



POWER RELIABILITY

- Protection
- Conversion
- Monitoring
- Distribution




CONNECTIVITY

- Cabinet
- Through-panel
- Field




SIGNAL SWITCHING AND CONDITIONING

- Analog
- Digital
- Motor switching




SAFETY

- Machine
- Process



NETWORKING

- Ethernet infrastructure
- Network security
- Remote access
- Wireless



AUTOMATION AND CONTROL

- Programmable controllers
- Industrial PCs/HMIs
- Remote I/O



SHOP FLOOR PRODUCTIVITY

- Software
- ID solutions
- Industrial tools
- Cable management

Cabinet Confidence

Quick reference guide

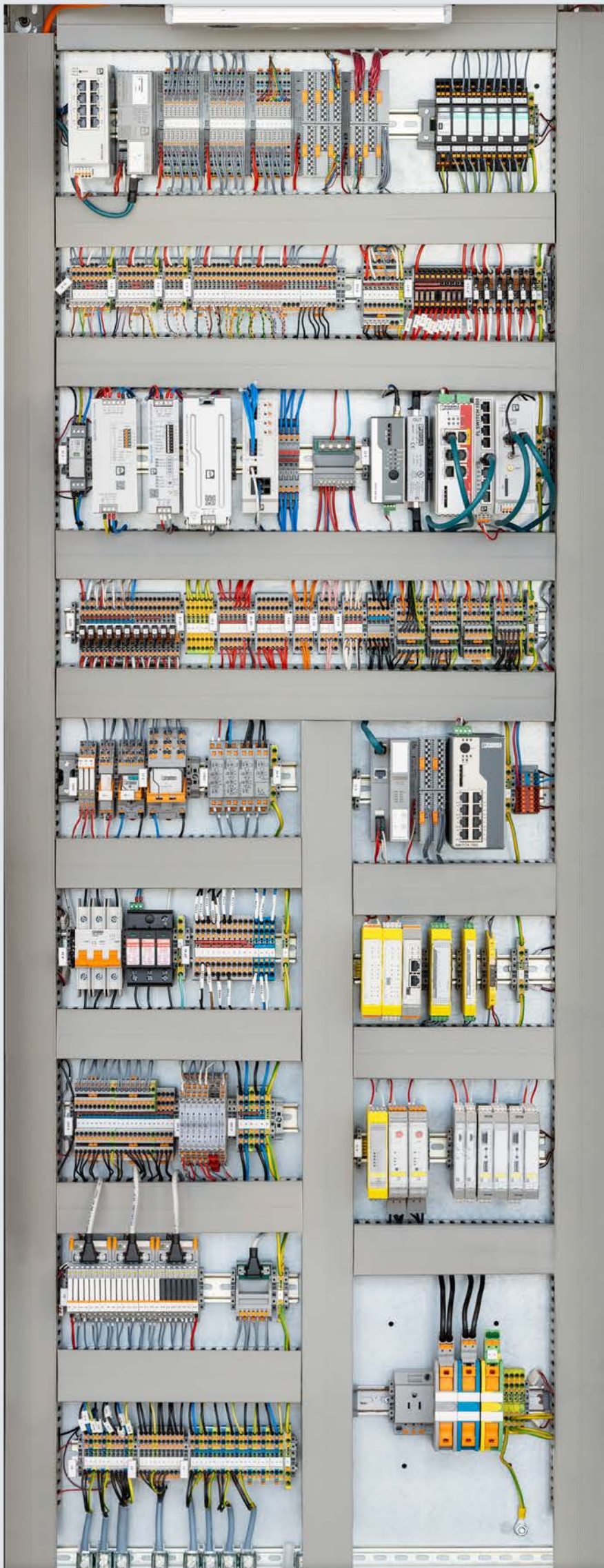


Table of contents



Power reliability

Power supplies	3
Uninterruptible Power Supplies (UPS)	
DC power	4
AC power – 1 kVA double conversion	5
AC power – 500 VA offline	6
Surge protection	7
Circuit breakers	8



Connectivity

Modular terminal blocks	9
Through-panel connections	10
Ethernet cordsets	10
Sensor cordsets	11



Signal switching and conditioning

Interposing relays	12
Industrial relays and motor control	13
Signal conditioners	14



Networking and remote connectivity

Ethernet switches	15
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Shop floor productivity

Marking	16
Industrial tools and cable management	17

Choose Phoenix Contact with confidence

A lifetime of confidence in 3 easy steps:

1. Purchase Phoenix Contact power supply
2. Purchase recommended surge protection device
3. Register at:
www.phoenixcontact.com/llw

It's just that simple.



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 a Class I, Division 2 rating?				
Have you considered surge protection?				
Resulting Phoenix Contact part number				
Phase	Output voltage	Output current	Type description	Order #
Single phase	5 V DC	5 A	UNO-PS/1 AC/5 DC/25 W	2904374
		8 A	UNO-PS/1 AC/5 DC/40 W	2904375
	12 V DC	2.5 A	UNO-PS/1 AC/12 DC/30 W	2902998
		4.6 A	UNO-PS/1 AC/12 DC/55 W	2902999
		5 A	TRIO-PS-2 G/1 AC/12 DC/5/C2LPS	2903157
		8.3 A	UNO-PS/1 AC/12 DC/100 W	2902997
		10 A	TRIO-PS-2 G/1 AC/12 DC/10	2903158
		15 A	QUINT4-PS/1 AC/12 DC/15	2904608
		20 A	QUINT-PS/1 AC/12 DC/20	2866721
	15 V DC	2 A	UNO-PS/1 AC/15 DC/30 W	2903000
		3.67 A	UNO-PS/1 AC/15 DC/55 W	2903001
		6.67 A	UNO-PS/1 AC/15 DC/100 W	2903002
	24 V DC	1.3 A	QUINT4-PS/1 AC/24 DC/1.3/PT	2909575
		1.3 A	QUINT4-PS/1 AC/24 DC/1.3/SC	2904597
		2.5 A	TRIO-PS/1 AC/24 DC/2.5	2866268
		2.5 A	QUINT4-PS/1 AC/24 DC/2.5/PT	2909576
		2.5 A	QUINT4-PS/1 AC/24 DC/2.5/SC	2904598
		3 A	TRIO-PS-2 G/1 AC/24 DC/3/C2LPS	2903147
		3.5 A	QUINT-PS/1 AC/24 DC/3.5	2866747
		3.75 A	UNO-PS/1 AC/24 DC/90 W/C2LPS	2902994
		3.8 A	QUINT4-PS/1 AC/24 DC/3.8/PT	2909577
		3.8 A	QUINT4-PS/1 AC/24 DC/3.8/SC	2904599
		4 A	UNO-PS/1 AC/15 DC/60 W	2902992
		4.2 A	UNO-PS/1 AC/24 DC/100 W	2902993
		5 A	QUINT4-PS/1 AC/24 DC/5	2904600
		5 A	TRIO-PS-2G/1 AC/24 DC/5	2903148
		6.25 A	UNO-PS/1 AC/24 DC/150 W	2904376
		10 A	QUINT4-PS/1 AC/24 DC/10	2904601
		10 A	TRIO-PS-2 G/1 AC/24 DC/10	2903149
		10 A	UNO2-PS/1 AC/24 DC/240W	1096432
		20 A	QUINT4-PS/1 AC/24 DC/20	2904602
		20 A	TRIO-PS-2G/1 AC/24 DC/20	2903151
	40 A	QUINT4-PS/1 AC/24 DC/40	2904603	
	48 V DC	1.25 A	UNO-PS/1 AC/48 DC/60 W	2902995
		2.08 A	UNO-PS/1 AC/48 DC/100 W	2902996
		5 A	QUINT4-PS/1 AC/48 DC/5	2904610
5 A		TRIO-PS-2 G/1 AC/48 DC/5	2903159	
10 A		QUINT4-PS/1 AC/48 DC/10	2904611	
10 A		TRIO-PS-2 G/1 AC/48 DC/10	2903160	
	20 A	QUINT4-PS/1 AC/48 DC/20	2904612	
Phase	Output voltage	Output current	Type description	Order #
Three phase	24 V DC	5 A	QUINT4-PS/3 AC/24 DC/5	2904620
		5 A	TRIO-PS-2G/3 AC/24 DC/5	2903153
		10 A	QUINT4-PS/3 AC/24 DC/10	2904621
		10 A	TRIO-PS-2 G/3 AC/24 DC/10	2903154
		20 A	QUINT4-PS/3 AC/24 DC/20	2904622
		20 A	TRIO-PS-2 G/3 AC/24 DC/20	2903155
	40 A	QUINT4-PS/3 AC/24 DC/40	2904623	
	40 A	TRIO-PS-2 G/3 AC/24 DC/40	2903156	
	48 V DC	20 A	QUINT4-PS/3 AC/48 DC/20	2904627
Recommended surge protection/power supply input				
Phase	Voltage	Rated current	Type 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
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





