

Modular Bus System



General Purpose Transformer



PSG Power Supplies



CHDB Series Power Distribution



XB Terminal Blocks

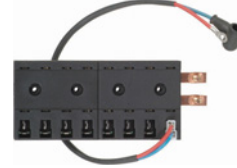
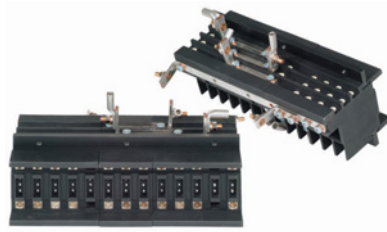


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For our complete product offering, see Volume 7—Motor Controls, Logic and Connectivity, CA08100008E

Product Overview

Modular Bus System Selection Guide



Description

Modular Distribution Busbar System (MDBS)

Power Distribution Busbar Module (PDBM)

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Technical Data

Voltage

Type	AC or DC or both	DC
Vdc	to 110 Vdc nominal (77–137.5 Vdc)	to 72 Vdc nominal (55–90 Vdc)
Vac	to 380 Vac nominal (342–424 Vac); 50/60 Hz	—
Busbars	4 busbars	1, additional negative return busbar possible
Busbar rating	300A output	100A total output (up to 30A per breaker)
Mounting	Front panel	Front or rear panel
Breaker specifications		
Type	Hydraulic-magnetic	Hydraulic-magnetic
Series	AMR, AM1P (three-pole AMR in parallel)	J Series
Ratings	to 100A (single-pole), 300A (three-pole)	to 30A
Terminals	Plug-in bullet terminals	Fast-on
Number of breakers	3 and 5 breaker modules (any combination)	Maximum 12 positions (using 4-position modules)
Auxiliary contact	Via individual connections via trim trio connector	Individual signals via SMS, SUBD, or DT connectors
Dual control	Available	Available

Dimensions

Module only—H x W x D in (mm)

3-Breaker	3.31 x 2.25 x 4.095 (84 x 57.15 x 104)	—
4-Breaker	—	3.94 x 3.00 x 1.10 (100 x 76 x 28)
5-Breaker	3.31 x 3.74 x 4.095 (84 x 95 x 104)	—

Module including mounting blade, busbar, auxiliary switch—
H x W x D in (mm)

3-Breaker	4.53 x 2.25 x 5.52 (115 x 57.15 x 140)	—
4-Breaker	—	3.94 x 3.00 x 1.46 (100 x 76 x 37)
5-Breaker	4.53 x 3.74 x 5.52 (84 x 95 x 104)	—

Weight

Weight (without busbars)

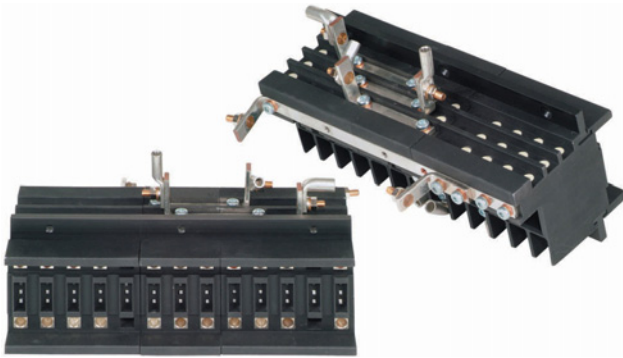
3-Breaker	200g (7 oz)	—
4-Breaker ^①	—	160g (5.65 oz)
5-Breaker	300g (10.6 oz)	—

Note

^① With busbars.

Modular Bus System for Hydraulic Magnetic Circuit Breakers

Modular Bus System for Hydraulic Magnetic Circuit Breakers—MDBS



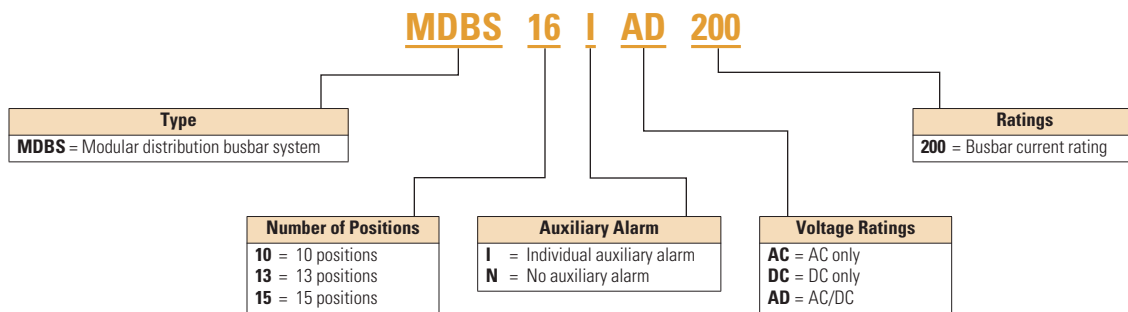
Features

- Compact power distribution bus system design
- Number, type (AC vs. DC) and location of loads can be easily changed by adjusting the busbar components
- Saves installation time
- Available with or without individual alarm auxiliary switches
- Utilizes pluggable breakers for quick connection and ability to disconnect

Catalog Number Selection

Modular Bus System for Hydraulic Magnetic Circuit Breakers—MDBS

Modular Bus System—MDBS Model



Product Selection

Modular Bus System—MDBS Model

Individual Auxiliary Alarm	Voltage	Number of Breaker Positions (Poles)	Catalog Number ^①
Yes	AC and DC	10	MDBS-10-1-AD-200
		13	MDBS-13-1-AD-200
		15	MDBS-15-1-AD-200
No	AC only	10	MDBS-10-N-AD-200
		13	MDBS-13-N-AD-200
		15	MDBS-15-N-AD-200

Note

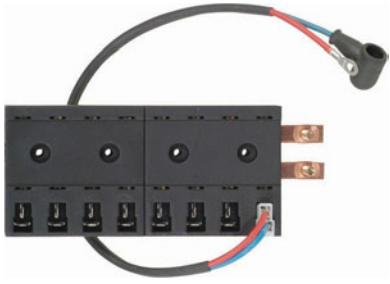
- ^① These are typical catalog numbers that could be built using the modular system. Products are built-to-order according to specifications and can be provided with any number of positions.

63.1

Machine Integration

Modular Bus System for Hydraulic Magnetic Circuit Breakers

Modular Bus System for Hydraulic Magnetic Circuit Breakers—PDMB



63

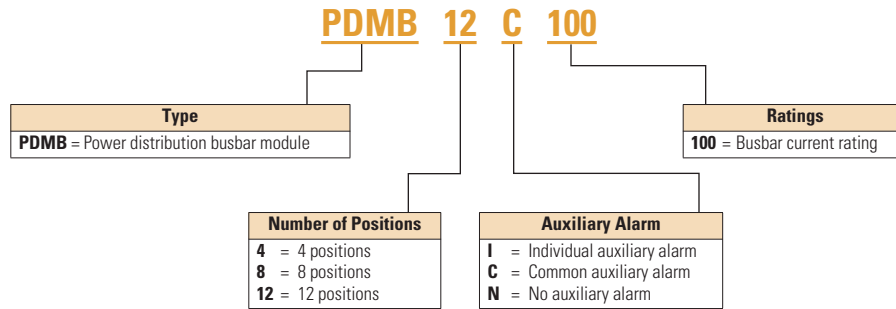
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- Available with or without individual alarm auxiliary switches
- Utilizes pluggable breakers for quick connection and ability to disconnect

Catalog Number Selection

Modular Bus System for Hydraulic Magnetic Circuit Breakers—PDMB

Modular Bus System—PDMB Model



Product Selection

Modular Bus System—PDMB Model

Auxiliary Alarm	Busbar Current Rating	Number of Breaker Positions (Poles)	Catalog Number ①
Common	100A	4	PDMB-4-C-100
		8	PDMB-8-C-100
		12	PDMB-12-C-100
Individual	100A	4	PDMB-4-1-100
		8	PDMB-8-1-100
		12	PDMB-12-1-100
No auxiliary alarm	100A	4	PDMB-4-N-100
		8	PDMB-8-N-100
		12	PDMB-12-N-100

Note

① These are typical catalog numbers that could be built using the modular system. Products are built-to-order according to specifications and can be provided with any number of positions.

Product Overview

General Purpose and Industrial Control Transformers Selection Guide



Description	General Purpose Transformers	Industrial Control Transformers
	Page 294	Page 296
General applications	Typically used to step-down voltage from a high voltage to a lower, safer voltage. Commonly installed in or on other electrical equipment, such as machinery, switchboards, and motor control centers. Also installed as loose equipment.	Typically used to step-down voltage to a level suitable to operate a variety of electrically controlled devices. Must be installed inside an enclosure, panel, or other structure to provide protection from the surroundings.
Maximum primary voltage rating	600 Vac	600 Vac
Frequency	60 Hz standard (50/60 Hz optional)	50/60 Hz
Enclosure rating	Type 3R raintight	Open
Insulation system	180°C (356°F)	105°C (221°F)/130°C (266°F)/180°C (356°F)
Temperature rise		
Standard	115°C (239°F)	55°C (131°F)/80°C (176°F)/120°C (248°F)
Optional	80°C (176°F)	—
Approvals	UL® 506, UL 1561, CSA® C22.2	UL 506, CSA C22.2
Ratings		
50 VA	37.5 kVA single-phase	50 to 5,000 VA
3 kVA	75 kVA three-phase	—

63.2

Machine Integration

General Purpose and Industrial Control Transformers

General Purpose Transformers



63

Features

- Totally enclosed non-ventilated Type 3R enclosure
- 180°C insulation system
- Suitable for indoor or outdoor applications
- UL listed and CSA certified

