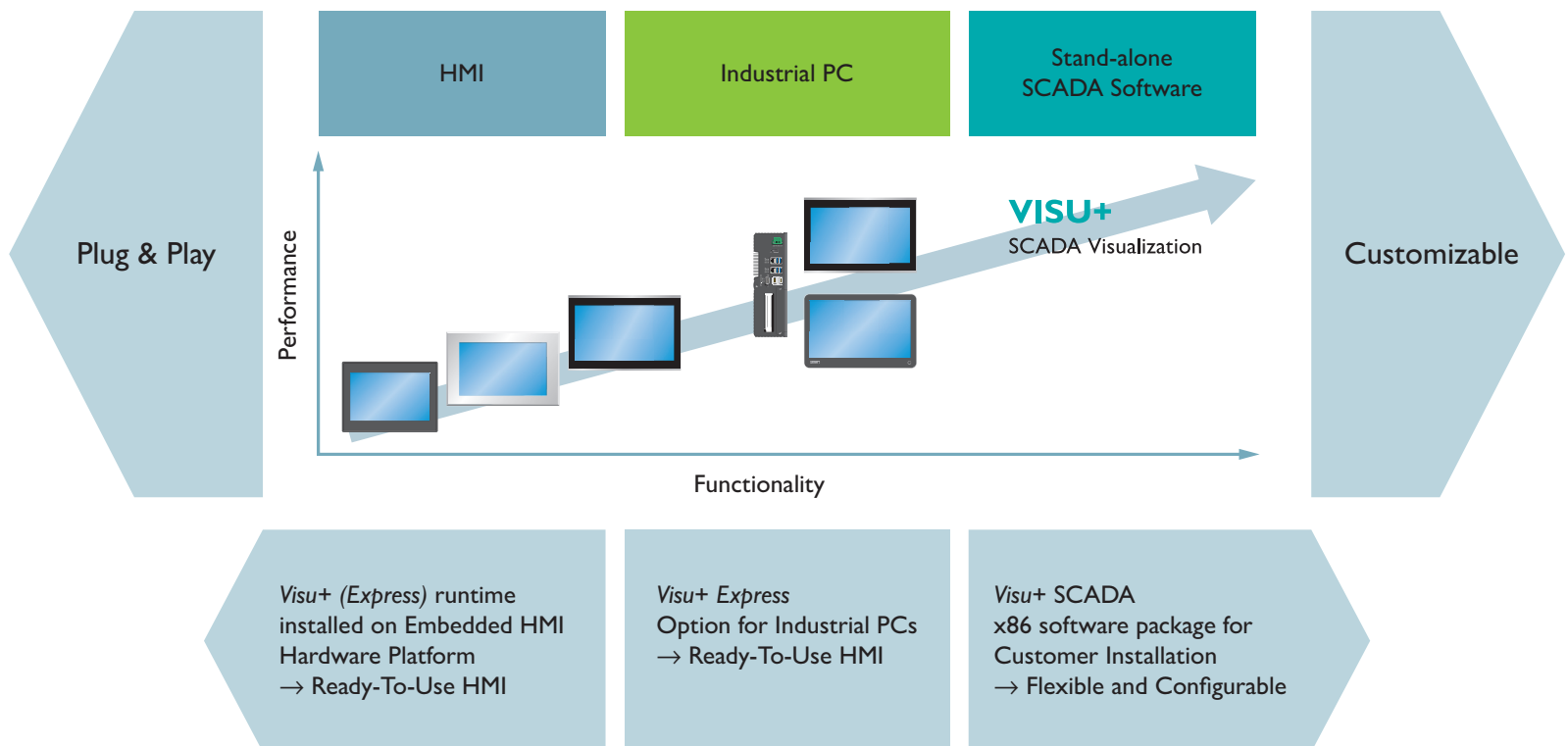
HTML5 screens									
Series	Screen Size (in)	Resolution	Touch	Brightness	Backlight MTBF	Operation Temp.	Class I Div 2	Description	Order #
Basic HTML5 Panel	4.3	480x272	Resistive	300	20,000	0° to +50°C	✓	BWP 2043W	1060549
	7	800x480						BWP 2070W	1060632
	10.2	1240x600						BWP 2102W	1060630
Premium HTML5 Panel	7	1280x800	PCAP	400	50,000	-20° to +50°C	✗	WP 6070-WVPS	1209800
	10.1			850				WP 6101-WXPS	1290801
	12.1			320				WP 6121-WXPS	1290802