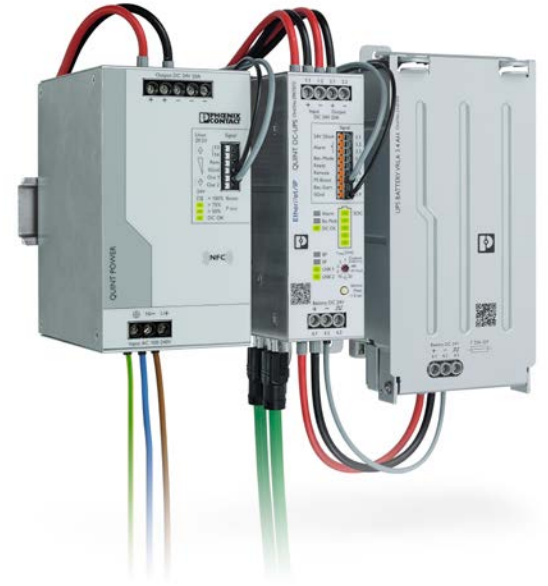
Uninterruptible Power Supplies (UPS)



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
<input type="checkbox"/>	Select UPS		
<input type="checkbox"/>	What input voltage?		
<input type="checkbox"/>	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 (W)		Output (A)	Description
24 V DC	24 V DC/120 W	5	QUINT4-UPS/24DC/24DC/5/USB	2906991
	24 V DC/240 W	10	QUINT4-UPS/24DC/24DC/10/USB	2907067
	24 V DC/480 W	20	QUINT4-UPS/24DC/24DC/20/USB	2907072
	24 V DC/960 W	40	QUINT4-UPS/24DC/24DC/40/USB	2907078

+			Energy storage
<input type="checkbox"/>	What type of energy storage device: VRLA or LI-ION?		
How much current does the battery need to supply the system and for how long? See chart below.			

VRLA

Load current	Buffer time										Hours														
	Seconds			Minutes							Hours														
	10	15	30	1	2	3	5	6	7	8	9	10	20	30	40	45	50	1	2	3	5	8	10	15	20
1 A																									
2 A																									
3 A																									
5 A																									
7 A																									
10 A																									
15 A																									
20 A																									
25 A																									
30 A																									
35 A																									
40 A																									

Legend:
■ 1274520 UPS-BAT/PB/24DC/1.2AH
■ 1274117 UPS-BAT/PB/24DC/4AH
■ 1354641 UPS-BAT/PB/24DC/40AH
■ 1274118 UPS-BAT/PB/24DC/7AH
■ 1274119 UPS-BAT/PB/24DC/12AH

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

1274520 UPS-BAT/PB/24DC/1.2AH 54 x 15T x 113 1.2 Ah		1274117 UPS-BAT/PB/24DC/4AH 85 x 191 x 110 4 Ah		1274118 UPS-BAT/PB/24DC/7AH 135 x 202 x 110 7 Ah	
1274119 UPS-BAT/VRLA/24DC/12AH 202 x 202 x 110 12 Ah		1354641 UPS-BAT/PB/24DC/40AH 330 x 221 x 197 40 Ah			

CAP or LI-ION or VRLA-WTR

Power	Buffer time										Hours													
	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	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	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	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	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	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	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	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	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	1+1	1+1	1+1	1+1

Legend:
■ 1396415 UPS-BAT/LI/24DC/128WH
■ 2320416 UPS-BAT/VRLA-WTR/24DC/13AH
■ 2908232 UPS-BAT/LI-ION/24DC/924WH
■ 2320429 UPS-BAT/VRLA-WTR/24DC/26AH

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

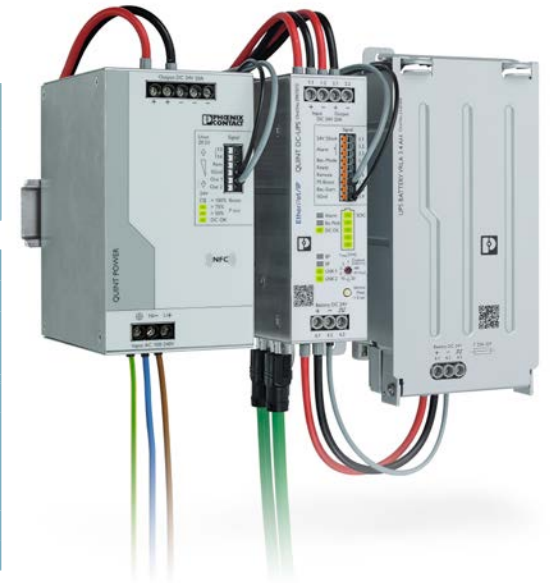
1396415 UPS-BAT/LI/24DC/128WH 135 x 202 x 110 128 Wh		2320416 UPS-BAT/VRLA-WTR/24DC/13AH 172 x 177 x 178 13 Ah	
2908232 UPS-LI-ION/24DC/924WH 264 x 224 x 197 924 Wh		2320429 UPS-BAT/VRLA-WTR/24DC/26AH 358 x 174 x 169 26 Ah	

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	

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

Energy storage type		VRLA																																																																																																																																																																																																																																																																																		
<table border="1"> <thead> <tr> <th rowspan="3">Power</th> <th colspan="10">Buffer time</th> </tr> <tr> <th colspan="10">Minutes</th> <th colspan="10">Hours</th> </tr> <tr> <th>2</th><th>3</th><th>4</th><th>5</th><th>8</th><th>10</th><th>15</th><th>20</th><th>25</th><th>30</th><th>40</th><th>50</th> <th>1</th><th>1.5</th><th>2</th><th>3</th><th>4</th><th>6</th><th>9</th><th>10</th> </tr> </thead> <tbody> <tr> <td>100 W</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td> </tr> <tr> <td>200 W</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td> </tr> <tr> <td>300 W</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td> </tr> <tr> <td>400 W</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td> </tr> <tr> <td>500 W</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td> </tr> <tr> <td>600 W</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td> </tr> <tr> <td>700 W</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td> </tr> <tr> <td>800 W</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td> </tr> <tr> <td>900 W</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td><td>1+1</td> </tr> </tbody> </table>				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	<table border="1"> <tr> <td>1274117</td> <td></td> <td>1274118</td> <td></td> </tr> <tr> <td>UPS-BAT/PB/24DC/4AH</td> <td></td> <td>UPS-BAT/PB/24DC/7AH</td> <td></td> </tr> <tr> <td>85 x 191 x 110</td> <td></td> <td>135 x 202 x 110</td> <td></td> </tr> <tr> <td>4 Ah</td> <td></td> <td>7 Ah</td> <td></td> </tr> <tr> <td>1274119</td> <td></td> <td>1354641</td> <td></td> </tr> <tr> <td>UPS-BAT/PB/24DC/12AH</td> <td></td> <td>UPS-BAT/PB/24DC/40AH</td> <td></td> </tr> <tr> <td>202 x 202 x 110</td> <td></td> <td>330 x 221 x 197</td> <td></td> </tr> <tr> <td>12 Ah</td> <td></td> <td>40 Ah</td> <td></td> </tr> </table>	1274117		1274118		UPS-BAT/PB/24DC/4AH		UPS-BAT/PB/24DC/7AH		85 x 191 x 110		135 x 202 x 110		4 Ah		7 Ah		1274119		1354641		UPS-BAT/PB/24DC/12AH		UPS-BAT/PB/24DC/40AH		202 x 202 x 110		330 x 221 x 197		12 Ah		40 Ah	
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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																																																																																																																																																																																																																																																																
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Uninterruptible Power Supplies (UPS)

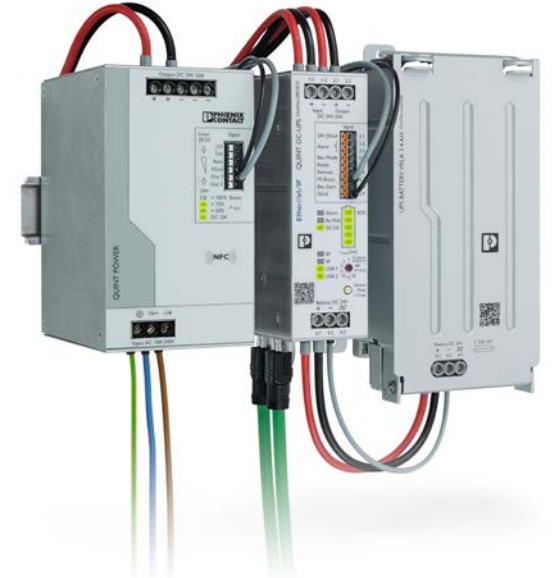
AC power – 500 VA offline



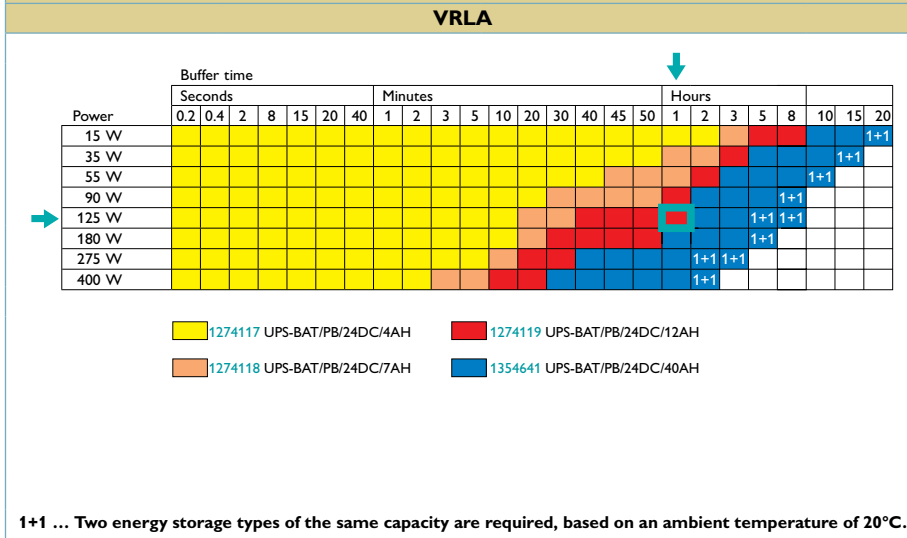
	Power supply AC-to-DC, DC-to-DC power supplies		+ UPS module Selected based on output requirements		+ Energy storage device How long does the system need to remain online once the main power is lost?
--	--	--	--	--	---