Catalog Number Selection

General Purpose Transformers

General Purpose

T S 20 N 11 S 05 A

<p>Prefix Options</p> <p>C = CSA labeled ventilated transformer</p> <p>Marine Duty</p> <p>QS = EPM marine (1-Ph encapsulated)</p> <p>LY = EPTM Marine (3-Ph encapsulated)</p> <p>RT = DS-3M marine (1-Ph ventilated)</p> <p>MV = DT-3M marine (3-Ph ventilated)</p>	<p>Taps</p> <p>D = 2 at +2.5%, 2 at -2.5%</p> <p>E = 1 at +5%, 1 at -5%</p> <p>F = 1 at -10%</p> <p>G = 2 at -5%</p> <p>J = 4 at -2.5%</p> <p>K = 1 at -10% x 2 at -5%</p> <p>L = 2 at -5% x 4 at -2.5%</p> <p>M = 2 at +2.5%, 4 at -2.5%</p> <p>N = None</p> <p>R = 1 at +5%, 2 at -5%</p> <p>P = 1 at +5%, 2 at -5% x 2 at +2.5%, 4 at -2.5%</p> <p>T = 1 at +4.2%, 1 at -4.2%</p> <p>U = 1 at +2.5%, 3 at -2.5%</p> <p>W = 1 at +3.5%, 1 at -3.5%</p> <p>X = 2 at +3.1%, 2 at -3.1%</p>	<p>kVA</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>81 = 0.05</td> <td>07 = 7.5</td> <td>12 = 112.5</td> </tr> <tr> <td>85 = 0.075</td> <td>09 = 9</td> <td>49 = 150</td> </tr> <tr> <td>82 = 0.10</td> <td>10 = 10</td> <td>67 = 167</td> </tr> <tr> <td>83 = 0.15</td> <td>15 = 15</td> <td>22 = 225</td> </tr> <tr> <td>26 = 0.25</td> <td>21 = 22.5</td> <td>52 = 250</td> </tr> <tr> <td>51 = 0.50</td> <td>25 = 25</td> <td>33 = 300</td> </tr> <tr> <td>76 = 0.75</td> <td>30 = 30</td> <td>54 = 333</td> </tr> <tr> <td>01 = 1</td> <td>37 = 37.5</td> <td>55 = 500</td> </tr> <tr> <td>16 = 1.5</td> <td>45 = 45</td> <td>60 = 600</td> </tr> <tr> <td>02 = 2</td> <td>50 = 50</td> <td>77 = 750</td> </tr> <tr> <td>03 = 3</td> <td>75 = 75</td> <td>11 = 1000</td> </tr> <tr> <td>05 = 5</td> <td>99 = 100</td> <td>14 = 1500</td> </tr> <tr> <td>06 = 6</td> <td></td> <td></td> </tr> </table>	81 = 0.05	07 = 7.5	12 = 112.5	85 = 0.075	09 = 9	49 = 150	82 = 0.10	10 = 10	67 = 167	83 = 0.15	15 = 15	22 = 225	26 = 0.25	21 = 22.5	52 = 250	51 = 0.50	25 = 25	33 = 300	76 = 0.75	30 = 30	54 = 333	01 = 1	37 = 37.5	55 = 500	16 = 1.5	45 = 45	60 = 600	02 = 2	50 = 50	77 = 750	03 = 3	75 = 75	11 = 1000	05 = 5	99 = 100	14 = 1500	06 = 6			<p>Suffix Options</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>A...Y = ①</td> <td>SR = ⑩</td> </tr> <tr> <td>CU = ②</td> <td>CE = ⑪</td> </tr> <tr> <td>SS = ③</td> <td>T = ⑫</td> </tr> <tr> <td>ZZ = ④</td> <td>EE = ⑬</td> </tr> <tr> <td>NV = ⑤</td> <td>NON = ⑭</td> </tr> <tr> <td>X = ⑥</td> <td>POS = ⑮</td> </tr> <tr> <td>LS_ = ⑦</td> <td>NEG = ⑯</td> </tr> <tr> <td>AF = ⑧</td> <td>THR = ⑰</td> </tr> <tr> <td>TR = ⑨</td> <td></td> </tr> </table>	A...Y = ①	SR = ⑩	CU = ②	CE = ⑪	SS = ③	T = ⑫	ZZ = ④	EE = ⑬	NV = ⑤	NON = ⑭	X = ⑥	POS = ⑮	LS_ = ⑦	NEG = ⑯	AF = ⑧	THR = ⑰	TR = ⑨		
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Notes

- ① Model number is not used on newly designed/redesigned transformers.
- ② Copper windings.
- ③ Stainless steel enclosure (uses 316 stainless steel, does not imply a NEMA 4X rating).
- ④ Open type core and coil assembly.
- ⑤ Totally enclosed non-ventilated DS-3 or DT-3.
- ⑥ 50/60 Hz.
- ⑦ Low sound design. LS47 indicates low sound equal to 47 dB; LS42 indicates 42 dB.
- ⑧ Fungus proof.
- ⑨ Certified test report of standard production tests for the specific serial number to be shipped.
- ⑩ Certified sound level report.
- ⑪ CE Marked.
- ⑫ Thermal indicator embedded in center coil. Suffix "TT" indicates two thermal indicators of different temperature ratings, are installed.
- ⑬ NEMA TP-1 Energy Star energy efficient.
- ⑭ 0° phase-shift (used with HMTs).
- ⑮ +15° phase-shift (used with HMTs).
- ⑯ -15° phase-shift (used with HMTs).
- ⑰ -30° phase-shift (used with HMTs).

Product Selection

Single-Phase Encapsulated, 240 x 480—120/240, 115°C Rise

kVA	Catalog Number	Outline #	Wiring Diagram
0.05	S20N11S81N	52	3A
0.075	S20N11S85N	53	3A
0.1	S20N11S82N	54	3A
0.15	S20N11S83N	55	3A
0.25	S20N11S26N	56	3A
0.5	S20N11S51N	57	3A
0.75	S20N11S76N	58A	3A
1	S20N11S01N	59A	3A
1.5	S20N11S16N	67	3A
2	S20N11S02N	68	3A
3	S20N11S03N	176	3A
5	S20N11S05N	177	3A
7.5	S20N11S07N	178	3A
10	S20N11S10N	179	3A
15	S20N11S15N	180	3A
25	S20L11S25N	182	23A
37.5	S20L11S37	300A	248A

Single-Phase Transformer Sizing Chart

Line current = (kVA x 1000)/line voltage.

kVA	Rated Line Voltage								
	120	208	240	277	480	600	2400	4160	4800
0.5	4.2	2.4	2.1	1.8	1	0.8	0.2	0.1	0.1
1	8.3	4.8	4.2	3.6	2.1	1.7	0.4	0.2	0.2
1.5	12.5	7.2	6.3	5.4	3.1	2.5	0.6	0.4	0.3
2	16.7	9.6	8.3	7.2	4.2	3.3	0.8	0.5	0.4
3	25	14.4	12.5	10.8	6.3	5	1.3	0.7	0.6
5	41.7	24	20.8	18.1	10.4	8.3	2.1	1.2	1
7.5	62.5	36.1	31.3	27.1	15.6	12.5	3.1	1.8	1.6
10	83.3	48.1	41.7	36.1	20.8	16.7	4.2	2.4	2.1
15	125	72.1	62.5	54.2	31.3	25	6.3	3.6	3.1
25	208.3	120.2	104.2	90.3	52.1	41.7	10.4	6	5.2
37.5	312.5	180.3	156.3	135.4	78.1	62.5	15.6	9	7.8
50	416.7	240.4	208.3	180.5	104.2	83.3	20.8	12	10.4
75	625	360.6	312.5	270.8	156.3	125	31.3	18	15.6
100	833.3	480.8	416.7	361	208.3	166.7	41.7	24	20.8
167	1391.7	802.9	695.8	602.9	347.9	278.3	69.6	40.1	34.8
250	2083.3	1201.9	1041.7	902.5	520.8	416.7	104.2	60.1	52.1
333	2775	1601	1387.5	1202.2	693.8	555	138.8	80	69.4

63.2

Machine Integration

General Purpose and Industrial Control Transformers

Industrial Control Transformers



Features

- Epoxy encapsulated
- 130°C insulation system
- 50/60 Hz operation
- UL listed and CSA certified

63

Catalog Number Selection

Industrial Control Transformers

Industrial Control

CE 0250 E 2F CE

Type		VA Rating		Transformer Design		Voltage		Modifications																																																																												
C = Industrial control transformer CE = CE Marked control transformer		0025 = 25 1000 = 1000 0050 = 50 1500 = 1500 0075 = 75 2000 = 2000 0100 = 100 3000 = 3000 0150 = 150 5000 = 5000 0200 = 200 Type AP Only: 0250 = 250 0003 = 3000 0300 = 300 0005 = 5000 0350 = 350 0007 = 7500 0500 = 500 0010 = 10000 0750 = 750 0015 = 15000		E = MTE K = MTK P = AP		<table border="1"> <thead> <tr> <th></th> <th>Primary</th> <th>Secondary</th> </tr> </thead> <tbody> <tr><td>AC</td><td>= 380 x 415</td><td>24</td></tr> <tr><td>AG</td><td>= 208/240/277/380/480</td><td>24</td></tr> <tr><td>1B</td><td>= 120 x 240</td><td>24</td></tr> <tr><td>2A</td><td>= 240 x 480, 230 x 460, 220 x 440</td><td>120/115/110</td></tr> <tr><td>2B</td><td>= 240 x 480</td><td>24</td></tr> <tr><td>2C</td><td>= 240 x 480</td><td>120 x 240</td></tr> <tr><td>2F</td><td>= 230/460</td><td>115</td></tr> <tr><td>2G</td><td>= 230/460</td><td>115/230</td></tr> <tr><td>2U</td><td>= 220/380/440/550, 230/400/460/575, 240/416/480/600</td><td>23/110, 24/115, 25/120</td></tr> <tr><td>2V</td><td>= 208/230/400/460/575</td><td>24/115/230</td></tr> <tr><td>2W</td><td>= 208/230/400/460/575</td><td>115/230</td></tr> <tr><td>3A</td><td>= 208/277</td><td>120</td></tr> <tr><td>3B</td><td>= 115</td><td>24</td></tr> <tr><td>3C</td><td>= 230/460/575</td><td>115/95</td></tr> <tr><td>3D</td><td>= 208/380/416</td><td>115/95</td></tr> <tr><td>4B</td><td>= 208/230/460/575</td><td>24</td></tr> <tr><td>4C</td><td>= 550/575/600</td><td>110/115/120</td></tr> <tr><td>4D</td><td>= 380/400/415</td><td>110 x 220</td></tr> <tr><td>4E</td><td>= 208/230/460/575</td><td>115</td></tr> <tr><td>4H</td><td>= 380/400/415</td><td>22/23/24</td></tr> <tr><td>4W</td><td>= 550/575/600</td><td>22/23/24</td></tr> <tr><td>5E</td><td>= 200/220/440, 208/230/460, 240/480</td><td>23/110, 24/115, 25/120</td></tr> <tr><td>6U</td><td>= 240/416/480/600, 230/400/460/575, 220/380/440/550, 208/500</td><td>99/120/130, 95/115/125, 91/110/120, 85/100/110</td></tr> <tr><td>7G ①</td><td>= 240 x 480</td><td>120/240</td></tr> </tbody> </table>			Primary	Secondary	AC	= 380 x 415	24	AG	= 208/240/277/380/480	24	1B	= 120 x 240	24	2A	= 240 x 480, 230 x 460, 220 x 440	120/115/110	2B	= 240 x 480	24	2C	= 240 x 480	120 x 240	2F	= 230/460	115	2G	= 230/460	115/230	2U	= 220/380/440/550, 230/400/460/575, 240/416/480/600	23/110, 24/115, 25/120	2V	= 208/230/400/460/575	24/115/230	2W	= 208/230/400/460/575	115/230	3A	= 208/277	120	3B	= 115	24	3C	= 230/460/575	115/95	3D	= 208/380/416	115/95	4B	= 208/230/460/575	24	4C	= 550/575/600	110/115/120	4D	= 380/400/415	110 x 220	4E	= 208/230/460/575	115	4H	= 380/400/415	22/23/24	4W	= 550/575/600	22/23/24	5E	= 200/220/440, 208/230/460, 240/480	23/110, 24/115, 25/120	6U	= 240/416/480/600, 230/400/460/575, 220/380/440/550, 208/500	99/120/130, 95/115/125, 91/110/120, 85/100/110	7G ①	= 240 x 480	120/240	Type MTE/MTK CE = CE marked control transformer FB = Factory-mounted two-pole primary fuse block for rejection type fuses FBN = Factory-mounted two-pole primary fuse block for non-rejection type fuses Q = Secondary fuse clips for 1/4 x 1-1/4 in fuses XX = No secondary fuse clips RT = Ring type terminals for connection to fuse block ES = Electrostatic shield FS = Factory-mounted finger-safe terminal shields Type AP B = Bottom mounted S = Side/wall mounted ES = Electrostatic shield CU = Copper windings Type MTA/MTC FB = Factory-mounted three-pole fuse block (two-pole primary rejection type with single-pole secondary non-rejection type) ES = Electrostatic shield L = Lead terminations	
	Primary	Secondary																																																																																		
AC	= 380 x 415	24																																																																																		
AG	= 208/240/277/380/480	24																																																																																		
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7G ①	= 240 x 480	120/240																																																																																		

Note
 ① Type AP only.