HMI solutions									
Series	Screen Size (in)	Resolution	Touch	Brightness	Backlight MTBF	Operation Temp.	Class I Div 2	Description	Order #
Basic touch Panel	4.3	480x272	Resistive	300	20,000	0° to +50°C	✓	BTP 2043W	1060549
	7	800x480						BTP 2070W	1060632
	10.2							BTP 2102W	1060630
Premium touch Panel	7	800x480	PCAP	400	40,000	-20° to +50°C	✗	TP 6070-WVPS	1189629
	10.1			850	70,000			TP 6101-WXPS	1190417
	12.1			320	50,000			TP 6121-WXPS	1190420



Robust, scalable, and reliable HMI panels



Visu+ Express

Free visualization software for connection to all well-known controller manufacturers with a comprehensive range of visualization tools.

Visu+

Powerful visualization software for complex visualization tasks and comprehensive SCADA functions for connection to all well-known controller manufacturers.

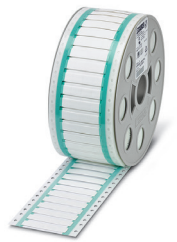
HTML5

HMI panels with integrated embedded browser in kiosk/full-screen mode with optimum HTML5 support enable operation and monitoring options for the high-performance display of web-based content.

Marking

Technical Service (800) 890-2820 ext.1 • techsupport@phoenixcontact.ca



■ What material do you use to mark wires: shrink sleeves or self-laminating strips? What type of wire markers do you use?					
■ What size wires are you marking?					
■ How much printing area do you need?					
■ How many markers or labels per roll do you want? (SEE PRINTER SPECIFICATIONS)					
Conductor/cable marking					
Shrink sleeves	Shrink sleeves				
	Conductor size	Lettering field size [mm/in]	Markers per roll	Description	Order #
	1 - 3.3 mm or 22-18 AWG	15 x 5 / 0.59 x 0.20	1000	WMS 3,2 (15X5)R	0800380
			4000	WMS 3,2 (15X5)RL	0800390
		30 x 5 / 1.18 x 0.20	500	WMS 3,2 (30X5)R	0800374
			2000	WMS 3,2 (30X5)RL	0800387
			5000	WMS 3,2 (30X5)RXL	0804268
			250	WMS 3,2 (60X5)R	0800364
	1.6 - 4.8 mm or 18-14 AWG	15 x 9 / 0.59 x 0.35	1000	WMS 4,8 (15X9)R	0800382
			4000	WMS 4,8 (15X9)RL	0800391
			10000	WMS 4,8 (15X9)RXL	0800397
		30 x 9 / 1.18 x 0.35	500	WMS 4,8 (30X9)R	0800375
			2000	WMS 4,8 (30X9)RL	0800388
			5000	WMS 4,8 (30X9)RXL	0800395
	2.4 - 6.4 mm or 16-10 AWG	15 x 10 / 0.59 x 0.39	250	WMS 4,8 (60X9)R	0800366
			1000	WMS 4,8 (60X9)RL	0800385
			2500	WMS 4,8 (60X9)RXL	0800393
		30 x 10 / 1.18 x 0.39	1000	WMS 6,4 (15X10)R	0801593
			4000	WMS 6,4 (15X10)RL	0801594
			10000	WMS 6,4 (15X10)RXL	0801595
	3.5 - 9.5 mm or 12-8 AWG - 2/0	30 x 10 / 1.18 x 0.39	500	WMS 6,4 (30X10)R	0800376
			250	WMS 6,4 (60X10)R	0800367
			500	WMS 9,5 (30X16)R	0800377
		60 x 10 / 2.36 x 0.39	2000	WMS 9,5 (30X16)RL	0804267
250			WMS 9,5 (60X16)R	0800368	
1000			WMS 9,5 (60X16)RL	0803105	
Cable marker label	Wrap around labels				
	Conductor size	Lettering-field size [mm/in]	Markers per roll	Description	Order #
	< 3 mm or < 10 AWG	13 x 10 / 0.51 x 0.39	5000	WML 3 (13X10)R	0800073
	< 5 mm or < 6 AWG	25 x 10 / 0.98 x 0.39	3000	WML 5 (25X10)R	0817523
	< 6 mm or < 4 AWG	13 x 13 / 0.51 x 0.51	7000	WML 6 (13X13)R	0816252
	< 7.5 mm or < 2 AWG	13 x 13 / 0.51 x 0.51	4000	WML 7,5 (13X13)R	0800074
		17 x 9 / 0.67 x 0.35	1500	WML 7,5 (17X9)R	0828444
	< 12 mm or < 4/0	25 x 13 / 0.98 x 0.51	2100	WML 7,5 (25X13)R	0800075
		25 x 19 / 0.98 x 0.75	1000	WML 12 (25X19)R	0800076
	< 14 mm or < 0.55 in Ø	25 x 19 / 0.98 x 0.75	1500	WML 14 (25X19)R	0817536
		38 x 19 / 1.5 x 0.75	1000	WML 14 (38X19)R	0817552
	< 18 mm or < 0.75 in Ø	12 x 12 / 0.47 x 0.47	2500	WML 18 (12X12)R	0817507
	< 20 mm or < 0.79 in Ø	31 x 25 / 1.22 x 0.98	500	WML 20 (31X25)R	0828457
	< 22 mm or < 0.875 in Ø	25 x 25 / 0.98 x 0.98	900	WML 22 (25X25)R	0800078
	< 36 mm or < 1.45 in Ø	25 x 38 / 0.98 x 1.5	500	WML 36 (25X38)R	0817510
	< 46 mm or < 1.825 in Ø	25 x 38 / 0.98 x 1.5	250	WML 46 (25X38)R	0800067