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 - 400 W/500 V A	QUINT4-UPS/1AC/1AC/500VA/USB	1067327

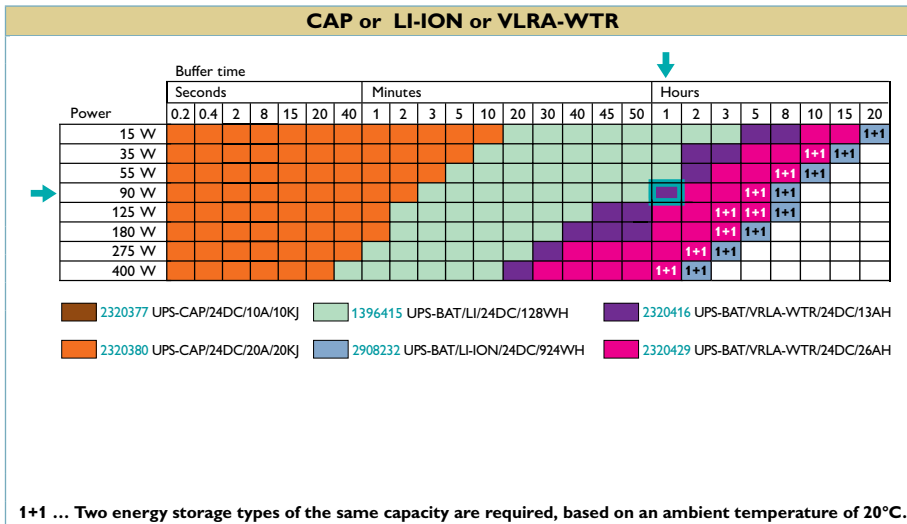


+ What type of energy storage device: VRLA or LI-ION?		
How much current does the battery need to supply the system and for how long? See chart below.		



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

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	
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UPS-BAT/PB/24DC/40AH					
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264 x 224 x 197		358 x 174 x 169	
924 Ah		26 Ah	

POWER MANAGEMENT SUITE – configuration and management software

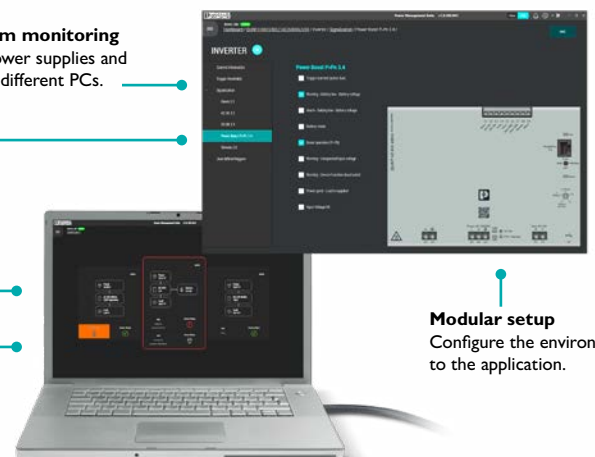
You can monitor and configure several power supplies and UPS systems simultaneously with this new software. It supports all devices with USB or EtherNet/IP™ interfaces. The software is available for you to download free of charge for QUINT4 and TRIO 2G devices.

Integrated system monitoring
Monitor several power supplies and UPS systems from different PCs.

Easy configuration
All connected systems can be configured via the user interface directly on the system or via a control room.

Dashboard
Clear, user-friendly dashboard provides an overview of all systems at all times.

PC shutdown
One or more PCs can be shut down in the event of a mains failure.






Modular setup
Configure the environment specific to the application.



Surge protection



Customer Service: (800) 808-7177 • Technical Service: (800) 322-3225 • Toll Free: (800) 888-7388

■ 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? ■ Which design: pluggable or non-pluggable? ■ With or without status monitoring? ■ Resulting Phoenix Contact part number								
Plugtrab (PT-IQ)								
Signal	Connection	Voltage	Grounding	Design	Monitoring	Type description	Order #	Plugtrab (PT-IQ) 
Loop	Screw	5 V DC	Direct	Pluggable	With	PT-IQ-2X2-5DC-UT	2800807	
		24 V DC	-	Pluggable	With	PT-IQ-PTB-UT	2800768	
			Direct	Pluggable	With	PT-IQ-2X2-24DC-UT	2800980	
		Indirect	Pluggable	With	PT-IQ-2X2+F-24DC-UT	2801264		
	48 V DC	Indirect	Pluggable	With	PT-IQ-2X2+F-48DC-UT	2800987		
	24 V DC	-	Pluggable	With	PT-IQ-PTB-PT	2801296		
		Direct	Pluggable	With	PT-IQ-2X2-24DC-PT	2801263		
	Indirect	Pluggable	With	PT-IQ-2X2+F-24DC-PT	2800981			
Discrete	Screw	48 V DC	Direct	Pluggable	With	PT-IQ-2X2-48DC-PT	2801265	
		5 V DC	Indirect	Pluggable	With	PT-IQ-4X1+F-24DC-UT	2800983	
		24 V DC	-	Pluggable	With	PT-IQ-PTB-UT	2800768	
			Direct	Pluggable	With	PT-IQ-4X1-24DC-UT	2800982	
	48 V DC	Direct	Pluggable	With	PT-IQ-5-HF+F-5DC-UT	2800798		
	24 V DC	-	Pluggable	With	PT-IQ-PTB-PT	2801296		
		Direct	Pluggable	With	PT-IQ-4X1-24DC-PT	2801271		
	Direct	Pluggable	With	PT-IQ-4X1+F-24DC-PT	2801272			
48 V DC	Indirect	Pluggable	With	PT-IQ-5-HF-5DC-PT	2801291			
Termitrab complete (TTC)								
Signal	Connection	Voltage	Grounding	Design	Monitoring	Type description	Order #	
Loop	Screw	12 V DC	Indirect	Pluggable	With	TTC-6P-1X2-F-12DC-UT-I	2908196	
		24 V DC	Indirect	Pluggable	With	TTC-6P-1X2-F-M-24DC-UT-I	2906781	
			Direct	Pluggable	With	TTC-6P-1X2-24DC-UT-I	2906809	
		Direct	Non-pluggable	With	TTC-6-1X2-24DC-UT	2906798		
	48 V DC	Direct	Pluggable	With	TTC-6P-1X2-48DC-UT-I	2908194		
	24 V DC	Indirect	Pluggable	With	TTC-6P-1X2-F-M-24DC-PT-I	2906790		
		Direct	Pluggable	With	TTC-6P-1X2-24DC-PT-I	2906815		
	Direct	Non-pluggable	With	TTC-6-1X2-24DC-PT	2906804			
Direct	Non-pluggable	Without	TTC-3-1x2-24DC-PT	2907325				
48 V DC	Direct	Pluggable	With	TTC-6P-1X2-48DC-PT-I	2908195			
24V DC	Indirect	Pluggable	With	TTC-6P-2X1-F-M-24DC-UT-I	2906784			
	Direct	Pluggable	With	TTC-6P-2X1-24DC-UT-I	2906810			
Direct	Non-pluggable	With	TTC-6-2X1-24DC-UT	2906799				
48 V DC	Indirect	Pluggable	With	TTC-6P-2X1-F-48DC-UT-I	2908208			
24 V DC	Indirect	Pluggable	With	TTC-6P-2X1-F-M-24DC-PT-I	2906794			
	Direct	Pluggable	With	TTC-6P-2X1-24DC-PT-I	2906816			
Direct	Non-pluggable	With	TTC-6-2X1-24DC-PT	2906805				
Direct	Non-pluggable	Without	TTC-3-2x1-24DC-PT	2907326				
48 V DC	Direct	Pluggable	With	TTC-6P-2X1-48DC-PT-I	2908204			
Coaxial surge protection (CN)								
Signal	Connection	Voltage	Grounding	Design	Monitoring	Type description	Order #	Coaxial (CN) 
Discrete	Screw	<55 Vp Core-ground	Direct	Non-pluggable	Without	CN-LAMBDA/4-0.47-BB	2800021	
		<18 Vp Core-ground	Direct	Non-pluggable	Without	CN-LAMBDA/4-2.25-BB	2801057	
		<11 Vp Core-ground	Direct	Non-pluggable	Without	CN-LAMBDA/4-5.9-BB	2838490	
		280 DC	Direct	Non-pluggable	Without	CN-UB-280DC-3-BB	2801050	
Ethernet surge protection (DT)								
Signal	Connection	Voltage	Grounding	Design	Monitoring	Type description	Order #	Data (DT) 
Discrete	RJ45	<3.3 V DC	Direct	Non-pluggable	Without	DT-LAN-CAT.6+	2881007	
		12 V DC	Direct	Non-pluggable	Without	DT-UFB-485/BS	2920612	
		185 V DC/130 V AC	Direct	Non-pluggable	Without	DT-TELE-SHDSL	2801593	
		185 V DC/130 V AC	Direct	Non-pluggable	Without	DT-TELE-RJ45	2882925	
	5.8 V DC	Direct	Non-pluggable	Without	DT-UFB-IB-RB0	2800056		