Product Selection**Primary 240 x 480,
230 x 460, 220 x 440—
Secondary 120/115/110**

VA	Catalog Number
25	C0025E2A
50	C0050E2A
75	C0075E2A
100	C0100E2A
150	C0150E2A
200	C0200E2A
250	C0250E2A
300	C0300E2A
350	C0350E2A
500	C0500E2A
750	C0750E2A
1000	C1000E2A
1500	C1500E2A

**Primary 240 x 480—
Secondary 24**

VA	Catalog Number
50	C0050E2B
75	C0075E2B
100	C0100E2B
150	C0150E2B
200	C0200E2B
250	C0250E2B
300	C0300E2B
350	C0350E2B
500	C0500E2B
750	C0750E2B

**Primary 120 x 240—
Secondary 24**

VA	Catalog Number
50	C0050E1B
75	C0075E1B
100	C0100E1B
150	C0150E1B
200	C0200E1B
250	C0250E1B
300	C0300E1B
350	C0350E1B
500	C0500E1B

Product Overview

Power Supplies Selection Guide

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Description	PSG Power Supplies	ELC Power Supplies
	Page 299	Page 300
Technical Data		
Output voltage	24 Vdc	24 Vdc
Input voltage	85–264 Vac/120–375 Vdc or 320–575 Vac/450–800 Vdc	85–264 Vac
Mounting	DIN rail	DIN rail/panel
Outrush current (current boost/surge)	150% of nominal	110% of nominal
Class 1, Division 2	Yes	Yes
Semi 47 approved	Yes	—
Housing material	Metal	Plastic
Adjustable output voltage	22–28 Vdc	—
Redundancy allowed	Yes	—
Connection	Large screw terminals	Large screw terminals
Overload/short circuit protection	Yes	Yes

PSG Power Supplies



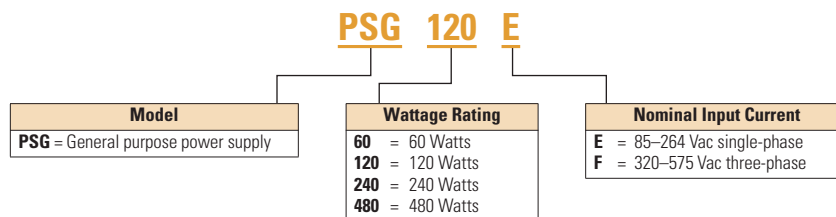
Features

- Universal input voltages:
 - 85–264 Vac for single-phase units, 320–575 Vac for three-phase units
 - Rugged aluminum housing stands up to harsh environments
- Compact size, with common depth and height across all models allows for common panel depths and family consistency
- Heavy-duty screw terminals with finger-safe protective cover allow use of ring-lug terminals
- Class 1, Division 2 hazardous location rated

Catalog Number Selection

PSG Power Supplies

PSG



Product Selection

Semi F47 Certified for Voltage Sag Immunity PSG Power Supply

Description	Catalog Number
Single-phase 85–264 Vac input, 24 Vdc/2.5A output	PSG60E
Three-phase 320–575 Vac input, 24 Vdc/2.5A output	PSG60F
Single-phase 85–264 Vac input, 24 Vdc/5A output	PSG120E
Three-phase 320–575 Vac input, 24 Vdc/5A output	PSG120F
Single-phase 85–264 Vac input, 24 Vdc/10A output	PSG240E
Three-phase 320–575 Vac input, 24 Vdc/10A output	PSG240F
Single-phase 85–264 Vac input, 24 Vdc/20A output	PSG480E
Three-phase 320–575 Vac input, 24 Vdc/20A output	PSG480F

ELC Power Supplies



Features

- Compact and low-cost source for 24 Vdc power
- Universal input voltage: 85–264 Vac
- Compact size, with common depth and height across models allows for common panel depths and family consistency
- Power On indication LED
- Integrated mounting hardware for panel mounting or DIN rail mounting

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Product Selection

ELC Power Supplies

ELC

Description	Catalog Number
24W, 1A power supply	ELC-PS01
48W, 2A power supply	ELC-PS02

Product Overview

Power Distribution Blocks Selection Guide



Description	CHDB Series (Open Style) Page 302	CHDB Series (Enclosed Style) Page 302	CH160 Series Page 303
UL listing	UL 1953 for feeder circuits	UL 1953 for feeder circuits	UL 1059 for branch circuits
Protection degree	N/A—covers available	IP20 finger-safe	N/A—covers available
Number of poles	3	1	1, 2 or 3
Maximum current	310A	570A	840A
High SCCR	Yes	Yes	No

CHDB Series—Power Distribution Blocks, Enclosed and Open



Features

- High short-circuit current rating (SCCR) applications up to 200,000 amperes
- 600 Vac or Vdc (UL 1953), 690 Vac or Vdc
- DIN rail or panel mount (CHDB330F is panel mount only)
- Captive termination screws prevent lost screws
- Single-pole, gang mountable for multi-pole applications
- UL listed 1953, guide QPQS, file E256146
- CSA certified, class 6228-01, file 15364 (enclosed style)
- CE component IEC 60947-7-1 (enclosed style)
- IEC 60529, IP20 (finger-safe) under specific wiring conditions (enclosed style)

Product Selection

CHDB Series—Power Distribution Blocks, Enclosed and Open

CHDB Series

Line Connection	Load Connection	Configuration	Amperes	Style	Poles	Catalog Number
2/0-#8 AWG	(4) #4-#14 AWG		175	Open	3	CHDB2203
2/0-#8 AWG	(6) #4-#14 AWG		175	Open	3	CHDB3213
300 kcmil-#4 AWG	(6) #4-#12 AWG		310	Open	3	CHDB3233
300 kcmil-#4 AWG	(12) #4-#14 AWG		310	Open	3	CHDB3703
300 kcmil-#4 AWG	(6) #2-#12 AWG		310	Open	3	CHDB3713
	(3) 1/0-#12 AWG		310	Open	3	CHDB3713
2/0-#8 AWG	2/0-#8 AWG		175	Enclosed ①	1	CHDB204F
500 kcmil-#6 AWG	(6) #2-#14 AWG		380	Enclosed ①	1	CHDB330F
300 kcmil-#4 AWG	(12) #4-#14 AWG		570	Enclosed ①	1	CHDB377F

Note

① Finger-safe.

CH160 Series—Power Terminal Blocks**Features**

- Ratings to 840A, 600V
- Molded material, black; UL rated 94V-0 thermoplastic
- Operating temperature: 302°F (150°C)
- Optional cover
- UL recognized
- CSA certified

Product Selection**CH160 Series—Power Terminal Blocks****CH160 Series**

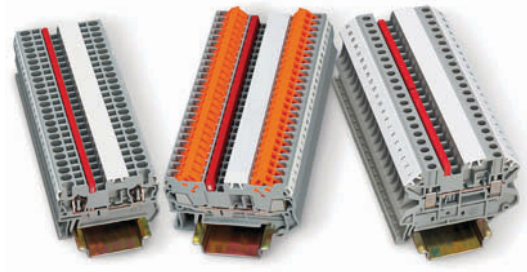
Line Connection	Load Connection	Connector Material and Ampacity	Catalog Number ^①
CH162 Series			
#2-#14 Cu/#8 Al	#2-#14 Cu/#8 Al	Al 115A	CH16200_
1/0-#14 Cu	1/0-#14 Cu	Cu 150A	CH16201_
2/0-#8 Cu/Al	2/0-#8 Cu/Al	Al 175A	CH16204_
2/0-#14 Cu/#8 Al	(4) #4-#14 Cu/#8 Al	Al 175A	CH16220_
CH163 Series			
250 MCM-#6 Cu	250 MCM-#6 Cu	Cu 255A	CH16301_
350 MCM-#6 Cu/Al	350 MCM-#6 Cu/Al	Al 310A	CH16303_
500 MCM-#6 Cu/Al	500 MCM-#6 Cu/Al	Al 380A	CH16306_
2/0-#14 Cu/Al	(6) #4-#14 Cu/#8 Al	Al 175A	CH16321_
350 MCM-#6 Cu/Al	(6) #4-#14 Cu/#8 Al	Al 310A	CH16323_
(2) 2/0-#14 Cu/#8 Al	(6) #4-#14 Cu/#8 Al	Al 350A	CH16325_
500 MCM-#6 Cu/Al	(6) #2-#14 Cu/#8 Al	Al 380A	CH16330_
350 MCM-#6 Cu/Al	(3) #2-#14 Cu/#8 Al	Al 310A	CH16332_
	(2) 1/0-#14 Cu/#8 Al	Al 310A	CH16332_
350 MCM-#6 Cu/Al	(12) #4-#14 Cu/#8 Al	Al 310A	CH16370_
350 MCM-#6 Cu/Al	(6) #2-#14 Cu/#8 Al	Al 310A	CH16371_
	(3) 1/0-#14 Cu/#8 Al	Al 310A	CH16371_
350 MCM-#6 Cu/Al	(21) #10-#14 Cu/#10 Al	Al 310A	CH16372_
350 MCM-#6 Cu/Al	(3) 1/0-#14 Cu/#8 Al	Al 310A	CH16373_
	(14) #10-#14 Cu/#8 Al	Al 310A	CH16373_
600 MCM-#2 Cu/Al	(12) #4-#14 Cu/#8 Al	Al 420A	CH16375_
600 MCM-#2 Cu/Al	(6) #2-#14 Cu/#8 Al	Al 420A	CH16376_
	(3) 1/0-#14 Cu/#8 Al	Al 420A	CH16376_
CH165 Series			
(2) 350 MCM-4 Cu/Al	(2) 350 MCM-4 Cu/Al	Al 620A	CH16500_
(2) 500 MCM-#6 Cu/Al	(2) 500 MCM-#6 Cu/Al	Al 760A	CH16504_
(2) 600 MCM-#2 Cu/Al	(4) 3/0-#8 Cu/Al	Al 840A	CH16528_
	(4) #4-#14 Cu/#8 Al	Al 840A	CH16528_
(2) 500 MCM-#6 Cu/Al	(12) #4-#14 Cu/#8 Al	Al 760A	CH16530_

Note

- ^① Incomplete catalog number—add code suffix **-1**, **-2**, **-3** for number of poles.
Example: For a 150A 1/0-#14 Cu to 1/0-#14 Cu three-pole PDB, order CH16201-3.