Available in other sizes, quantities, and colors

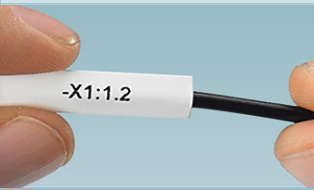





■ How to select a printer					
■ What are you marking and with what material: CARD or ROLL material?					
■ How many labels do you need to print: volume?					
■ Do you need a desktop or mobile printer: size?					
NOTE : Card printers require magazine that matches the card material					
Printing					
Material	Volume	Size	Description	Order #	
Card and sheet	Manual feed	Desktop	THERMOMARK CARD 2.0	1085267	
Card and sheet	Manual feed	Desktop and portable	THERMOMARK PRIME	5148888	
Roll	< 50,000 labels/yr.	Desktop	THERMOMARK ROLL 2.0	1085260	
Roll	> 50,000 labels/yr.	Large/desktop	THERMOMARK ROLLMASTER	0804501	
Cartridge	Low	Hand-held	THERMOMARK GO.K	1184146	
Cartridge	Low	Hand-held (Starter Kit)	THERMOMARK GO.K SET	1184148	
Cartridge	Low	Hand-held w/ die cut option labels	THERMOMARK GO	1090747	
Cartridge	Low	Hand-held w/ die cut option labels (Starter Kit)	THERMOMARK GO SET	1221548	



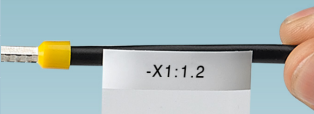


Ribbon			
Material	Volume	Size	Order #
	Standard ink ribbon for all thermal marking - CARD PRINTER Length 300m	THERMOMARK-RIBBON 110-TC	0801371
	Standard ink ribbon heat shrink materials - ROLL PRINTER Length 300m	THERMOMARK-RIBBON 110-WMSU	0801358
	Standard ink ribbon for all thermal marking (not heat shrink) ROLL PRINTER Length 300m	THERMOMARK-RIBBON 110	5145384
	Standard ink ribbon for all thermal marking - CARD PRINTER Length 70m	TMP-RIBBON 110 BK 100	0803374