Circuit breakers


Customer Service (800) 808-7177 • Technical Service (800) 322-3225 • Toll Free (800) 888-7388




■ Do you require UL 489 or UL 1077 protection?
■ How many poles are required?
■ What trip-curve characteristic is required?
■ What ampere rating is required?
■ Do you need further functionality with accessories?
■ Resulting Phoenix Contact part number


TMC 8: UL 489-listed circuit breakers					
UL	# of poles	Trip curve	Ampere rating	Type description	Order #
UL 489	1	B	5	TMC 81B 05A	2907482
			10	TMC 81B 10A	2907487
			30	TMC 81B 30A	2907494
		C	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
			40	TMC 81C 40A	2907578
		D	2	TMC 81D 02A	2907627
			5	TMC 81D 05A	2907630
10	TMC 81D 10A		2907634		
UL 489	2	C	10	TMC 82C 10A	2907591
UL 489	2	D	2	TMC 82D 02A	2907652
UL 489	3	C	15	TMC 83C 15A	2907618


1 Pole



2 Pole


3 Pole



TMC 7: UL 1077-recognized circuit breakers					
UL	# of poles	Trip curve	Ampere rating	Type description	Order #
UL 1077	1	B	5	TMC 71B 05A	1019912
			10	TMC 71B 10A	1019916
			30	TMC 71B 30A	1019923
		C	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
			10	TMC 71C 10A	1019980
			15	TMC 71C 15A	1019983
			20	TMC 71C 20A	1019985
			40	TMC 71C 40A	1019989
		D	2	TMC 71D 02A	1020038
			5	TMC 71D 05A	1020041
10	TMC 71D 10A		1020045		
UL 1077	2	C	10	TMC 72C 10A	1020002
UL 1077	2	D	2	TMC 72D 02A	1020061
UL 1077	3	C	15	TMC 73C 15A	1020026


1 Pole



2 Pole


3 Pole


Electronic circuit breakers					
CBM -					
UL rating	Number of channels	Special approvals	Ampere rating	Type description	Order #
UL 508 Listed/UL 2367 Recognized	4 channel	C1D2	0.5-10A	CBM E4 24DC/0.5-10A NO-R	2905743
	8 channel	C1D2	0.5-10A	CBM E8 24DC/0.5-10A NO-R	2905744
CBMC -					
UL 508 Listed/UL 2367 Recognized	4 channel		1-10A	CBMC E4 24DC/1-10A IOL	2910411
	4 channel		1-10A	CBMC E4 24DC/1-10A NO	2906032
	4 channel		1-10A	CBMC E4 24DC/1-10A NO-C	2908716
	4 channel		1-10A	CBMC E4 24DC/1-10A S-R	1065729
	4 channel		1-10A	CBMC E4 24DC/1-10A S-R-C	1103875
	4 channel	NEC Class 2	1-4A	CBMC E4 24DC/1-4A NO	2906031
	4 channel	NEC Class 2	1-4A	CBMC E4 24DC/1-4A NO-C	2908713
	4 channel	NEC Class 2	1-4A	CBMC E4 24DC/1-4A S-R	1065727
	4 channel	NEC Class 2	1-4A	CBMC E4 24DC/1-4A S-R-C	1103876
	4 channel	NEC Class 2	1-4A+	CBMC E4 24DC/1-4A+ IOL	2910410
4 channel	NEC Class 2	1-4A+ NO-C	CBMC E4 24DC/1-4A+ NO-C	1021728	
PTCB -					
UL 508 Listed/UL 2367 Recognized	1 channel	C1D2, NEC Class 2	1-3A	PTCB E1 24DC/1-3A NO	2909909
	1 channel	C1D2	1-8A	PTCB E1 24DC/1-8A NO	2908262
	1 channel	C1D2, NEC Class 2	1A	PTCB E1 24DC/1A NO	2909902
	1 channel	C1D2, NEC Class 2	2A	PTCB E1 24DC/2A NO	2909903
	1 channel	C1D2, NEC Class 2	3A	PTCB E1 24DC/3A NO	2909904
	1 channel	C1D2	4A	PTCB E1 24DC/4A NO	2909906
	1 channel	C1D2	6A	PTCB E1 24DC/6A NO	2909908
	1 channel	C1D2	8A	PTCB E1 24DC/8A NO	2909910
	1 channel	C1D2, NEC Class 2	1-4A	PTCB E1 24DC/1-4A SI-R	1135753
	1 channel	C1D2	1-8A	PTCB E1 24DC/1-8A SI-R	1135752








Modular terminal blocks





CLIPLINE complete: All connection methods – one system. Achieve complete flexibility with the power to freely combine terminal blocks with different connection technologies. Save on cost with 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 part number
■ How many connection points?	■ What accessories are needed?
■ How many endcovers are needed?	


Push-in (PT)											
AWG	I _{max}	Connections	Description	Order #	Cover	Bridge (2-position)	Screwdriver	Marking		Image	
								Terminal	Wire		
26-14	15	2	PT 1.5/S*	3208100	3208142	3213014	1204504	0829486	See Marking Guide	 <ul style="list-style-type: none"> Reliable push-in leg 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 Uniform Push-in Technology available on thousands of Phoenix Contact parts Save money with uniform bridging, marking, and accessories 	
	-		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	See Marking Guide		
	-		PT 2.5-PE	3209536							
	20	3	PT 2.5-TWIN	3209549							3030488
	20	4	PT 2.5-QUATTRO	3209578							3030514
	20		PTTB 2.5	3210567							3211634
-	PTTB 2.5-PE	3210596									
24-10	30	2	PT 4	3211757	3030420	3030336	1204517	0828746		See Marking Guide	
	-		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		
	30	4	PT 4-QUATTRO	3211797					3208979		
	28		PTTB 4	3211786					3030462		
-	PTTB 4-PE	3211854									

* 18 AWG max using plastic, insulated ferrule. See UL file for Use Group Rating

Screw clamp (UT)											
26-12	20	2	UT 2.5	3044076	3047028	3030161	1212587	0828734	See Marking Guide	 <ul style="list-style-type: none"> Universal multi-wire connection with highest pullout force Maintenance-free conductor connection with the Reakdyn® principle – there is no need to tighten the terminal block screws Save money with uniform bridging, marking, and accessories 	
	-		UT 2.5-PE	3044092							
	20	3	UT 2.5-TWIN	3044513							3047141
	20	4	UT 2.5-QUATTRO	3044542							3047170
	20		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	See Marking Guide		
	-		UT 4-PE	3044128							-
	6.3		UT 4-HESI (5X20 FUSE)	3046032						-	
	6.3	UT 4-HESILED 24 (5X20 FUSE)	3046090	-							
	30	3	UT 4-TWIN	3044364						3047141	
	30	4	UT 4-QUATTRO	3044571						3047170	
	30		UTTB 4	3044814						3047293	
-	UTTB4-PE	3044759									
26-8	50	2	UT-6	3044131	3047028	3030284	1205066	0828740		See Marking Guide	
	-		UT6-PE	3044157							


Spring cage (ST)										
28-12	20	2	ST 2.5	3031212	3030417	3030161	1204517	0828744	See Marking Guide	 <ul style="list-style-type: none"> Standard spring cage for error-free vibration resistance Save money with uniform bridging, marking, and accessories
	20	4	ST 2.5-QUATTRO	3031306	3030514					
28-10	30	2	ST 4	3031364	3030420	3030336	1204517	0828746	See Marking Guide	
	6.3	2	ST 4-HESILED 24 (5X20 FUSE)	3036547	-					

Insulation displacement (IDC)										
24-16	10	2	QTC 1.5	3205019	3205161	3030161	1204517	0828744	See Marking Guide	 <ul style="list-style-type: none"> No stripping, no crimping – simply cut the cable to length and make contact within seconds Save money with uniform bridging, marking, and accessories
	10	4	QTC 1.5-QUATTRO	3205077	3205174					
20-14	15	2	QTC 2.5	3206416	3206568	3030336	1204517	0828746	See Marking Guide	
	15	4	QTC 2.5-QUATTRO	3206446	3206449					
	6.3	2	QTC 2.5-HESILED 24 (5X20 FUSE)	3050374	3206571					

Bolt connection (RT)										
26-14	24	2	RT-3	3049013	3049097	3030336	1205053	0828740	See Marking Guide	 <ul style="list-style-type: none"> Captive hardware with a hinged cover delivers a safe termination Save money with uniform bridging, marking, and accessories
26-10	41	2	RT-5	3049026		3030284	1205079	0829144		
14-2	125	2	RT-8	3049042	3049194	3005947	1205066	-----		

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





Through-panel connections



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■	What type of through-panel connection?
■	How many positions (signals) are required?
■	What housing material? What IP rating is required?
■	What cable diameter?
■	Top or side entry for the cable?
■	Single or double latch?
■	Is NEMA protection required?
■	What UL voltage and current ratings are required?
■	Resulting Phoenix Contact part numbers