Product Overview

Terminal Blocks and Accessories Selection Guide



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Description	XB Series IEC Terminal Blocks
	Page 305
Available connections	Screw terminal, spring cage, insulation displacement (IDC)
Insulation material	Polyamide 6.6
Dielectric strength	600 kV/cm
Creep resistance	600 CTI
Flammability rating	UL 94 V0
Continuous operating temperature	-40° to 257°F (-40° to 125°C)
UL recognized	Yes
CE approved	Yes
ATEX approved	Yes
Jumpers/bridging	Flexible jumper system with dual channel configurations

XB Series IEC Terminal Blocks**Features**

- Maintenance-free connections
- Multi-conductor connections
- Flexible plug-in bridge system
- UL and cUL® recognized, CE approved
- LVD1 (Not all standards apply to all terminal blocks. Contact Eaton for details)
 - EN-60947-7-1; EN-60947-7-2; EN-60998-2-3; EN-60352-4/A1
- ATEX approval (EExe applications)

Product Selection**XB Series IEC Terminal Blocks****Screw Connection Single Level—Through-Feed Terminal Blocks**

Terminal Width	5.2 mm	6.2 mm	8.2 mm		
Maximum Wire Size	12 AWG/2.5 mm ²	10 AWG/4 mm ²	8 AWG/6 mm ²		
IEC 60 947-7-1 in V/A/AWG	800/32/26-12	800/41/26-10	800/57/24-8		
EN 50 019 ^① in V/A/AWG	750/22/28/26-12	750/30/38/26-10	750/40/50/24-8		
UL-cUL Ratings in V/A/AWG	600/20/26-12	600/30/26-10	600/50/24-8		
Description	Color	Number of Positions	Catalog Number	Catalog Number	Catalog Number
Product Selection					
Screw connection single level—through-feed	Gray	—	XBUT25	XBUT4	XBUT6
	Blue	—	XBUT25BU	XBUT4BU	XBUT6BU
	Orange	—	—	XBUT4OR	—
	Yellow	—	—	XBUT4YE	—
	Red	—	—	XBUT4RD	—
	White	—	—	XBUT4WH	—
	Black	—	—	XBUT4BK	—
	Green	—	—	XBUT4GN	—
Accessories					
End cover	Gray	—	XBACUT10	XBACUT10	XBACUT10
Partition plate	Gray	—	XBATUT10	XBATUT10	XBATUT10
Plug-in bridge—for cross connections in the bridge shaft	Red	2	XBAFBS25	XBAFBS26	XBAFBS28
		3	XBAFBS35	XBAFBS36	—
		5	XBAFBS55	XBAFBS56	—
		10	XBAFBS105	XBAFBS106	—
		50	XBAFBS505	XBAFBS506	—
Reducing bridge—for connection from XBUT10 to XBUT4 or XBUT25	Red	—	—	—	—
Test adapter	—	—	XBATSPA14	XBATSPA14	XBATSPA14
2.3 mm dia. test plug	—	—	XBATSMPS_ ^②	XBATSMPS_ ^②	—
Modular test plug	—	—	XBATSPS5	XBATSPS6	XBATSPS8
Blank marker strip (strip of 10)	White	—	XBMZB5 ^③	XBMZB6 ^③	XBMZB8 ^③
DIN Rail					
35 mm x 7.5 mm x 2 m (slotted)	—	—	XBANS3575P	XBANS3575P	XBANS3575P
35 mm x 7.5 mm x 2 m (solid)	—	—	XBANS3575U	XBANS3575U	XBANS3575U
35 mm x 15 mm x 2 m (slotted)	—	—	XBANS3515P	XBANS3515P	XBANS3515P
35 mm x 15 mm x 2 m (solid)	—	—	XBANS3515U	XBANS3515U	XBANS3515U
End-Stop					
One-screw mounted	—	—	XBAES35C	XBAES35C	XBAES35C
Three-screw mounted	—	—	XBAES35T	XBAES35T	XBAES35T
Snap-on	—	—	XBAES35N	XBAES35N	XBAES35N

Notes

- ^① EU type—examination certificate number: KEMA 05ATEX2158 U.
^② For ordering information, see **Page 328**.
^③ For information on Printed Marking Tag Options, see **Page 329**.

Screw Connection Single Level—Through-Feed Terminal Blocks, continued

Terminal Width Maximum Wire Size IEC 60 947-7-1 in V/A/AWG EN 50 019 ^① in V/A/AWG UL-cUL Ratings in V/A/AWG			5.2 mm 12 AWG/2.5 mm ² 800/32/26-12 750/22/28/26-12 600/20/26-12	6.2 mm 10 AWG/4 mm ² 800/41/26-10 750/30/38/26-10 600/30/26-10	8.2 mm 8 AWG/6 mm ² 800/57/24-8 750/40/50/24-8 600/50/24-8
Description	Color	Number of Positions	Catalog Number	Catalog Number	Catalog Number
Product Selection					
Screw connection single level—through-feed	Gray	—	XBUT10	XBUT16	XBUT35
	Blue	—	XBUT10BU	XBUT16BU	XBUT35BU
	Orange	—	XBUT10OR	—	—
	Yellow	—	XBUT10YE	—	—
	Red	—	XBUT10RD	—	—
	White	—	—	—	—
	Black	—	—	—	—
Green	—	—	—	—	—
Accessories					
End cover	Gray	—	XBACUT10	XBACUT16	②
Partition plate	Gray	—	XBATUT10	—	—
Plug-in bridge—for cross connections in the bridge shaft	Red	2	XBAFBS210	XBAFBS212	XBAFBS216
		3	—	—	—
		5	—	—	—
		10	—	—	—
		50	—	—	—
Reducing bridge—for connection from XBUT10 to XBUT4 or XBUT25	Red	—	XBARBUT10	—	—
Test adapter	—	—	—	—	—
2.3 mm dia. test plug	—	—	—	—	—
Modular test plug	—	—	—	—	—
Blank marker strip (strip of 10)	White	—	XBMZB10 ^③	XBMZB12 ^③	XBMZB15 ^③
DIN Rail					
35 mm x 7.5 mm x 2m (slotted)	—	—	XBANS3575P	XBANS3575P	XBANS3575P
35 mm x 7.5 mm x 2m (solid)	—	—	XBANS3575U	XBANS3575U	XBANS3575U
35 mm x 15 mm x 2m (slotted)	—	—	XBANS3515P	XBANS3515P	XBANS3515P
35 mm x 15 mm x 2m (solid)	—	—	XBANS3515U	XBANS3515U	XBANS3515U
End-Stop					
One-screw mounted	—	—	XBAES35C	XBAES35C	XBAES35C
Three-screw mounted	—	—	XBAES35T	XBAES35T	XBAES35T
Snap-on	—	—	XBAES35N	XBAES35N	XBAES35N

Notes

- ① EU type—examination certificate number: KEMA 05ATEX2158 U.
 ② XBUT35 has an enclosed design. The use of an end cover is not required.
 ③ For information on Printed Marking Tag Options, see **Page 329**.

Screw Connection Single Level—Ground Blocks

Terminal Width Maximum Wire Size IEC 60 947-7-2 in V/A/AWG EN 50 019 ^① in V/A/AWG UL-cUL Ratings in V/A/AWG			10.2 mm 12 AWG/2.5 mm ² —/—/26-12 —/—/26-12 —/—/26-12	6.2 mm 10 AWG/4 mm ² —/—/26-10 —/—/26-10 —/—/26-10	8.2 mm 8 AWG/6 mm ² —/—/24-8 —/—/24-8 —/—/24-8
Description	Color	Number of Positions	Catalog Number	Catalog Number	Catalog Number
Product Selection					
Screw connection single level ground block	Green/ yellow	—	XBUT25PE	XBUT4PE	XBUT6PE
Accessories					
End cover	Gray	—	XBACUT10	XBACUT10	XBACUT10
Partition plate	Gray	—	XBATUT10	XBATUT10	XBATUT10
Plug-in bridge—for cross connections in the bridge shaft	Red	2	XBAFBS25	XBAFBS26	XBAFBS28
		3	XBAFBS35	XBAFBS36	—
		5	XBAFBS55	XBAFBS56	—
		10	XBAFBS105	XBAFBS106	—
		50	XBAFBS505	XBAFBS506	—
Test adapter	—	—	XBATSPA14	XBATSPA14	XBATSPA14
2.3 mm dia. test plug	—	—	XBATSMPS-^②	XBATSMPS-^②	—
Modular test plug	—	—	XBATSPS5	XBATSPS6	XBATSPS8
Blank marker strip (strip of 10)	White	—	XBMZB5^③	XBMZB6^③	XBMZB8^③
DIN Rail					
35 mm x 7.5 mm x 2m (slotted)	—	—	XBANS3575P	XBANS3575P	XBANS3575P
35 mm x 7.5 mm x 2m (solid)	—	—	XBANS3575U	XBANS3575U	XBANS3575U
35 mm x 15 mm x 2m (slotted)	—	—	XBANS3515P	XBANS3515P	XBANS3515P
35 mm x 15 mm x 2m (solid)	—	—	XBANS3515U	XBANS3515U	XBANS3515U
End-Stop					
One-screw mounted	—	—	XBAES35C	XBAES35C	XBAES35C
Three-screw mounted	—	—	XBAES35T	XBAES35T	XBAES35T
Snap-on	—	—	XBAES35N	XBAES35N	XBAES35N

Notes

^① EU type—examination certificate number: KEMA 05ATEX2158 U.

^② For ordering information, see **Page 328**.

^③ For information on Printed Marking Tag Options, see **Page 329**.

Screw Connection Single Level—Ground Blocks, continued

Terminal Width			10.2 mm	6.2 mm	8.2 mm
Maximum Wire Size			12 AWG/2.5 mm ²	10 AWG/4 mm ²	8 AWG/6 mm ²
IEC 60 947-7-2 in V/A/AWG			—/—/26-12	—/—/26-10	—/—/24-8
EN 50 019 ^① in V/A/AWG			—/—/26-12	—/—/26-10	—/—/24-8
UL-cUL Ratings in V/A/AWG			—/—/26-12	—/—/26-10	—/—/24-8
Description	Color	Number of Positions	Catalog Number	Catalog Number	Catalog Number
Product Selection					
Screw connection single level ground block	Green/yellow	—	XBUT10PE	XBUT16PE	XBUT35PE
Accessories					
End cover	Gray	—	XBACUT10	XBACUT16	②
Partition plate	—	—	XBATUT10	—	—
Plug-in bridge—for cross connections in the bridge shaft	Red	2	XBAFBS210	XBAFBS212	XBAFBS212
		3	—	—	—
		5	—	—	—
		10	—	—	—
		50	—	—	—
Test adapter	—	—	—	—	—
2.3 mm dia. test plug	—	—	—	—	—
Modular test plug	—	—	—	—	—
Blank marker strip (strip of 10)	White	—	XBMZB10 ^③	XBMZB12 ^③	XBMZB15 ^③
DIN Rail					
35 mm x 7.5 mm x 2m (slotted)	—	—	XBANS3575P	XBANS3575P	XBANS3575P
35 mm x 7.5 mm x 2m (solid)	—	—	XBANS3575U	XBANS3575U	XBANS3575U
35 mm x 15 mm x 2m (slotted)	—	—	XBANS3515P	XBANS3515P	XBANS3515P
35 mm x 15 mm x 2m (solid)	—	—	XBANS3515U	XBANS3515U	XBANS3515U
End-Stop					
One-screw mounted	—	—	XBAES35C	XBAES35C	XBAES35C
Three-screw mounted	—	—	XBAES35T	XBAES35T	XBAES35T
Snap-on	—	—	XBAES35N	XBAES35N	XBAES35N

Notes

① EU type—examination certificate number: KEMA 05ATEX2158 U.