Commonly Used Marking Materials

Technical Service (800) 890-2820 ext.1 • techsupport@phoenixcontact.ca

Continuous format cartridges for THERMOMARK GO. K and THERMOMARK GO				
Heat shrink labels	Length	Colour	Description	Order #
	1.8m / 5.9ft	Black on White	MM-WMS 3,2 (EX5)R C1 WH/BK	0803923
	1.8m / 5.9ft	Black on White	MM-WMS 4,8 (EX9)R C1 WH/BK	0803924
	1.8m / 5.9ft	Black on White	MM-WMS 6,4 (EX10)R C1 WH/BK	0803925
	1.8m / 5.9ft	Black on White	MM-WMS 9,5 (EX16)R C1 WH/BK	0803926
	1.8m / 5.9ft	Black on Yellow	MM-WMS 3,2 (EX5)R C1 YE/BK	1116139
	1.8m / 5.9ft	Black on Yellow	MM-WMS 4,8 (EX9)R C1 YE/BK	1116140
	1.8m / 5.9ft	Black on Yellow	MM-WMS 6,4 (EX10)R C1 YE/BK	1116141
	6.5m / 21.3ft	Black on White	MM-WML 3 (EX10)R C1 WH/BK	0803931
	6.5m	Black on White	MM-WML 5 (EX10)R C1 WH/BK	0803932
	6m	Black on White	MM-EMLC (EX12)R C1 WH/BK	0803934
	6m	Black on White	MM-EMLC (EX18)R C1 WH/BK	0803936
	8m	Black on White	MM-EMLF (EX10)R C1 WH/BK	0803937
	8m	Black on White	MM-EMLF (EX12)R C1 WH/BK	0803938
	8m	Black on White	MM-EMLF (EX18)R C1 WH/BK	0803939
	8m	Black on White	MM-EMLF (EX24)R C1 WH/BK	0803940
	8m	Black on White	MM-EML (EX10)R C1 WH/BK	0803970
	8m	Black on White	MM-EML (EX12)R C1 WH/BK	0803971
	8m	Black on White	MM-EML (EX18)R C1 WH/BK	0803972
	8m	Black on White	MM-EML (EX24)R C1 WH/BK	0803973









Die-cut format cartridges for THERMOMARK GO only				
Wrap around labels	# of Labels	Colour	Description	Order #
	235	Black on White	MM-WML 5 (24X10)R C1 WH/BK	1116196
	190	Black on White	MM-WML 6 (13X13)R C1 WH/BK	1116197
	165	Black on White	MM-WML 7,5 (24X13)R C1 WH/BK	1116198
	50	Black on White	MM-WMTB HF (40X12)R C1 WH/BK	1116166
	20	Black on White	MM-WMTB HF (55X15)R C1 WH/BK	1116207
	20	Black on White	MM-WMTB HF (55X25)R C1 WH/BK	1116209
	297	Black on White	MM-EML (20X8)R C1 WH/BK	1116204
	297	Black on Yellow	MM-EML (20X8)R C1 YE/BK	1116205