HEAVYCON											
Positions	Material-IP rating	Cable diameter	Cable exit	Latching	NEMA protection	UL voltage	UL current	Order #			
6	Plastic - IP66	7-13 mm	Either	Single	12	600 V	13 A	1407710			
		9-13 mm	Either		4, 4x, 12			1411487			
	Aluminum - IP66/67	6-12 mm	Side					1416353			
			Top					1416344			
10	Plastic - IP66	9-17 mm	Either	Double	12	600 V	13 A	1407711			
				Single	12			1408791			
	Aluminum - IP66/67	11-16 mm	Either	Double	4, 4x, 12			1411488			
				Single	4, 4x, 12			1411491			
		11-17 mm	Side	Double	4, 4x, 12			1416355			
			Top	Single				1416354			
	16	Plastic - IP66	9-17 mm	Either	Double			12	600 V	13 A	1407712
					Single			12			1408793
Aluminum - IP66/67		11-16 mm	Either	Double	4, 4x, 12	1411489					
				Single	4, 4x, 12	1411492					
		11-17 mm	Side	Double	4, 4x, 12	1416357					
			Top	Single		1416356					
24		Plastic - IP66	11-21 mm	Either	Double	12	600 V	13 A			1407713
					Single	12					1408794
	Aluminum - IP66/67	14-21 mm	Either	Double	4, 4x, 12	1411490					
				Single	4, 4x, 12	1411493					
		15-21 mm	Side	Double	4, 4x, 12	1416359					
			Top	Single		1416358					
					Double	4, 4x, 12					1416352
					Single						1416351



Ethernet cordsets

■	How many wires (or twisted pairs) are required for your Ethernet cable?
■	What configuration of connector heads is required?
■	What cable length is required? (M = meters)
■	Resulting Phoenix Contact part numbers



		High-flex Ethernet 600 V jacket cables									
		Configuration	0.5 M	2 M	5 M	10 M	15 M	20 M	30 M	40 M	Configurable
4-wire (2-pair) 100 Mbps	M12 D-code	M12 Male straight / Open end	-	1192174	1192173	1192172	1192171	1192170	1192169	1192168	1201754/.../...
		M12 Male 90° / Open end	-	1192167	1192166	1192165	-	-	-	-	1201755/.../...
		M12 Female straight / Open end	-	1192164	1192161	1192159	-	-	-	-	1201757/.../...
		M12 Female 90° / Open end	-	1192158	1192157	1192156	-	-	-	-	1201753/.../...
		M12 Male straight / M12 Male straight	1192155	1192154	1192152	1192151	1192150	1192149	1192148	1192147	1201758/.../...
	RJ45	Male straight / Female straight	1192146	1192145	-	-	-	-	-	-	1201759/.../...
		M12 Male 90° / M12 Male 90°	1192144	1192143	-	-	-	-	-	-	1201760/.../...
		M12 Male 90° / M12 Female 90°	1192142	1192141	-	-	-	-	-	-	1201761/.../...
		M12 Male straight / RJ45 Straight	1192140	1192139	1192138	1192137	1192136	1192135	1192134	1192133	1201762/.../...
		M12 Male 90° / RJ45 Straight	1192132	1192131	-	-	-	-	-	-	1201763/.../...
	RJ45 Straight / RJ45 Straight	1199415	1199412	1199410	1199408	1199405	1199404	-	-	-	
8-wire (4-pair) 1 Gbps	M12 A-Code	M12 Male straight / Open end	-	1192130	1192129	1192128	1192126	1192124	1192123	1192122	1201764/.../...
		M12 Male 90° / Open end	-	1192121	1192120	1192119	-	-	-	-	1201765/.../...
		M12 Female straight / Open end	-	1192118	1192117	1192116	-	-	-	-	1201766/.../...
		M12 Female 90° / Open end	-	1192115	1192114	1192113	-	-	-	-	1201767/.../...
		M12 Male straight / M12 Male straight	1192112	1192111	1192110	1192109	1192108	1192107	1192106	1192105	1201768/.../...
	RJ45	Male straight / Female straight	1192104	1192103	-	-	-	-	-	-	1201770/.../...
		M12 Male 90° / M12 Male 90°	1192102	1192101	-	-	-	-	-	-	1201771/.../...
		M12 Male 90° / M12 Female 90°	1192100	1192098	-	-	-	-	-	-	1201773/.../...
		M12 Male straight / RJ45 Straight	1192096	1192095	1192094	1192093	1192092	1192091	1192090	1192089	1201774/.../...
		M12 Male 90° / RJ45 Straight	1192088	1192087	-	-	-	-	-	-	1201775/.../...
	RJ45 Straight / RJ45 Straight	1199427	1199425	1199423	1199421	1199420	1199418	-	-	-	



Sensor cordsets

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- What thread size do you need on your cordset: M8 "pico" or M12 "euro"?
 - 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 part numbers (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 the 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 PVC jacket #	Non-shielded CMAT #	Shielded PVC jacket #	Shielded CMAT #	Front-mount receptacle	Rear-mount receptacle	
3-position Female Male 	M8 3-pos.	Male/female	Straight	1.5 m	1406271	1405935	1406042	1405828	1500350	1453449	
			Straight		1406317	1405956	1406062	1405834	1500334	1453478	
		Female	Right angle		1406320	1405957	1406065	1405835	1500334	1453478	
			Straight		1406280	1405939	1406047	1405830	1500350	1453449	
		Male	Right angle		1406292	1405944	1406059	1405833	1500350	1453449	
			Straight		1406316	1405956	1406061	1405834	1500334	1453478	
	M8 3-pos.	Female	Male	Straight	10 m	1406319	1405957	1406064	1405835	1500334	1453478
				Right angle		1406279	1405939	1406046	1405830	1500350	1453449
		Straight	1406291	1405944		1406058	1405833	1500350	1453449		
		Male	Right angle	1406292		1405944	1406059	1405833	1500350	1453449	
			Straight	1406316		1405956	1406061	1405834	1500334	1453478	
		Straight	1406291	1405944		1406058	1405833	1500350	1453449		

M12											
	Positions	Gender	Head orientation	Length	Non-shielded PVC jacket #	Non-shielded CMAT #	Shielded PVC jacket #	Shielded CMAT #	Front-mount receptacle	Rear-mount receptacle	
3-position Female Male 	M12 3-pos.	Male/female	Straight	5 m	1417880	1405947	1417886	1405927	1523434	1419632	
			Straight		1406323	1405958	1406266	1405933	1523450	1419629	
		Female	Right angle		1406326	1405959	1406269	1405934	1523450	1419629	
			Straight		1406303	1405949	1406256	1405929	1523434	1419632	
		Male	Right angle		1406314	1405955	1406263	1405932	1523434	1419632	
			Straight		1417881	1405947	1417887	1405927	1523434	1419632	
	M12 3-pos.	Female	Male	Straight	10 m	1406322	1405958	1406265	1405933	1523450	1419629
				Right angle		1406325	1405959	1406268	1405934	1523450	1419629
		Straight	1406302	1405949		1406255	1405929	1523434	1419632		
		Male	Right angle	1406313		1405955	1406262	1405932	1523434	1419632	
			Straight	1417891		1405914	1417897	1405894	1523434	1419632	
		Straight	1406245	1405925		1406188	1405900	1523450	1419629		



Interposing relays*

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■ What application or load are you switching: electromechanical or solid state?	■ What connection technology: screw terminal (UT) or push-in (PT)?
■ What is the input coil voltage: DC or AC?	■ Which kind of specialty relays: hazardous location, sensor/actuator, or filter base?
■ What is your output current (Amps)? (Ratings are for resistive loads)	■ Resulting Phoenix Contact part number
■ How many sets of contacts do you need: SPDT, DPDT, etc.?	■ What accessories are needed?

Electromechanical relays						
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	
			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
	10 A	DPDT - 14 mm	Screw	PLC-RSC-24 DC/21-21	2967060	
			Push-in	PLC-RPT-24 DC/21-21	2900330	
		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	

PLC relay assembly with electromechanical relay



Solid-state relays					
Input coil voltage	Output current	Sets of contacts	Termination style	Description	Order #
5 V DC	3 A	N/O ONLY - 6.2 mm	Screw	PLC-OSC-5 DC/24 DC/2/ACT	2980144
			Push-in	PLC-OPT-5 DC/24 DC/2/ACT	2900375
24 V DC	100 mA	N/O 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	N/O 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	N/O ONLY - 6.2 mm	Screw	PLC-OSC-120UC/24 DC/2	2966650
			Push-in	PLC-OPT-120UC/24 DC/2	2900355

PLC relay assembly with solid-state relay



Note: AC outputs also available

Triple-rated, hazardous location relays: www.phoenixcontact.com/HAZLOCRELAYS					
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
			Screw	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
			Screw	PLC-RSC-24 DC/21/EX	2909524
	6 A	SPDT - 6.2 mm	Push-in	PLC-RPT-24 DC/21/EX	2909528
			Screw	PLC-RSC-24 DC/21-21/EX	2909509
	DPDT - 14 mm	Push-in	PLC-RPT-24 DC/21-21/EX	2909514	
		Screw	PLC-RSC-24 DC/21/HC/EX	2909519	
120 V AC or DC	6 A	SPDT - 6.2 mm	Screw	PLC-RSC-120UC/21/EX	2909525
			Screw	PLC-RSC-120UC/21-21/EX	2909511
	10 A	SPDT - 14 mm	Screw	PLC-RSC-120UC/21/HC/EX	2909520
			Screw	PLC-RSC-120UC/21/HC/EX	2909520



Note: Additional coil voltages and connection technology options are available

Specialty					Specialty type
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
			Screw	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	
		SPDT - 6.2 mm	REL-MR-24 DC/21	2961105	
24 V DC	6 A	DPDT - 14 mm	REL-MR-24 DC/21-21	2961192	
		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


* Certain restrictions apply. Go to www.phoenixcontact.com/LLW to review the terms and conditions.