② XBUT35PE has an enclosed design. The use of an end cover is not required.

③ For information on Printed Marking Tag Options, see **Page 329**.

Screw Connection Multi-Conductor Terminal Blocks

Description	Color	Number of Positions	5.2 mm	6.2 mm
			12 AWG/2.5 mm ² 500/28/26-12 150/20/26-12	10 AWG/4 mm ² 500/39/26-10 150/30/26-10
Product Selection			Catalog Number	Catalog Number
Screw connection multi-conductor	Gray	—	XBUT25D12	XBUT4D12
		—	XBUT25D22	XBUT4D22
	Blue	—	XBUT25D12BU	XBUT4D12BU
		—	XBUT25D22BU	XBUT4D22BU
Accessories				
End cover	Gray	—	XBACUT4D12	XBACUT4D12
		—	XBACUT4D22	XBACUT4D22
End cover segment	Gray	—	XBASUT4	XBASUT4
Partition plate			XBATUTD12	XBATUTD12
			XBATUTD22	XBATUTD22
Plug-in bridge—for cross connections in the bridge shaft	Red	2	XBAFBS25	XBAFBS26
		3	XBAFBS35	XBAFBS36
		5	XBAFBS55	XBAFBS56
		10	XBAFBS105	XBAFBS106
		50	XBAFBS505	XBAFBS506
Test adapter	—	—	XBATSPA14	XBATSPA14
2.3 mm dia. test plug	—	—	XBATSMPS-^①	XBATSMPS-^①
Modular test plug	—	—	XBATSPS5	XBATSPS6
Blank marker strip (strip of 10)	White	—	XBMBZB5^②	XBMBZB6^②
DIN Rail				
35 mm x 7.5 mm x 2m (slotted)	—	—	XBANS3575P	XBANS3575P
35 mm x 7.5 mm x 2m (solid)	—	—	XBANS3575U	XBANS3575U
35 mm x 15 mm x 2m (slotted)	—	—	XBANS3515P	XBANS3515P
35 mm x 15 mm x 2m (solid)	—	—	XBANS3515U	XBANS3515U
End-Stop				
One-screw mounted	—	—	ZBAES35C	ZBAES35C
Three-screw mounted	—	—	ZBAES35T	ZBAES35T
Snap-on	—	—	ZBAES35N	ZBAES35N

Notes

① For ordering information, see **Page 328**.

② For information on Printed Marking Tag Options, see **Page 329**.

Screw Connection Multi-Conductor Ground Blocks

Terminal Width			5.2 mm	6.2 mm
Maximum Wire Size			12 AWG/2.5 mm ²	10 AWG/4 mm ²
IEC 60 947-7-2 in V/A/AWG			—/—/26-12	—/—/26-10
UL-cUL Ratings in V/A/AWG			—/—/26-12	—/—/26-10
Description	Color	Number of Positions	Catalog Number	Catalog Number

Product Selection

Screw connection multi-conductor ground block	Green/ yellow	—	XBUT25D12PE	XBUT4D12PE
		—	XBUT25D22PE	XBUT4D22PE

Accessories

End cover	Gray	—	XBACUT4D12	XBACUT4D12
		—	XBACUT4D22	XBACUT4D22
End cover segment	Gray	—	XBASUT4	XBASUT4
Partition plate	—	—	XBATUTD12	XBATUTD12
Plug-in bridge—for cross connections in the bridge shaft	Red	2	XBAFBS25	XBAFBS26
		3	XBAFBS35	XBAFBS36
		5	XBAFBS55	XBAFBS56
		10	XBAFBS105	XBAFBS106
		50	XBAFBS505	XBAFBS506
Test adapter	—	—	XBATSPA14	XBATSPA14
2.3 mm dia. test plug	—	—	XBATSMPS-^①	XBATSMPS-^①
Modular test plug	—	—	XBATSPS5	XBATSPS6
Blank marker strip (strip of 10)	White	—	XBMZB5^②	XBMZB6^②

DIN Rail

35 mm x 7.5 mm x 2m (slotted)	—	—	XBANS3575P	XBANS3575P
35 mm x 7.5 mm x 2m (solid)	—	—	XBANS3575U	XBANS3575U
35 mm x 15 mm x 2m (slotted)	—	—	XBANS3515P	XBANS3515P
35 mm x 15 mm x 2m (solid)	—	—	XBANS3515U	XBANS3515U

End-Stop

One-screw mounted	—	—	XBAES35C	XBAES35C
Three-screw mounted	—	—	XBAES35T	XBAES35T
Snap-on	—	—	XBAES35N	XBAES35N

Notes

① For ordering information, see **Page 328**.

② For information on Printed Marking Tag Options, see **Page 329**.

Screw Connection Double Level Terminal Blocks

Description	Color	Number of Positions	6.2 mm	6.2 mm
			10 AWG/4 mm ² 800/36/26-10 300/30/26-10	10 AWG/4 mm ² —/—/26-10 —/—/26-10
Terminal Width Maximum Wire Size IEC 60 947-7-1 in V/A/AWG UL-cUL Ratings in V/A/AWG			Catalog Number	Catalog Number
Product Selection				
Screw connection double level	Gray	—	XBUTT4	—
	Blue	—	XBUTT4BU	—
	Red	—	XBUTT4RD	—
Screw connection double level—terminal block with potential distribution between the levels	Gray	—	XBUTT4PV	—
Screw connection double level—ground block	Green/ yellow	—	—	XBUTT4PE
Accessories				
End cover	Gray	—	XBACUTT4	XBACUTT4
Spacer plate	Gray	—	XBDPUTT4	XBDPUTT4
Partition plate	—	—	XBATUTT4	XBATUTT4
Plug-in bridge—for cross connections in the bridge shaft	Red	2	XBAFBS26	XBAFBS26
		3	XBAFBS36	XBAFBS36
		5	XBAFBS56	XBAFBS56
		10	XBAFBS106	XBAFBS106
		50	XBAFBS506	XBAFBS506
Test adapter	—	—	XBATSPAI4	XBATSPAI4
2.3 mm dia. test plug	—	—	XBATSMPS-^①	XBATSMPS-^①
Modular test plug	—	—	XBATSPS6	XBATSPS6
Blank marker strip (strip of 10)	White	—	XBMZB6^②	XBMZB6^②
DIN Rail				
35 mm x 7.5 mm x 2m (slotted)	—	—	XBANS3575P	XBANS3575P
35 mm x 7.5 mm x 2m (solid)	—	—	XBANS3575U	XBANS3575U
35 mm x 15 mm x 2m (slotted)	—	—	XBANS3515P	XBANS3515P
35 mm x 15 mm x 2m (solid)	—	—	XBANS3515U	XBANS3515U
End-Stop				
One-screw mounted	—	—	XBAES35C	XBAES35C
Three-screw mounted	—	—	XBAES35T	XBAES35T
Snap-on	—	—	XBAES35N	XBAES35N

Notes

① For ordering information, see **Page 328**.

② For information on Printed Marking Tag Options, see **Page 329**.

Screw Connection Triple Level Sensor/Actuator Terminal Blocks

Terminal Width	6.2 mm	6.2 mm		
Maximum Wire Size	14 AWG/2.5 mm ²	14 AWG/2.5 mm ²		
Connection Data in V/A/AWG	250/26/24-12	—		
IEC 60 947-7-1 in V/A/AWG	—	250/30/24-12		
UL-cUL Ratings in V/A/AWG	300/15/30-14	300/15/30-14		
Description	Color	Number of Positions	Catalog Number	Catalog Number
Product Selection				
Screw connection triple level	Gray blue	—	XB3UKA25	XB3UKF25
Screw connection triple level w/red LED, 15–30 Vdc, 2.5–7.5A	Gray	—	XB3UKA25L24	—
Screw connection with ground connection	Gray	—	XB3UKA24PE	XB3UKF24PE
Screw connection with ground connection and LED indicator	Gray	—	XB3UKA24PEL24	—
Accessories				
Insertion bridge	Blue	80	XBAEB80DIKB	XBAEB80DIKB
	Red	80	XBAEB80DIKR	XBAEB80DIKR
	Blue	10	XBAEB10DIKB	XBAEB10DIKB
	Red	10	XBAEB10DIKR	XBAEB10DIKR
Blank marker strip (strip of 10)	White	—	XBMZB6 ①	XBMZB6 ①
DIN Rail				
35 mm x 7.5 mm x 2m (slotted)	—	—	XBANS3575P	XBANS3575P
35 mm x 7.5 mm x 2m (solid)	—	—	XBANS3575U	XBANS3575U
35 mm x 15 mm x 2m (slotted)	—	—	XBANS3515P	XBANS3515P
35 mm x 15 mm x 2m (solid)	—	—	XBANS3515U	XBANS3515U
End-Stop				
One-screw mounted	—	—	XBAES35C	XBAES35C
Three-screw mounted	—	—	XBAES35T	XBAES35T
Snap-on	—	—	XBAES35N	XBAES35N

Note

① For information on Printed Marking Tag Options, see **Page 329**.