Additional sizes and colours are available



Installation

Technical Service (800) 890-2820 ext.1 • techsupport@phoenixcontact.ca

■ What do you use to cut conductors, cables, and cable binders?		■ Do you ferrule wires? What gage wire are you using?				
■ What do you use to strip wire and multi-conductor cables?		■ What tools do you need to terminate conductors?				
■ What do you use to crimp the wire?						
Installation						
Cut	Function	Conductor size	Description	Order #		
	Cable-cutting tool	Up to 35 mm ²	CUTFOX 12	1212128		
	Cable-cutting tool	Up to 50 mm ² or 1/0	CUTFOX 18	1212129		
	Diagonal cutter	VDE Insulated	CUTFOX S VDE	1212207		
	Cable-binder cutter	"For plastic cable binders up to 4.8 mm or 0.187 inches wide	UNIFOX-CT 4,8P	1212609		
Strip	Single conductor					
	Function	Conductor size	Insulation type	Description		Order #
	Self-adjusting stripping tool	0.08-2.5 mm ² or 28-14AWG	Standard	WIREFOX 2.5		1212368
	Self-adjusting stripping tool	0.1 - 4 mm ² or 28 - 12 AWG	Special insulation, e.g., PTFE	WIREFOX 4		1212156
	Self-adjusting stripping tool	0.02 - 10 mm ² or 34 - 8 AWG	Standard	WIREFOX 10		1212150
	Multi-conductor					
	Strips sensor/actuator cables	4.4 - 7 mm ² or 12 - 8 AWG	SAC cables	WIREFOX SAC		1212623
	Strips multi-conductor cables	max insulation 1mm 2.5-11mm or 10-3/0 AWG	Any	WIREFOX-D 11		1212160
Strips large, multi-conductor cables	4.5 - 40 mm Ø or 0.17 - 1.5 in Ø	Any	WIREFOX-D 40	1212161		
Replacement blade available						
Crimp	Crimping tools					
	Conductor size	Crimp shape	Description	Order #		
	0.14 - 6 mm ² or 24 - 10 AWG	Square	CRIMPFOX CENTRUS 6S	1213144		
		Hex	CRIMPFOX CENTRUS 6H	1213146		
	0.14 - 10 mm ² or 24 - 8 AWG	Square	CRIMPFOX CENTRUS 10S	1213154		
		Hex	CRIMPFOX CENTRUS 10H	1213156		
	0.25 - 6 mm ² or 22 - 10 AWG	Trapezoid	CRIMPFOX 6	1212034		
10 - 25 mm ² or 6 - 4 AWG	Trapezoid	CRIMPFOX 25R	1212039			
0.14-10mm ² or 26-8 AWG	Trapezoid	CRIMPFOX DUO 10	1031721			
Ferrules	Ferrules					
	AWG	Color	Std pack	Description		Order #
	22	Turquoise	100	AI 0,34-8 TQ		3203066
	20	White	100	AI 0,5-8 WH		3200014
	18	Grey	100	AI 0,75-8 GY (0,75 cross section)		3200519
	18	Red	100	AI 1-8 RD (1 cross section)		3200030
	16	Black	100	AI 1,5-8 BK		3200043
	14	Blue	100	AI 2,5-8 BU		3200522
	12	Grey	100	AI 4-10 GY		3200535
10	Yellow	100	AI 6-12 YE	3200548		
8	Red	100	AI 10-12 RD	3200551		
Assemble	Screwdrivers					
	Tool	Description	Order #			
	Torque screwdriver: 0.3 - 1.2 Nm / 2.6 in. lb - 10.6 in. lb	TSD-M 1,2NM	1212224			
	Torque screwdriver: 1.2 - 3.0 Nm / 10.6 in. lb - 26.5 in. lb	TSD-M 3NM	1212225			
	Torque screwdriver: 3.0 - 6.0 Nm / 26.5 in. lb - 53 in. lb	TSD-M 6NM	1212226			
	Micro screwdriver - Flat head - 0.4 mm blade	SZS 0,4X2,0	1205202			
	Standard screwdriver - Flat head - 0.6 mm blade	SZF 1-0,6X3,5	1204517			
	Tool set - 17-part kit	SF-M SET 2	1212756			
16 Speed cordless screwdriver set	SF-ASD 16 SET	1200295				
#2 Roberston Screwdriver, 8" long	SF-SQ 2-200	1072455				
Tool	Multifunction tools and ferrules					
	Function	Conductor size	Description	Order #		
	Complete kit	0.5 - 2.5 mm ² or 20 - 14 AWG	CRIMPFOX 4in1 set	1200102		
	Cut, strip, and crimp	0.5 - 2.5 mm ² or 20 - 14 AWG	CRIMPFOX 4in1	1200101		
	Ferrule carrier	0.5 - 2.5 mm ² or 20 - 14 AWG	CRIMPFOX 4in1/MAG	1200103		
Ferrules	50-ferrule strip - white	0.5 mm ² or 20 AWG	AI 0,5-8 WH S1	1200104		
	50-ferrule strip - gray	0.75 mm ² or 18 AWG	AI 0,75-8 GY S1	1200105		
	50-ferrule strip - red	1.0 mm ² or 18 AWG	AI 1,0-8 RD S1	1200106		
	50-ferrule strip - black	1.5 mm ² or 16 AWG	AI 1,5-8 BK S1	1200107		
	50-ferrule strip - blue	2.5 mm ² or 14 AWG	AI 2,5-8 BU S1	1200108		