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■ What application or load are you switching: electromechanical or solid state?	■ How many sets of contacts do you need? SPDT, DPDT, etc.
■ What is the input coil voltage: DC or AC?	■ Which connection technology: screw terminal (UT) or push-in (PT)?
■ What is your output current (Amps)?	■ What accessories are needed?

RIF slimline relays						
	Input voltage	Output current	Sets of contacts	Termination style	Description	Order #
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	50 mA	Screw	RIF-1-RSC-LDP-24DC/1X21AU	2903354
				Push-in	RIF-1-RPT-LDP-24DC/1X21AU	2903338
		DPDT	50 mA	Screw	RIF-1-RSC-LDP-24DC/2X21AU	2903346
				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	




RIF-1
16 mm wide
75 mm tall
Pin contacts




RIF-2
31 mm wide
75 mm tall
Blade contacts


RIF ice cube relays						
	Input voltage	Output current	Sets of contacts	Termination style	Description	Order #
RIF-2	24 V DC	10 A	2PDT	Screw	RIF-2-RSC-LDP-24DC/2X21	2903326
				Push-in	RIF-2-RPT-LDP-24DC/2X21	2903315
	6 A	4PDT	Screw	RIF-2-RSC-LDP-24DC/4X21	2903320	
			Push-in	RIF-2-RPT-LDP-24DC/4X21	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	2903317		
		Push-in	RIF-2-RPT-LV-120AC/4X21	2903305		
RIF-3	24 V DC	10 A	2PDT	Screw	RIF-3-RSC-LDP-24DC/2X21	2903303
				Push-in	RIF-3-RPT-LDP-24DC/2X21	2903297
	8.5 A	3PDT	Screw	RIF-3-RSC-LDP-24DC/3X21	2903300	
			Push-in	RIF-3-RPT-LDP-24DC/3X21	2903294	
	120 V AC	7 A	2PDT	Screw	RIF-3-RSC-LV-120AC/2X21	2903302
				Push-in	RIF-3-RPT-LV-120AC/2X21	2903296
6 A	3PDT	Screw	RIF-3-RSC-LV-120AC/3X21	2903299		
		Push-in	RIF-3-RPT-LV-120AC/3X21	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	RIF-4-RSC-LV-120AC/3X21	2903287
Push-in				RIF-4-RPT-LV-120AC/3X21	2903277	
RIF-FG	24 V DC	6 A	DPDT	Push-in	RIF-1-RPT-LDP-24DC/2X21/FG	2908215
				Screw	RIF-1-RSC-LDP-24DC/2X21/FG	2909848
				Push-in	RIF-RPT-LDP-24DC/2X2/2X1/AU/FG	1148699
				Push-in	RIF-RPT-LDP-24DC/1X2/3X1/AU/FG	1148703



RIF-3
40 mm wide
Pin contacts



RIF-4
42 mm wide
Small contactor style
Blade contacts




RIF-FG
Force-guided relays
Pin contacts

NOTE: Many additional contact arrangement and coil voltage options exist. Please visit www.phoenixcontact.com/rifline for more information.

Basic stand-alone hybrid motor starters - CONTACTRON classic					
Type	Control voltage/ Operating voltage	Output current	Termination style	Description	Order #
Direct starter w/OL	24 V DC/500 V AC	2.4 A/1 HP @ 480 V AC	Screw	ELR H3-I-SC- 24DC/500AC-2	2900543
		9 A/5 HP @ 480 V AC		ELR H3-I-SC- 24DC/500AC-9	2900545
Reversing starter w/OL		2.4 A/1 HP @ 480 V AC		ELR H5-I-SC- 24DC/500AC-2	2900574
		9 A/5 HP @ 480 V AC		ELR H5-I-SC- 24DC/500AC-9	2900576

Modular hybrid motor starters - CONTACTRON pro					
Type	Control voltage/ Operating voltage	Output current	Termination style	Description	Order #
Direct starter w/ OL, E-stop	24 V DC/500 V AC	3 A/1.5 HP @ 480 V AC	Push-in	ELR H3-IS-PT- 24DC/500AC-3-P	2909570
			Screw	ELR H3-IS-SC- 24DC/500AC-3-P	2908700
		9 A/5 HP @ 480 V AC	Push-in	ELR H3-IS-PT- 24DC/500AC-9-P	2909568
			Screw	ELR H3-IS-SC- 24DC/500AC-9-P	2908698
Reversing starter w/ OL, E-stop		3 A/1.5 HP @ 480 V AC	Push-in	ELR H5-IS-PT- 24DC/500AC-3-P	2909569
			Screw	ELR H5-IS-SC- 24DC/500AC-3-P	2908699
		9 A/5 HP @ 480 V AC	Push-in	ELR H5-IS-PT- 24DC/500AC-9-P	2909567
			Screw	ELR H5-IS-SC- 24DC/500AC-9-P	2908697



CONTACTRON pro
3-phase hybrid motor starters
22.5 mm width
E-stop up to SIL 3/PL e

* Certain restrictions apply. Go to www.phoenixcontact.com/LLW to review the terms and conditions.



Signal conditioners

Customer Service: (800) 808-7177 • Technical Service: (800) 322-3225 • Toll Free: (800) 888-7388



Legend				
■	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 part number			
■	Do you have SIL or EX requirements?			
■	EX intrinsic safety module with safety data			
Fixed signal conversion and isolation				
Module power	Input signal	Output signal	Type description	Order #
Line	4-20mA	4-20mA	MINI MCR-2-I-I	2901998
Line	0-10 V DC	0-10 V DC	MINI MCR-2-U-U	2902042
Line	4-20mA	0-10 V DC	MINI MCR-2-I4-U	2902002
Line	0-10 V DC	4-20mA	MINI MCR-2-U-I4	2902029
Line	4-20mA/HART	4-20mA/HART	MINI MCR-2-RPSS-I-I	2902014
Universal and configurable analog signal conversion and isolation				
Module power	Input signal	Output signal	Type description	Order #
Line	Universal	Universal	MINI MCR-2-UI-UI	2902037
Line	Universal	Universal	MINI MCR-2-UNI-UI-UIRO	2902026
Line	Universal	Universal	MACX MCR-UI-UI-NC	2811446
Temperature signal conversion and isolation				
Module power	Input signal	Output signal	Type description	Order #
Loop	PT100	Common analog	MINI MCR-SL-PT100-LP-NC	2810308
Line	RTD	Universal analog	MINI MCR-2-RTD-UI	2902049
Line	Thermocouple	Universal analog	MINI MCR-2-TC-UI	2902055
Line	Universal analog	Universal analog w-set point	MACX MCR-T-UI-UP	2811394
Line	Universal analog	Universal analog w-3 set points	MACX MCR-T-UIREL-UP	2811378
Line	Universal temperature	N.O. relay set point	MINI MCR-2-T-REL	2905632
Loop	Universal temperature	4-20mA/ HART - head mount	FA MCR-HT-TS-I-OLP-PT	1105515
Loop	Universal temperature	4-20mA/ HART - head mount	FA MCR-EX-HT-TS-I-OLP-PT	1105681
Loop	Universal temperature	4-20mA/ HART	MACX MCR-TS-I-OLP	2908662
Loop	Universal temperature	4-20mA/ HART	MACX MCR-EX-TS-I-OLP	2908660
Line	RTD	4-20mA	MACX MCR-EX-RTD-I	1050222
Line	Thermocouple	4-20mA	MACX MCR-EX-TC-I	1050223
Line	Thermocouple	Universal w-set point	MACX MCR-EX-T-UI-UP	2865654
Loop-powered signal conversion and isolation				
Module power	Input signal	Output signal	Type description	Order #
Loop	Active Universal analog	Active 4-20mA	MINI MCR-2-UI-I-OLP	2902061
Loop	Active 4-20mA	Passive 4-20mA	MINI MCR-2-I-I-ILP	2901994
Loop	Active 4-20mA	Passive 4-20mA	MINI MCR-2-2I-2I-ILP	2901996
Loop	Passive 4-20mA	Active 4-20mA	MINI MCR-2-RPS-I-I-OLP	2906446
Specialty signal conversion and isolation				
Module power	Input signal	Output signal	Type description	Order #
Line	Universal analog	2x 4-20mA	MINI MCR-2-UNI-UI-2UI	2905026
Line	4-20mA/HART	2x 4-20mA/HART	MINI MCR-2-RPSS-I-2I	2905628
Line	Frequency and PWM	Analog	MINI MCR-2-F-UI	2902056
Line	Analog	Frequency and set point	MINI MCR-2-UI-FRO	2902031
Line	Potentiometer	Analog	MINI MCR-2-POT-UI	2902016
Line	Universal analog	Set point/relay out	MINI MCR-2-UI-REL	2902033
Line	Load cell/strain gage	4-20ma/0-10 V	MCR-SGA-4/6-DC	5604058
Digital outputs/solenoid drivers for hazardous locations				
Module power	Input signal	Output signal	Type description	Order #
Loop	27.7V, 101mA	Loop-powered 20...30 V DC	MACX MCR-EX-SL-SD-24-48-LP	2865609
Loop	25.1V, 188mA	Loop-powered 20...30 V DC	MACX MCR-EX-SL-SD-21-60-LP	2865515
Line	25.3V, 94mA	Switching level 15...30 V DC	MACX MCR-EX-SL-SD-23-48-LFD	2924867
Line	27.06V, 91.11mA	Switching level 15...30 V DC	MACX MCR-EX-SL-SD-24-48-LFD	2906155
Digital inputs for hazardous locations				
Module power	Input signal	Output signal	Type description	Order #
Line	NAMUR	1x NO, NC (SPDT)	MACX MCR-EX-SL-NAM-R	2865434
Line	2x NAMUR	2x NO (SPST)	MACX MCR-EX-SL-2NAM-RO	2865476
Line	2x NAMUR	2x NO, NC (SPDT)	MACX MCR-EX-SL-2NAM-R-UP	2865984
Line	NAMUR	2x transistors	MACX MCR-EX-SL-NAM-2T	2865463
HART compatible				
Module power	Input signal	Output signal	Type description	Order #
Line	4-20mA/HART	4-20mA/HART	MINI MCR-2-RPSS-I-I	2901998
Line	4-20mA/HART	4-20mA/HART	MACX MCR-SL-RPSSI-I	2865955
Line	4-20mA/HART	4-20mA/HART	MACX MCR-EX-SL-RPSSI-I	2865340
Line	2x 4-20mA/HART	2x 4-20mA/HART	MACX MCR-EX-SL-RPSSI-2I-2I	2865382
Line	4-20mA/HART	4-20mA/HART output	MACX MCR-EX-IDS-I-I	2908060
Specialty analog displays				
Module power	Input signal	Output signal	Type description	Order #
Line	Universal analog/temperature	Universal display w-2 set points	FA MCR-D-TUI-UI-2REL-UP	2907064
Loop	Universal analog/temperature	Universal display w-2 set points	FA MCR-EX-DS-I-I-OLP	2908800