Screw Connection Fuse Terminal Blocks

Terminal Width Maximum Wire Size IEC 60 947-7-3 in V/A/AWG IEC 60 947-7-3 as Disconnected Terminal Block in V/A/AWG UL-cUL Ratings in V/A/AWG			6.2 mm 10 AWG/4 mm ² ①/6.3/26-10 — 600/6.3/26-10	8.2 mm 8 AWG/6 mm ² ①/10/24-8 — 400/10/24-8	12 mm 6 AWG/16 mm ² ②/③/20-4 800/10/20-6 300/20/22-6
Description	Color	Number of Positions	Catalog Number	Catalog Number	Catalog Number
Product Selection					
Fuse terminal block for 5 x 20 mm fuse	Black	—	XBUT4FBE	—	XBUK10FBCE
Fuse terminal block for 6.3 x 32 mm (1/4 x 1-1/4 in) fuse	Black	—	—	XBUT6FBN	XBUK10FBCN
Fuse terminal block w/LED 12–30V, 1–2.5 mA	Black	—	XBUT4FBEL24	XBUT6FBNL24	—
Fuse terminal block w/LED 30–60V, 0.8–2.0 mA	Black	—	XBUT4FBEL60	XBUT6FBNL60	—
Fuse terminal block w/LED 110–250V, 0.5–2.5 mA	Black	—	XBUT4FBEL250	XBUT6FBNL250	—
Fuse terminal block w/LED 15–30V, 1–2.5 mA, 5 x 20 mm	Black	—	—	—	XBUK10FBCEL24
Fuse terminal block w/LED 15–30V, 1–2.5 mA, 6.3 x 32 mm	Black	—	—	—	XBUK10FBCNL24
Fuse terminal block w/LED 110–250V, 0.5–1.1A, 5 x 20 mm	Black	—	—	—	XBUK10FBCEL250
Fuse terminal block w/LED 110–250V, 0.5–1.1A, 6.3 x 32 mm	Black	—	—	—	XBUK10FBCNL250
Accessories					
End cover	—	—	③	③	—
Plug-in bridge—for cross connections in the bridge shaft	Red	2	XBAFBS26	XBAFBS28	—
		3	XBAFBS36	XBAFBS38	—
		5	XBAFBS56	XBAFBS58	—
		10	XBAFBS106	XBAFBS108	—
		50	XBAFBS506	XBAFBS508	—
Fixed bridge	—	2	—	—	XBAFI212
Screw heads with insulating collar	—	10	—	—	XBAFI1012
Blank marker strip center labeling (strip of 10)	White	—	XBMZB5 ④	XBMZB6 ④	—
Blank marker strip external labeling (strip of 10)	White	—	XBMZB6 ④	XBMZB8 ④	—
Blank marker strip (strip of 10)	White	—	—	—	XBMZB6 ④
DIN Rail					
35 mm x 7.5 mm x 2m (slotted)	—	—	XBANS3575P	XBANS3575P	XBANS3575P
35 mm x 7.5 mm x 2m (solid)	—	—	XBANS3575U	XBANS3575U	XBANS3575U
35 mm x 15 mm x 2m (slotted)	—	—	XBANS3515P	XBANS3515P	XBANS3515P
35 mm x 15 mm x 2m (solid)	—	—	XBANS3515U	XBANS3515U	XBANS3515U
End-Stop					
One-screw mounted	—	—	XBAES35C	XBAES35C	XBAES35C
Three-screw mounted	—	—	XBAES35T	XBAES35T	XBAES35T
Snap-on	—	—	XBAES35N	XBAES35N	XBAES35N

Notes

Max. power dissipation at 23°C (based on DIN EN 60 947-7-3: 2003-7. When selecting cartridge fuse inserts, please ensure that the maximum power dissipation specified above is not exceeded. Details can be obtained from the fuse suppliers. Cartridge fuse inserts 5 x 20 mm based on DIN EN 60 947-7-3: 2003-7.

Terminal Block	U (V)	Overload Protection		I _{max.} (A)
		Individual	Interconnected	
XBUT4FBE	250	1.6W	1.6W	6.3

If the fuse is defective, the downstream circuit is not off load.

- ① As disconnect terminal block 400V, as fuse terminal block 250V.
- ② The current is determined by the fuse used, the voltage by the selected light indicator.
- ③ XBUT4FBE and XBUT6FBN have an enclosed design. The use of an end cover is not required.
- ④ For information on Printed Marking Tag Options, see **Page 329**.

Spring Cage Single Level—Through-Feed Terminal Blocks

Terminal Width Maximum Wire Size IEC 60 947-7-1 in V/A/AWG EN 50 019 ^① in V/A/AWG UL-cUL Ratings in V/A/AWG			5.2 mm 12 AWG/2.5 mm ² 800/31/28-12 550/25/21/24-12 600/20/26-12	6.2 mm 10 AWG/4 mm ² 800/40/28-10 550/34/30/24-10 600/30/20-10	8.2 mm 8 AWG/6 mm ² 800/52/24-8 550/45/36/20-8 600/50/20-8
Description	Color	Number of Positions	Catalog Number	Catalog Number	Catalog Number
Product Selection					
Spring cage single level—through-feed	Gray	—	XBPT25	XBPT4	XBPT6
	Blue	—	XBPT25BU	XBPT4BU	XBPT6BU
	White	—	XBPT25WH	—	—
	Red	—	XBPT25RD	—	—
	Black	—	XBPT25BK	—	—
Accessories					
End cover	Gray	—	XBACPT25	XBACPT4	XBACPT6
Partition plate	—	—	XBATPT4	XBATPT4	XBATPT6
Plug-in bridge—for cross connections in the terminal center	Red	2	XBAFBS25	XBAFBS26	XBAFBS28
		3	XBAFBS35	XBAFBS36	—
		5	XBAFBS55	XBAFBS56	—
		10	XBAFBS105	XBAFBS106	—
		50	XBAFBS505	XBAFBS506	—
Reducing bridge	Red	—	—	—	—
Test adapter	—	—	XBATSPA14	XBATSPA14	XBATSPA14
2.3 mm dia. test plug	—	—	XBATSMPS-^②	XBATSMPS-^②	XBATSMPS-^②
Modular test plug	—	—	XBATSPS5	XBATSPS6	XBATSPS8
Blank marker strip external labeling	White	—	XBMZBF5^③	XBMZBF6^③	XBMZBF8^③
Blank marker strip center labeling (strip of 10)	White	—	XBMZB5^③	XBMZB6^③	XBMZB8^③
DIN Rail					
35 mm x 7.5 mm x 2m (slotted)	—	—	XBANS3575P	XBANS3575P	XBANS3575P
35 mm x 7.5 mm x 2m (solid)	—	—	XBANS3575U	XBANS3575U	XBANS3575U
35 mm x 15 mm x 2m (slotted)	—	—	XBANS3515P	XBANS3515P	XBANS3515P
35 mm x 15 mm x 2m (solid)	—	—	XBANS3515U	XBANS3515U	XBANS3515U
End-Stop					
One-screw mounted	—	—	XBAES35C	XBAES35C	XBAES35C
Three-screw mounted	—	—	XBAES35T	XBAES35T	XBAES35T
Snap-on	—	—	XBAES35N	XBAES35N	XBAES35N

Notes

^① EU type—examination certificate number: KEMA 05ATEX2154 U (XBPT25), KEMA 05ATEX2155 U (XBPT4), KEMA 05ATEX2155 U (XBPT6), KEMA 05ATEX2156 U (XBPT10).

^② For ordering information, see **Page 328**.

^③ For information on Printed Marking Tag Options, see **Page 329**.

Spring Cage Single Level—Through-Feed Terminal Blocks, continued

Terminal Width Maximum Wire Size IEC 60 947-7-1 in V/A/AWG EN 50 019 ^① in V/A/AWG UL-cUL Ratings in V/A/AWG	10.2 mm 6 AWG/10 mm ² 800/65/24-6 550/50/63/16-6 600/65/16-6	12 mm 4 AWG/16 mm ² 800/90/24-4 550/65/82/16-4 600/50/16-4	16 mm 2 AWG/35 mm ² 800/125/14-2 750/108/14-2 600/115/14-2		
Description	Color	Number of Positions	Catalog Number	Catalog Number	Catalog Number
Product Selection					
Spring cage single level—through-feed	Gray	—	XBPT10	XBPT16	XBPT35
	Blue	—	XBPT10BU	XBPT16BU	XBPT35BU
	White	—	—	—	—
	Red	—	—	—	—
	Black	—	—	—	—
Accessories					
End cover	Gray	—	XBACPT10	XBACPT16	②
Partition plate	—	—	—	—	—
Plug-in bridge—for cross connections in the terminal center	Red	2	XBAFBS210	XBAFBS212	XBAFBS216
		3	—	—	—
		5	—	—	—
		10	—	—	—
		50	—	—	—
Reducing bridge	Red	—	XBARBST10	XBARBST16	—
Test adapter	—	—	—	—	—
2.3 mm dia. test plug	—	—	XBATSMPS-₃	XBATSMPS-₄	XBATSMPS-₅
Modular test plug	—	—	—	—	—
Blank marker strip external labeling	White	—	XBMZBF10 ^④	XBMZBF12 ^④	XBMZBF15 ^④
Blank marker strip center labeling (strip of 10)	White	—	XBMZB10 ^④	XBMZB12 ^④	XBMZB15 ^④
DIN Rail					
35 mm x 7.5 mm x 2m (slotted)	—	—	XBANS3575P	XBANS3575P	XBANS3575P
35 mm x 7.5 mm x 2m (solid)	—	—	XBANS3575U	XBANS3575U	XBANS3575U
35 mm x 15 mm x 2m (slotted)	—	—	XBANS3515P	XBANS3515P	XBANS3515P
35 mm x 15 mm x 2m (solid)	—	—	XBANS3515U	XBANS3515U	XBANS3515U
End-Stop					
One-screw mounted	—	—	XBAES35C	XBAES35C	XBAES35C
Three-screw mounted	—	—	XBAES35T	XBAES35T	XBAES35T
Snap-on	—	—	XBAES35N	XBAES35N	XBAES35N

Notes

① EU type—examination certificate number: KEMA 05ATEX2154 U (XBPT25), KEMA 05ATEX2155 U (XBPT4), KEMA 05ATEX2155 U (XBPT6), KEMA 05ATEX2156 U (XBPT10).

② XBPT35 has an enclosed design. The use of an end cover is not required.

③ For ordering information, see **Page 328**.

④ For information on Printed Marking Tag Options, see **Page 329**.