Cable Ducts

Technical Service (800) 890-2820 ext.1 • techsupport@phoenixcontact.ca




Cable ducts													
A. What size do you require?		B. What color do you prefer?					C. Do you need halogen-free?						
		<input type="checkbox"/> Gray <input type="checkbox"/> White <input type="checkbox"/> Blue											
A		B			C		A		B			C	
Nominal size in inches	Description/size in mm	Gray order #	White order #	Blue order #	HF - Gray order #	HF - Blue order #	Nominal size in inches	Description/size in mm	Gray order #	White order #	Blue order #	HF - Gray order #	HF - Blue order #
1/2 x 1/2	No cross						2 x 1	CD 60 X 40	3240190	3240628	3240313	3240352	3240594
1/2 x 1	CD 25 X 25	3240187	3240616	3240301	3240340	3240582	2 x 1-1/2	CD 60 X 40	3240190	3240628	3240313	3240352	3240594
1/2 x 2	CD 25 X 60	3240191	3240618	3240303	3240342	3240584	2 x 2	CD 60 X 60	3240193	3240629	3240314	3240353	3240595
1/2 x 4	CD 30 X 100	3240283	3240623	3240308	3240347	3240589	2 x 3	CD 60 X 80	3240199	3240630	3240315	3240354	3240596
3/4 x 3/4	CD 25 X 25	3240187	3240616	3240301	3240340	3240582	2 x 4	CD 60 X 100	3240263	3240631	3240316	3240355	3240597
3/4 x 1	CD 25 X 25	3240187	3240616	3240301	3240340	3240582	2 x 5	CD 60 X 100	3240263	3240631	3240316	3240355	3240597
3/4 x 1-1/2	CD 25 X 40	3240188	3240617	3240302	3240341	3240583	2-1/2 x 3	CD 60 X 80	3240199	3240630	3240315	3240354	3240596
3/4 x 2	CD 25 X 60	3240191	3240618	3240303	3240342	3240584	3 x 1	CD 80 X 25	3240281	3240632	3240317	3240356	3240598
1 x 1	CD 25 X 25	3240187	3240616	3240301	3240340	3240582	3 x 1-1/2	CD 80 X 40	3240335	3240633	3240318	3240357	3240599
1 x 1-1/2	CD 25 X 40	3240188	3240617	3240302	3240341	3240583	3 x 2	CD 80 X 60	3240194	3240634	3240319	3240358	3240600
1 x 1-1/2	CD 30 X 40	3240278	3240620	3240305	3240344	3240586	3 x 3	CD 80 X 80	3240200	3240635	3240320	3240359	3240601
1 x 2	CD 25 X 60	3240191	3240618	3240303	3240342	3240584	3 x 4	CD 80 X 100	3240264	3240636	3240321	3240360	3240602
1 x 2	CD 30 X 60	3240280	3240621	3240306	3240345	3240587	3 x 5	CD 80 X 100	3240264	3240636	3240321	3240360	3240360
1 x 3	CD 25 X 80	3240197	3240619	3240304	3240343	3240585	4 x 1-1/2	CD 100 X 40	3240279	3240637	3240322	3240361	3240603
1 x 3	CD 30 X 80	3240282	3240622	3240307	3240346	3240588	4 x 2	CD 100 X 60	3240195	3240638	3240323	3240362	3240604
1 x 4	CD 30 X 100	3240283	3240623	3240308	3240347	3240589	4 x 3	CD 100 X 80	3240201	3240639	3240324	3240363	3240605
1-1/2 x 1	CD 40 X 40	3240189	3240624	3240309	3240348	3240590	4 x 4	CD 100 X 100	3240205	3240640	3240325	3240364	3240606
1-1/2 x 1-1/2	CD 40 X 40	3240189	3240624	3240309	3240348	3240590	4 x 5	CD 100 X 100	3240205	3240640	3240325	3240364	3240606
1-1/2 x 2	CD 40 X 60	3240192	3240625	3240310	3240349	3240591	5 x 2	CD 120 X 60	3240196	3240641	3240326	3240365	3240607
1-1/2 x 3	CD 40 X 80	3240198	3240626	3240311	3240350	3240592	5 x 3	CD 120 X 80	3240202	3240642	3240327	3240366	3240608
1-1/2 x 4	CD 40 x 100	3240294	3240627	3240312	3240351	3240593	TYPE: Narrow slot style * Bold parts are crossed to closest size						