MINI MCR-2



MACX MCR



FA MCR display





Ethernet switches

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How many copper ports are required?		Are dual-power input and alarm contacts required?					
Are specialty ports required: Power over Ethernet (PoE) and/or fiber optic?		Is the installation in a hazardous location?					
What is the total number of ports required?		Are extreme environmental conditions present?					
What speed is required in the network?		Resulting Phoenix Contact part number					
1000 series							
Copper ports	Specialty ports	Total ports	Speed	Power alarm	Hazardous	Type description	Order #
5		5	10/100	N	Y	FL SWITCH 1005N	1085039
8		8	10/100	N	Y	FL SWITCH 1008N	1085256
16		16	10/100	N	Y	FL SWITCH 1016N	1085255
5		5	Gigabit	N	Y	FL SWITCH 1105N	1085254
8		8	Gigabit	N	Y	FL SWITCH 1108N	1085243
4	1 Fiber, SC MM	5	10/100	N	Y	FL SWITCH 1004N-FX	1084159
4	1 Fiber, SC SM	5	10/100	N	Y	FL SWITCH 1004N-FX SM	1085214
4	1 Fiber, ST MM	5	10/100	N	Y	FL SWITCH 1004N-FX ST	1085179
4	1 Fiber SFP	5	10/100	N	Y	FL SWITCH 1004N-SFX	1085177
5	2 Fiber SFP	7	10/100	N	Y	FL SWITCH 1005N-2SFX	1085176
4	1 Fiber SFP	5	Gigabit	N	Y	FL SWITCH 1104N-SFP	1085173
5	2 Fiber SFP	7	Gigabit	N	Y	FL SWITCH 1105N-2SFP	1085171
5		5	10/100	N	Y	FL SWITCH 1005NT	1085170
5		5	Gigabit	N	Y	FL SWITCH 1105NT	1085163
8		8	10/100	N	Y	FL SWITCH 1008NT	1085165
8		8	Gigabit	N	Y	FL SWITCH 1108NT	1085162
16		16	Gigabit	N	Y	FL SWITCH 1116N	1085219
4	1 Fiber SFP	5	10/100	N	Y	FL SWITCH 1004NT-SFX	1085169
5	2 Fiber SFP	7	10/100	N	Y	FL SWITCH 1005NT-2SFX	1085164
12	2 Fiber SFP	14	10/100	N	Y	FL SWITCH 1012NT-2SFP	1249598
5		5	10/100	N	Y	FL SWITCH 1005NTC	1085161
8		8	10/100	N	Y	FL SWITCH 1008NTC	1085156
Rack mount							
24		24	10/100	N	N	FL SWITCH 1824	2891041
24		24	Gigabit	N	N	FL SWITCH 1924	2891057
PoE							
1	4POE+	5	10/100	Y	N	FL SWITCH 1001T-4POE	2891064
1	4POE+	5	Gigabit	N	N	FL SWITCH 1001-4POE-GT	1102077
0	8POE+	8	Gigabit	N	N	FL SWITCH 1000-8POE-GT	1102079
0	2 POE+/2 Fiber SFP	4	Gigabit	Y	N	FL SWITCH 1000T-2POE-GT-2SFP	1026765
1	4POE+/1 Fiber SFP	6	Gigabit	Y	N	FL SWITCH 1001T-4POE-GT-SFP	1026932
1	4POE+	5	Gigabit	Y	N	FL SWITCH 1001T-4POE-GT	1026937
IP67							
5		5	10/100	N	N	FL SWITCH 1605 M12	2700200
8		8	10/100	N	N	FL SWITCH 1608	1196227
8		8	Gigabit	N	N	FL SWITCH 1708	1196228



What is the width of your Phoenix Contact terminal block?*
 Will the marker be on the top or side of the terminal block?
 How many markers per card do you want?

Terminal block marking				
TB width (mm)	Marking location	No. markers/card	Description	Order #
5.2	Top	72	UCT-TM 5	0828734
6.2	Top	60	UCT-TM 6	0828736
8.2	Top	42	UCT-TM 8	0828740
5.2	Side	72	UCT-TMF 5	0828744
6.2	Side	60	UCT-TMF 6	0828746
8.2	Side	42	UCT-TMF 8	0828748

* Contact technical service for markers for other manufacturers' terminal blocks.

What material do you use to mark wires: shrink sleeves or self-laminating strips?
 What size wires are you marking?
 What is the desired print area?
 How many markers or labels per roll do you want?

Conductor/cable marking					
	Shrink sleeves				
	Conductor size	Lettering field size [mm/in]	Markers per roll	Description	Order #
Shrink sleeves	1 - 3.3 mm or 18 - 8 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
		60 x 5 / 2.36 x 0.20	5000	WMS 3,2 (30X5)RXL	0804268
			250	WMS 3,2 (60X5)R	0800364
	1.6 - 4.8 mm or 14 - 6 AWG	15 x 9 / 0.59 x 0.35	1000	WMS 3,2 (60X5)RL	0800384
			4000	WMS 4,8 (15X9)R	0800382
		30 x 9 / 1.18 x 0.35	10000	WMS 4,8 (15X9)RL	0800397
			500	WMS 4,8 (30X9)R	0800375
		60 x 9 / 2.36 x 0.35	2000	WMS 4,8 (30X9)RL	0800388
			5000	WMS 4,8 (30X9)RXL	0800395
2.4 - 6.4 mm or 12 - 4 AWG	15 x 10 / 0.59 x 0.39	250	WMS 4,8 (60X9)R	0800366	
		1000	WMS 4,8 (60X9)RL	0800385	
	30 x 10 / 1.18 x 0.39	2500	WMS 4,8 (60X9)RXL	0800393	
		1000	WMS 6,4 (15X10)R	0801593	
	60 x 10 / 2.36 x 0.39	4000	WMS 6,4 (15X10)RL	0801594	
		10000	WMS 6,4 (15X10)RXL	0801595	
3.5 - 9.5 mm or 8 AWG - 2/0	30 x 16 / 1.18 x 0.63	500	WMS 6,4 (30X10)R	0800376	
		2000	WMS 6,4 (30X10)RL	0800377	
	60 x 16 / 2.36 x 0.63	250	WMS 9,5 (30X16)R	0804267	
		1000	WMS 9,5 (30X16)RL	0800368	

Cable marker label				
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
< 7.5mm or < 2 AWG	17 x 9 / 0.67 x 0.35	1500	WML 7,5 (17X9)R	0828444
		2100	WML 7,5 (25X13)R	0800075
< 12 mm or < 4/0	25 x 19 / 0.98 x 0.75	1000	WML 12 (25X19)R	0800076
		1500	WML 14 (25X19)R	0817536
< 14 mm or < 0.55 in Ø	38 x 19 / 1.5 x 0.75	1000	WML 14 (38X19)R	0817552
< 20 mm or < 0.79 in Ø	31 x 25 / 1.22 x 0.98	500	WML 20 (31X25)R	0828457
< 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. Visit: www.phoenixcontact.com/wiremarking