Screw Connection Single Level—Ground Blocks

Terminal Width	5.2 mm	6.2 mm	8.2 mm		
Maximum Wire Size	12 AWG/2.5 mm ²	10 AWG/4 mm ²	8 AWG/6 mm ²		
IEC 60 947-7-2 in V/A/AWG	—/—/28-12	—/—/28-10	—/—/24-8		
EN 50 019 ① in V/A/AWG	—/—/24-12	—/—/24-10	—/—/20-8		
UL-cUL Ratings in V/A/AWG	—/—/26-12	—/—/20-10	—/—/20-8		
Description	Color	Number of Positions	Catalog Number	Catalog Number	Catalog Number
Product Selection					
Spring cage single level ground block	Green/ yellow	—	XBPT25PE	XBPT4PE	XBPT6PE
Accessories					
End cover	Gray	—	XBACPT25	XBACPT4	XBACPT6
Plug-in bridge—for cross connections in the terminal center	—	2	—	—	—
Blank marker strip external labeling	White	—	XBMZBF5 ②	XBMZBF6 ②	XBMZBF8 ②
Blank marker strip center labeling (strip of 10)	White	—	XBMZB5 ②	XBMZB6 ②	XBMZB8 ②
DIN-Rail					
35 mm x 7.5 mm x 2m (slotted)	—	—	XBANS3575P	XBANS3575P	XBANS3575P
35 mm x 7.5 mm x 2m (solid)	—	—	XBANS3575U	XBANS3575U	XBANS3575U
35 mm x 15 mm x 2m (slotted)	—	—	XBANS3515P	XBANS3515P	XBANS3515P
35 mm x 15 mm x 2m (solid)	—	—	XBANS3515U	XBANS3515U	XBANS3515U
End-Stop					
One-screw mounted	—	—	XBAES35C	XBAES35C	XBAES35C
Three-screw mounted	—	—	XBAES35T	XBAES35T	XBAES35T
Snap-on	—	—	XBAES35N	XBAES35N	XBAES35N

Screw Connection Single Level—Ground Blocks, continued

Terminal Width	10.2 mm	12 mm	16 mm		
Maximum Wire Size	6 AWG/10 mm ²	4 AWG/16 mm ²	2 AWG/35 mm ²		
IEC 60 947-7-2 in V/A/AWG	—/65/24-6	—/90/24-4	—/125/14-2		
EN 50 019 ① in V/A/AWG	—/—/16-6	—/—/16-4	—/—/14-2		
UL-cUL Ratings in V/A/AWG	—/—/16-6	—/—/16-4	—/—/14-2		
Description	Color	Number of Positions	Catalog Number	Catalog Number	Catalog Number
Product Selection					
Spring cage single level ground block	Green/ yellow	—	XBPT10PE	XBPT16PE	XBPT35PE
Accessories					
End cover	Gray	—	XBACPT10	XBACPT16	③
Plug-in Bridge — for cross connections in the terminal center	—	2	XBAFBS210	XBAFBS212	XBAFBS216
Blank marker strip external labeling	White	—	XBMZBF10 ②	XBMZBF12 ②	XBMZBF15 ②
Blank marker strip center labeling (strip of 10)	White	—	XBMZB10 ②	XBMZB12 ②	XBMZB15 ②
DIN Rail					
35 mm x 7.5 mm x 2m (slotted)	—	—	XBANS3575P	XBANS3575P	XBANS3575P
35 mm x 7.5 mm x 2m (solid)	—	—	XBANS3575U	XBANS3575U	XBANS3575U
35 mm x 15 mm x 2m (slotted)	—	—	XBANS3515P	XBANS3515P	XBANS3515P
35 mm x 15 mm x 2m (solid)	—	—	XBANS3515U	XBANS3515U	XBANS3515U
End-Stop					
One-screw mounted	—	—	XBAES35C	XBAES35C	XBAES35C
Three-screw mounted	—	—	XBAES35T	XBAES35T	XBAES35T
Snap-on	—	—	XBAES35N	XBAES35N	XBAES35N

Notes

- ① EU type—examination certificate number: KEMA 05ATEX2154 U (XBPT25PE), KEMA 05ATEX2155 U (XBPT4PE, XBPT6PE), KEMA 05ATEX2156 U (9XBPT10PE).
- ② For information on Printed Marking Tag Options, see **Page 329**.
- ③ XBPT35PE has an enclosed design. The use of an end cover is not required.

Spring Cage Multi-Conductor Terminal Blocks

Description	Color	Number of Positions	5.2 mm	6.2 mm
			12 AWG/2.5 mm ² 800/28/28-12 550/25/21/24-12 600/20/26-12	10 AWG/4 mm ² 800/40/28-10 550/34/29/24-10 600/30/20-10
Product Selection				
Spring cage multi-conductor	Gray	—	XBPT25D12	XBPT4D12
		—	XBPT25D22	XBPT4D22
	Blue	—	XBPT25D12BU	XBPT4D12BU
		—	XBPT25D22BU	XBPT4D22BU
Spring cage multi-conductor with interrupted busbar	Gray	—	XBPT25D22U	XBPT4D22U
Accessories				
End cover	Gray	—	XBACPT25D12	XBACPT4D12
		—	XBACPT24D22	XBACPT4D22
End cover segment	Gray	—	XBASPT25	XBASPT4
Partition plate			XBATPTD12	XBATPTD12
			XBATPTD22	XBATPTD22
Plug-in bridge—for cross connections in the terminal center	Red	2	XBAFBS25	XBAFBS26
		3	XBAFBS35	XBAFBS36
		5	XBAFBS55	XBAFBS56
		10	XBAFBS105	XBAFBS106
		50	XBAFBS505	XBAFBS506
Test adapter	—	—	XBATSPA14	XBATSPA14
2.3 mm dia. test plug	—	—	XBATSMPS-^②	XBATSMPS-^②
Modular test plug	—	—	XBATSPS5	XBATSPS6
Blank marker strip external labeling	White	—	XBMZBF5^③	XBMZBF6^③
Blank marker strip center labeling (strip of 10)	White	—	XBMZB5^③	XBMZB6^③
DIN Rail				
35 mm x 7.5 mm x 2m (slotted)	—	—	XBANS3575P	XBANS3575P
35 mm x 7.5 mm x 2m (solid)	—	—	XBANS3575U	XBANS3575U
35 mm x 15 mm x 2m (slotted)	—	—	XBANS3515P	XBANS3515P
35 mm x 15 mm x 2m (solid)	—	—	XBANS3515U	XBANS3515U
End-Stop				
One-screw mounted	—	—	XBAES35C	XBAES35C
Three-screw mounted	—	—	XBAES35T	XBAES35T
Snap-on	—	—	XBAES35N	XBAES35N

Notes

^① EU type—examination certificate number: KEMA 05ATEX2154 U (XBPT25D12, XBPT25D22), KEMA 05ATEX2155 U (XBPT4D12, XBPT4D22).

^② For ordering information, see **Page 328**.

^③ For information on Printed Marking Tag Options, see **Page 329**.

Spring Cage Multi-Conductor Ground Blocks

Terminal Width

Maximum Wire Size

IEC 60 947-7-2 in V/A/AWG

EN 50 019 ^① in V/A/AWG

UL-cUL Ratings in V/A/AWG

Description

Color

Number of Positions

5.2 mm

12 AWG/2.5 mm²

—/—/28-12

—/—/24-12

—/—/26-12

Catalog Number

6.2 mm

10 AWG/4 mm²

—/—/28-10

—/—/24-10

—/—/20-10

Catalog Number

Product Selection

Description	Color	Number of Positions	Catalog Number	Catalog Number
Spring cage multi-conductor ground block	Green/ yellow	—	XBPT25D12PE	XBPT4D12PE
			XBPT25D22PE	XBPT4D22PE

Accessories

End cover	Gray	—	XBACPT25D12	XBACPT4D12
			XBACPT25D22	XBACPT4D22
End cover segment	Gray	—	XBASPT25	XBASPT4
Blank marker strip external labeling	White	—	XBMZBF5 ^②	XBMZBF6 ^②
Blank marker strip center labeling (strip of 10)	White	—	XBMZB5 ^②	XBMZB6 ^②

DIN Rail

35 mm x 7.5 mm x 2m (slotted)	—	—	XBANS3575P	XBANS3575P
35 mm x 7.5 mm x 2m (solid)	—	—	XBANS3575U	XBANS3575U
35 mm x 15 mm x 2m (slotted)	—	—	XBANS3515P	XBANS3515P
35 mm x 15 mm x 2m (solid)	—	—	XBANS3515U	XBANS3515U

End-Stop

One-screw mounted	—	—	XBAES35C	XBAES35C
Three-screw mounted	—	—	XBAES35T	XBAES35T
Snap-on	—	—	XBAES35N	XBAES35N

Notes

^① EU type—examination certificate number: KEMA 05ATEX2154 U (XBPT25D12, XBPT25D22), KEMA 05ATEX2155 U (XBPT4D12, XBPT4D22).

^② For information on Printed Marking Tag Options, see **Page 329**.

Spring Cage Double Level Blocks

Description	Color	Number of Positions	5.2 mm	6.2 mm
			Catalog Number	Catalog Number
Terminal Width				
Maximum Wire Size				
IEC 60 947-7-1 in V/A/AWG				
EN 50 019 ^① in V/A/AWG				
UL-cUL Ratings in V/A/AWG				
Product Selection				
Spring cage double level block	Gray	—	XBPTT25	XBPTT4
	Blue	—	XBPTT25BU	XBPTT4BU
Spring cage double level ground block	Green/ yellow	—	XBPTT25PE	XBPTT4PE
Spring cage double level—terminal block with potential distribution between the levels	Gray	—	XBPTT25PV	XBPTT4PV
Accessories				
End cover	Gray	—	XBACPTT25	XBACPTT4
Partition plate	—	—	XBATPTT4	XBATPTT4
Plug-in bridge—for cross connections in the terminal center	Red	2	XBAFBS25	XBAFBS26
		3	XBAFBS35	XBAFBS36
		5	XBAFBS55	XBAFBS56
		10	XBAFBS105	XBAFBS106
		50	XBAFBS505	XBAFBS506
Test adapter	—	—	XBATSPA14	XBATSPA14
Modular test plug	—	—	XBATSPS5	XBATSPS6
Blank marker strip (strip of 10)	White	—	XBZBF5 ^②	XBZBF6 ^②
DIN Rail				
35 mm x 7.5 mm x 2m (slotted)	—	—	XBANS3575P	XBANS3575P
35 mm x 7.5 mm x 2m (solid)	—	—	XBANS3575U	XBANS3575U
35 mm x 15 mm x 2m (slotted)	—	—	XBANS3515P	XBANS3515P
35 mm x 15 mm x 2m (solid)	—	—	XBANS3515U	XBANS3515U
End-Stop				
One-screw mounted	—	—	XBAES35C	XBAES35C
Three-screw mounted	—	—	XBAES35T	XBAES35T
Snap-on	—	—	XBAES35N	XBAES35N

Notes

^① EU type—examination certificate number: KEMA 05ATEX2154 U (XBPTT25, XBPTT25PE), KEMA 05ATEX2155 U (XBPTT4, XBPTT4PE).

^② For information on Printed Marking Tag Options, see **Page 329**.

Spring Cage Triple Level Blocks

Terminal Width	5.2 mm
Maximum Wire Size	12 AWG/2.5 mm ²
IEC 60 947-7-1 in V/A/AWG	500/28/28-12
UL-cUL Ratings in V/A/AWG	600/20/26-12

Description	Color	Number of Positions	Catalog Number
Product Selection			
Spring cage triple level block	Gray	—	XBPTK25
Spring cage triple level—terminal block with potential distribution between the levels	Gray	—	XBPTK25PV
Accessories			
End cover	Gray	—	XBACPT25K
Plug-in bridge—for cross connections in the terminal center	Red	2	XBAFBS25
		3	XBAFBS35
		5	XBAFBS55
		10	XBAFBS105
		50	XBAFBS505
Test adapter	—	—	XBATSPA14
Modular test plug	—	—	XBATSPS5
Blank marker strip (strip of 10)	White	—	XBMZBF5 ①
DIN Rail			
35 mm x 7.5 mm x 2m (slotted)	—	—	XBANS3575P
35 mm x 7.5 mm x 2m (solid)	—	—	XBANS3575U
35 mm x 15 mm x 2m (slotted)	—	—	XBANS3515P
35 mm x 15 mm x 2m (solid)	—	—	XBANS3515U
End-Stop			
One-screw mounted	—	—	XBAES35C
Three-screw mounted	—	—	XBAES35T
Snap-on	—	—	XBAES35N

Note

① For information on Printed Marking Tag Options, see **Page 329**.