Accessories

Technical Service (800) 890-2820 ext.1 • techsupport@phoenixcontact.ca

Electrical outlets	
<input type="checkbox"/>	Part description
<input type="checkbox"/>	Resulting Phoenix Contact order #
<input type="checkbox"/>	Do you need a <input type="checkbox"/> single or a <input type="checkbox"/> double outlet?
<input type="checkbox"/>	Do you want <input type="checkbox"/> push-in or <input type="checkbox"/> screw connection?
<input type="checkbox"/>	Do you require GFI?
<input type="checkbox"/>	Push-in connection single outlets
EO-AB/PT/15	0804165
EO-AB/PT/LED/15	0804168
EO-AB/PT/LED/S/15	0804174
EO-AB/PT/S/15	0804173
<input type="checkbox"/>	Screw connection single outlets
EO-AB/UT/15	0804152
EO-AB/UT/LED/20	0804509
EO-AB/UT/LED/S/15	0804160
EO-AB/UT/S/15	0804159
<input type="checkbox"/>	Double-socket outlets
EM-DUO 120/15	5600461
EM-DUO 120/20	5600525
EM-DUO 120/15/IG	5601677
EM-DUO 120/15/SPD	5601283
EM-DUO 120/15/SPD/AUX	5604063
EM-DUO 120/15/V/H	5604747
EM-DUO 120/20/V/H	5604776
<input type="checkbox"/>	Double-socket GFI outlets
EM-DUO 120/20/GFI	5602519
EM-DUO 120/20/GFI/AUX	5603049
EM-DUO 120/20/GFI/V/H	5604777
EM-DUO120/20/GFI/AUX/NO	5602192
EM-DUO/120/15/GFI	5600462
EM-DUO 120/15/GFI/AUX	5600639
EM-DUO 120/15/GFI/V/H	5604775

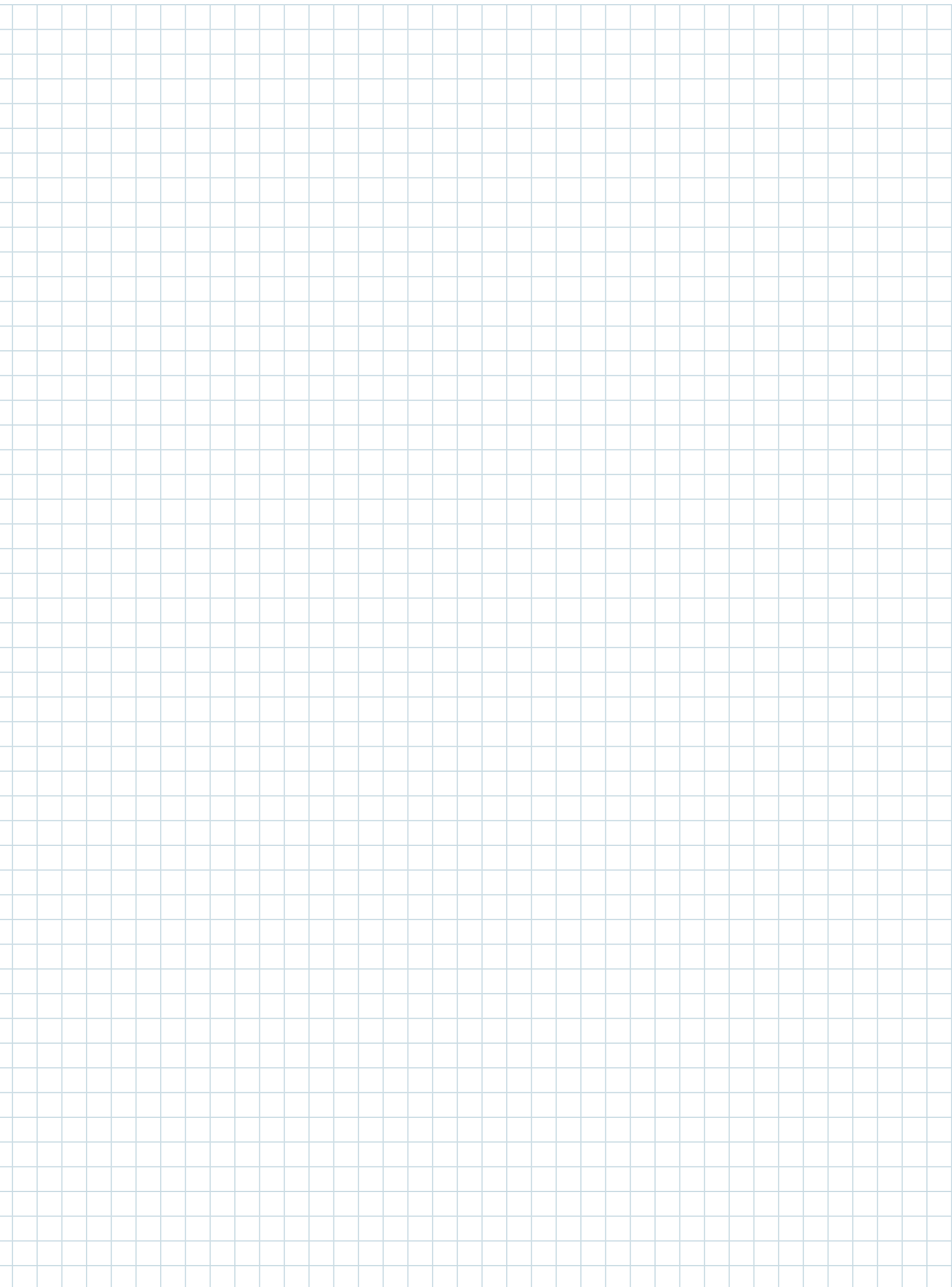
End brackets			
<input type="checkbox"/>	Do you want to snap it in or screw it down?		
<input type="checkbox"/>	What size do you need?		
<input type="checkbox"/>	Part description		
<input type="checkbox"/>	Resulting Phoenix Contact order #		
Mounting	Width (mm)	Description	Order #
Screw	9.5	E/NS 35 N	0800886
Snap on	5.15	CLIPFIX 35-5	3022276
Snap on	9.5	CLIPFIX 35	3022218