What are you marking? Is it 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 a magazine that matches the card material

Printers				
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
Cartridge	Low	Handheld	THERMOMARK GO.K SET	1184146
Cartridge	Low	Handheld	THERMOMARK GO.K	1184148
Roll	> 50,000 labels/yr.	Large/desktop	THERMOMARK ROLLMASTER 300	0804501

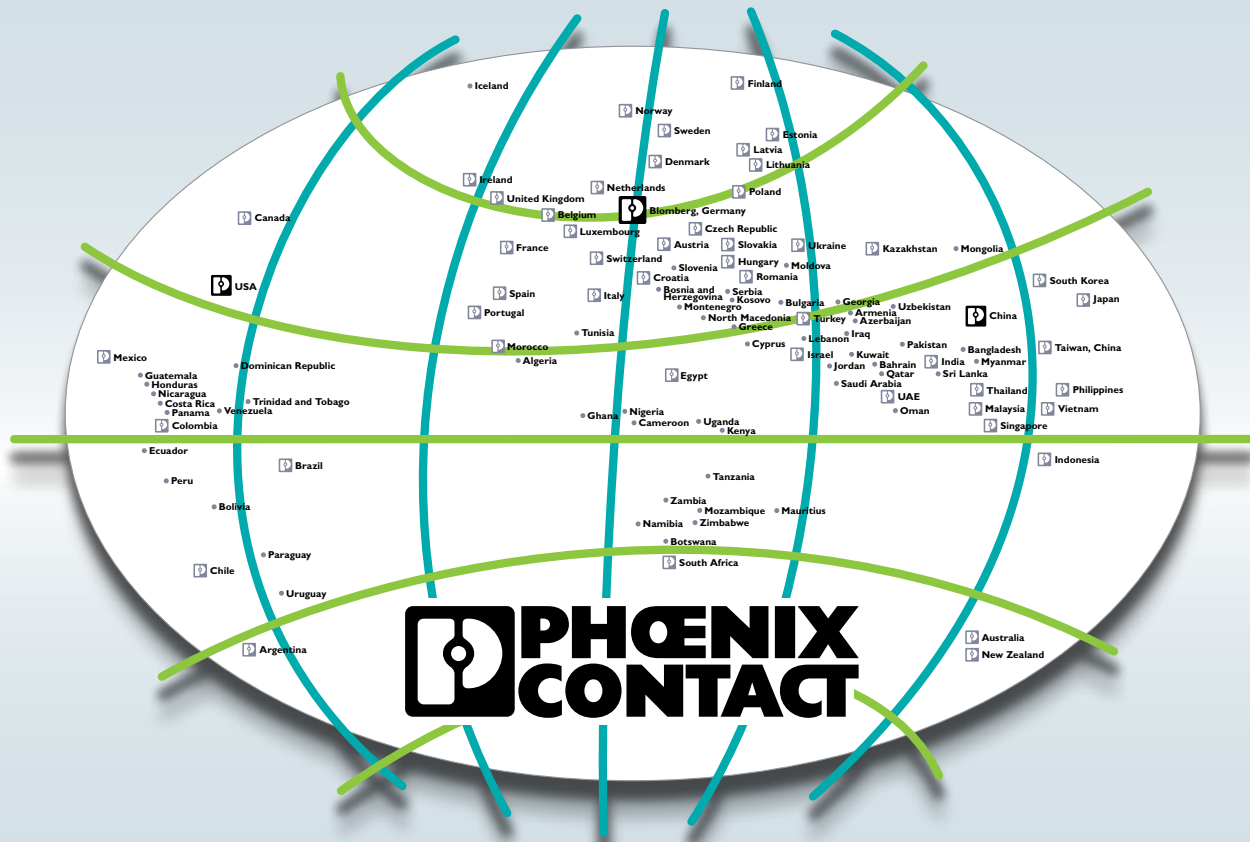




How do you process and mark conductors?		Do you ferrule wires? What gauge wire are you using?	
What do you use to cut conductors, cables, and cable binders?		What tools do you need to terminate conductors?	
What do you use to strip wire and multiconductor cables?			
Installation			
Cut	Function	Conductor size	Description
	Cable cutting tool	Up to 50 mm ² or 1/0	CUTFOX 18
	Diagonal cutter	Up to 95 mm ² or 3/0	CUTFOX-SE LM
	Cable binder cutter	For plastic cable binders up to 4.8 mm or 0.187 in. wide	UNIFOX-CT 4,8P
Order #			
			1212129
			1212833
			1212609
Strip	Single conductor		
	Function	Conductor size	Insulation type
	Self-adjusting stripping tool	0.02 - 10 mm ² or 34 - 8 AWG	Standard
	Self-adjusting stripping tool	0.1 - 4 mm ² or 28 - 12 AWG	Special insulation, e.g., PTFE
	Self-adjusting stripping tool	1.5 - 6 mm ² or 16 - 10 AWG	Short-circuit proof
	Multiconductor		
	Strips sensor/actuator cables	4.4 - 7 mm ² or 12 - 8 AWG	SAC cables
Strips large multiconductor cables	4.5 - 40 mm Ø or 0.17 - 1.5 in Ø	Any	
Order #			
			1212150
			1212156
			1212158
			1212623
			1212161
Replacement blades available			
Crimp	Crimping tools		
	Conductor size	Crimp shape	Description
	0.14 - 6 mm ² or 24 - 10 AWG	Square	CRIMPFOX CENTRUS 6S
		Hex	CRIMPFOX CENTRUS 6H
	0.14 - 10 mm ² or 24 - 8 AWG	Square	CRIMPFOX CENTRUS 10S
		Hex	CRIMPFOX CENTRUS 10H
	0.25 - 6 mm ² or 22 - 10 AWG	Trapezoid	CRIMPFOX 6
10 - 25 mm ² or 6 - 4 AWG	WM	CRIMPFOX 25R	
0.14 mm ² - 10 mm ² , or 24 - 8 AWG and twin 2 x 0.5 - 2 x 4 mm ² , or 2x20 - 2x12 AWG	Trapezoid	Crimpfox Duo 10	
Order #			
			1213144
			1213146
			1213154
			1213156
			1212034
			1212039
			1031721
Ferrules	Ferrules		
	AWG	Color	Standard pack
	22	Turquoise	100
	20	White	100
	18	Gray	100
	18	Red	100
	16	Black	100
	14	Blue	100
	12	Orange	100
	10	Green	100
8	Brown	100	
Description			
			AI 0,34-8 TQ
			AI 0,5-8 WH
			AI 0,75-8 GY (0,75 cross section)
			AI 1-8 RD (1 cross section)
			AI 1,5-8 BK
			AI 2,5-8 BU
			AI 4-10 OG
			AI 6-12 GN
			AI 10-12 BN
Assemble	Screwdrivers		
	Tool	Description	Order #
	Battery-powered torque screwdriver: 0.13 - 2.74 Nm / 1.15 - 24.25 in. lb	SF-ASD 16 Set	1200295
	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
	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
Screwdriver and bit set - 17-part kit	SF-M SET 2	1212756	
Tool	Semi-automatic wire processing devices		
	Function	Conductor size	Description
	Cut	0.25-10/22-8 AWG	CUTFOX 10
	Strip and crimp	0.25-2.5 or 22-14 AWG	CF3000
	1000-ferrule strip - white	0.5 mm ² or 20 AWG	AI 0,5-8 WH-B
	1000-ferrule strip - gray	0.75 mm ² or 18 AWG	AI 0,75-8 GY-B
	1000-ferrule strip - red	1.0 mm ² or 18 AWG	AI 1,0-8 RD-B
1000-ferrule strip - black	1.5 mm ² or 16 AWG	AI 1,5-8 BK-B	
1000-ferrule strip - blue	2.5 mm ² or 14 AWG	AI 2,5-8 BU-B	
Order #			
			1206829
			1205516
			3201369
			3201372
			3201385
			3201398
			3201408

More tools available, call Technical Service: (800) 322-3225 or visit: www.phoenixcontact.com/tools

DIN rail and end clamps					
End clamps					
End clamps	Type	Width	Standard pack	Description	Order #
		Screw down	9.5 mm	50 pcs.	E/NS 35 N
	Snap on	5.15 mm	50 pcs.	Clipfix 35-5	3022276
DIN rail					
DIN rail	Material	Width	Height	Description	Order #
	Aluminum	35 mm	7.5 mm	NS 35/7.5 AL UNPERF 2000MM	0801704
	Galvanized steel	35 mm	7.5 mm	NS 35/7.5 PERF 2000MM	0801733
	Aluminum	35 mm	7.5 mm	NS 35/7.5 AL PERF 2000MM	0814681
	Galvanized steel	35 mm	15 mm	NS 35/15 PERF 2000MM	1201730



Open communication with customers and partners worldwide

Phoenix Contact is a global market leader based in Germany. We are known for producing future-oriented components, systems, and solutions for electrification, networking, and automation. With a global network reaching across more than 100 countries, with over 17,100 employees, we maintain close relationships with our customers, something we believe is essential for our common success.

Our wide variety of innovative products makes it easy for our customers to implement the latest technology in a variety of applications and industries. We focus on developing the fields of energy, infrastructure, process, and factory automation.

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