DIN rail					
<input type="checkbox"/>	Product material requirements				
<input type="checkbox"/>	Do you need it with or without holes?				
<input type="checkbox"/>	Product length				
<input type="checkbox"/>	What size do you need?				
<input type="checkbox"/>	Part description				
<input type="checkbox"/>	Resulting Phoenix Contact order #				
Material	Perforated or unperforated	Length (M)	Size W/H (mm)	Description	Order #
Steel, galvanized, passivated with a thick layer	Perforated	2	NS 35/ 7,5	NS 35/ 7,5 PERF 2000MM	0801733
Steel, galvanized, passivated with a thick layer	Unperforated	2	NS 35/ 7,5	NS 35/ 7,5 UNPERF 2000MM	0801681
Steel, galvanized, passivated with a thick layer	Perforated	2	NS 35/15	NS 35/15 PERF 2000MM	1201730
Steel, galvanized, passivated with a thick layer	Unperforated	2	NS 35/15	NS 35/15 UNPERF 2000MM	1201714

NOTES

The page is filled with a grid of small squares, typical of graph paper, intended for writing notes. The grid covers the entire page area below the 'NOTES' header.



Ongoing communication with customers and partners worldwide

Phoenix Contact is a global, market leader based in Germany. Our group is known for its future-oriented components, systems, and solutions in the fields of electrical engineering, electronics, and automation.

With a global network reaching across more than 100 countries and 14,500 employees, we can stay in close contact with our customers, something we believe is essential to success. The wide variety of our innovative products makes it easy for our customers to find future-oriented solutions for multiple applications and industries. We especially focus on the fields of energy, infrastructure, process, and factory automation.



You will find our complete product range at:
www.phoenixcontact.ca

PHOENIX CONTACT Ltd.
Canadian Headquarters
 8240 Parkhill Drive
 Milton, Ontario L9T 5V7
 Local: (905) 864-8700
 Toll Free: (800) 890-2820
www.phoenixcontact.ca

Eastern Canadian Regional Office
 555 Boulevard Dr. Frederik-Phillips,
 Suite 110
 St-Laurent, QC H4M 2X4
 Téléphone: (514) 956-2820
 Toll Free: (800) 890-2820
www.phoenixcontact.ca

Western Canadian Regional Office
 160-110 Quarry Park Blvd.
 S.E. Calgary, AB, T2C 3G3
 Local: (403) 723-2950
 Toll Free: (800) 890-2820
www.phoenixcontact.ca

Western Canadian District Office
 4300 North Fraser Way,
 Unit 175
 Langley, BC V2Y 0G9
 Toll Free: (800) 890-2820
www.phoenixcontact.ca