Spring Cage Fuse Terminal Block

Terminal Width

Maximum Wire Size

IEC 60 947-7-3 with Fuse in V/A/AWG

IEC 60 947-7-3 as Disconnect Terminal Block in V/A/AWG

UL-cUL Ratings in V/A/AWG

Description	Color	Number of Positions	6.2 mm	8.2 mm
			10 AWG/4 mm ² ①/③/28-10 250/6.3/28-10 300/6.3/24-10	10 AWG/4 mm ² 400/10/28-10 400/10/28-10 300/10/24-10
Product Selection				
Fuse terminal block for 5 x 20 mm fuse	Black	—	XBPT4FBE	—
Fuse terminal block w/LED 15–30V, 3.5–8.1A	Black	—	XBPT4FBEL24	—
Fuse terminal block w/LED 30–60V, 0.8–2.0A	Black	—	XBPT4FBEL60	—
Fuse terminal block w/LED 110–250V, 0.5–1.0A	Black	—	XBPT4FBEL250	—
Fuse terminal block for 6.3 x 32 mm (1/4 x 1-1/4 in) fuse	Black	—	—	XBPT4FBN
Fuse terminal block w/LED 12–30V, 1.0–2.5 mA	Black	—	—	XBPT4FBNL24
Fuse terminal block w/LED 110–250V, 0.5–2.5 mA	Black	—	—	XBPT4FBNL250
Accessories				
Partition plate	—	—	XBATPT4	XBATQTD12
Plug-in bridge—for cross connections in the terminal center	Red	2	XBAFBS26	XBAFBS28
		3	XBAFBS36	—
		5	XBAFBS56	—
		10	XBAFBS106	—
Blank marker strip external labeling	White	—	XBMZBF6 ②	XBMZBF8 ②
Blank marker strip center labeling (strip of 10)	White	—	XBMZB5 ②	XBMZB6 ②
DIN Rail				
35 mm x 7.5 mm x 2m (slotted)	—	—	XBANS3575P	XBANS3575P
35 mm x 7.5 mm x 2m (solid)	—	—	XBANS3575U	XBANS3575U
35 mm x 15 mm x 2m (slotted)	—	—	XBANS3515P	XBANS3515P
35 mm x 15 mm x 2m (solid)	—	—	XBANS3515U	XBANS3515U
End-Stop				
One-screw mounted	—	—	XBAES35C	XBAES35C
Three-screw mounted	—	—	XBAES35T	XBAES35T
Snap-on	—	—	XBAES35N	XBAES35N

Notes

The cartridge fuse holders should be selected according to the maximum power dissipation (self-heating) of the cartridge fuse inserts. The thermal conditions in closed fuse holes should be checked according to the application and installation. Higher ambient temperatures are an additional strain on fuse inserts. In applications of this kind, the shift of the rated current should be taken into consideration accordingly. Max. power dissipation at 23°C (in acc. with IEC 60 947-7-3). When selecting cartridge fuse inserts, please ensure that the maximum power dissipation specified at right is not exceeded. Details can be obtained from the fuse suppliers. Cartridge fuse inserts 5 x 20 and 6.3 x 32 mm in acc. with IEC 60 947-7-3.

Terminal Block	U (V)	Individual	Interconnected
Overload Protection			
XBPT4FBN	400	1.6W	1.6W
XBPT4FBE	250	1.6W	1.6W
Short Circuit Protection Only			
XBPT4FBN	400	4W	2.5W
XBPT4FBE	250	4W	2.5W

① The current is determined by the fuse used, the voltage by the selected light indicator See table above.

② For information on Printed Marking Tag Options, see **Page 329**.

Insulation Displacement Connection—Single Level Terminal Blocks

Terminal Width	5.2 mm	5.2 mm	6.2 mm	6.2 mm		
Maximum Wire Size	16 AWG/1.5 mm ²	16 AWG/1.5 mm ²	14 AWG/2.5 mm ²	14 AWG/2.5 mm ²		
Connection Data ^① in V/A/AWG	800/17.5/24-16	—/—/24-16	800/24/20-14	—/—/20-14		
EN 50 019 in V/A/AWG	550/16/24-16	—/—/24-16	—	—		
UL-cUL Ratings in V/A/AWG	600/10/24-16	—/—/24-16	600/15/20-14	—/—/20-14		
Description	Color	Number of Positions	Catalog Number	Catalog Number	Catalog Number	Catalog Number
Product Selection						
IDC terminal block—single level	Gray	—	XBQT15	—	XBQT25	—
	Blue	—	XBQT15BU	—	XBQT25BU	—
IDC ground block—single level	Green/ yellow	—	—	XBQT15PE	—	XBQT25PE
Accessories						
End cover	Gray	—	XBACQT15	XBACQT15	XBACQT25	XBACQT25
Partition plate	—	—	XBATQT25	XBATQT25	XBATQT25	XBATQT25
Plug-in bridge	Red	2	XBAFBS25	XBAFBS25	XBAFBS26	XBAFBS26
		3	XBAFBS35	XBAFBS35	XBAFBS36	XBAFBS36
		5	XBAFBS55	XBAFBS55	XBAFBS56	XBAFBS56
		10	XBAFBS105	XBAFBS105	XBAFBS106	XBAFBS106
		50	XBAFBS505	XBAFBS505	XBAFBS506	XBAFBS506
Test adapter	—	—	XBATSPA14	XBATSPA14	XBATSPA14	XBATSPA14
2.3 mm dia. test plug	—	—	XBATSMPS_ ^②	XBATSMPS_ ^②	XBATSMPS_ ^②	XBATSMPS_ ^②
Modular test plug	—	—	XBATSPS5	XBATSPS5	XBATSPS6	XBATSPS6
Blank marker strip center and external marking	White	—	XBMZBF5 ^③	XBMZBF5 ^③	XBMZBF6 ^③	XBMZBF6 ^③
Blank marker strip center labeling (strip of 10)	White	—	XBMZB5 ^③	XBMZB5 ^③	XBMZB6 ^③	XBMZB6 ^③
DIN Rail						
35 mm x 7.5 mm x 2m (slotted)	—	—	XBANS3575P	XBANS3575P	XBANS3575P	XBANS3575P
35 mm x 7.5 mm x 2m (solid)	—	—	XBANS3575U	XBANS3575U	XBANS3575U	XBANS3575U
35 mm x 15 mm x 2m (slotted)	—	—	XBANS3515P	XBANS3515P	XBANS3515P	XBANS3515P
35 mm x 15 mm x 2m (solid)	—	—	XBANS3515U	XBANS3515U	XBANS3515U	XBANS3515U
End-Stop						
One-screw mounted	—	—	XBAES35C	XBAES35C	XBAES35C	XBAES35C
Three-screw mounted	—	—	XBAES35T	XBAES35T	XBAES35T	XBAES35T
Snap-on	—	—	XBAES35N	XBAES35N	XBAES35N	XBAES35N

Notes

^① EU type—examination certificate number: KEMA 05ATEX2157 U (XBQT15, XBQT15PE), KEMA 05ATEX2160 U (XBQT25, XBQT25PE).

^② For ordering information, see **Page 328**.

^③ For information on Printed Marking Tag Options, see **Page 329**.

Insulation Displacement Connection—Multi-Conductor

Terminal Width Maximum Wire Size Connection Data in V/A/AWG EN 50 019 ^① in V/A/AWG UL-cUL Ratings in V/A/AWG			5.2 mm 16 AWG/1.5 mm ² 800/17.5/24-16 550/16/24-16 600/10/24-16	5.2 mm 16 AWG/1.5 mm ² —/—/24-16 —/—/24-16 —/—/24-16	6.2 mm 14 AWG/2.5 mm ² 800/24/20-14 — 600/15/20-14	6.2 mm 14 AWG/2.5 mm ² —/—/20-14 — —/—/20-14
Description	Color	Number of Positions	Catalog Number	Catalog Number	Catalog Number	Catalog Number
Product Selection						
IDC terminal block—multi-conductor	Gray	—	XBQT15D12	—	XBQT25D12	—
		—	XBQT15D22	—	XBQT25D12BU	—
	Blue	—	XBQT15D12BU	—	—	—
		—	XBQT15D22BU	—	—	—
IDC ground block—multi-conductor	Green/ yellow	—	—	XBQT15D12PE	—	XBQT25D12PE
		—	—	XBQT15D22PE	—	—
Accessories						
End cover	Gray	—	XBACQT15D12	XBACQT15D12	XBACQT25D12	XBACQT25D12
			XBACQT15D22	XBACQT15D22	—	—
End cover segment	Gray	—	XBASQT15	XBASQT15	XBASQT25	XBASQT25
Partition plate			XBATQTD12	XBATQTD12	XBATQTD12	XBATQTD12
			XBATQTD22	XBATQTD22	—	—
Plug-in bridge	Red	2	XBAFBS25	XBAFBS25	XBAFBS26	XBAFBS26
		3	XBAFBS35	XBAFBS35	XBAFBS36	XBAFBS36
		5	XBAFBS55	XBAFBS55	XBAFBS56	XBAFBS56
		10	XBAFBS105	XBAFBS105	XBAFBS106	XBAFBS106
		50	XBAFBS505	XBAFBS505	XBAFBS506	XBAFBS506
Test adapter	—	—	XBATSPA14	XBATSPA14	XBATSPA14	XBATSPA14
2.3 mm dia. test plug	—	—	XBATSMPS_②	XBATSMPS_②	XBATSMPS_②	XBATSMPS_②
Modular test plug	—	—	XBATSPS5	XBATSPS5	XBATSPS6	XBATSPS6
Blank marker strip center and external marking	White	—	XBMBZF5 ③	XBMBZF5 ③	XBMBZF6 ③	XBMBZF6 ③
Blank marker strip center labeling (strip of 10)	White	—	XBMBZB5 ③	XBMBZB5 ③	XBMBZB6 ③	XBMBZB6 ③
DIN Rail						
35 mm x 7.5 mm x 2m (slotted)	—	—	XBANS3575P	XBANS3575P	XBANS3575P	XBANS3575P
35 mm x 7.5 mm x 2m (solid)	—	—	XBANS3575U	XBANS3575U	XBANS3575U	XBANS3575U
35 mm x 15 mm x 2m (slotted)	—	—	XBANS3515P	XBANS3515P	XBANS3515P	XBANS3515P
35 mm x 15 mm x 2m (solid)	—	—	XBANS3515U	XBANS3515U	XBANS3515U	XBANS3515U
End-Stop						
One-Screw Mounted	—	—	XBAES35C	XBAES35C	XBAES35C	XBAES35C
Three-Screw Mounted	—	—	XBAES35T	XBAES35T	XBAES35T	XBAES35T
Snap-On	—	—	XBAES35N	XBAES35N	XBAES35N	XBAES35N

Notes

① EU type—examination certificate number: KEMA 05ATEX2157 U (XBQT15, XBQT15PE), KEMA 05ATEX2160 U (XBQT25, XBQT25PE).

② For ordering information, see **Page 328**.

③ For information on Printed Marking Tag Options, see **Page 329**.

Insulation Displacement Connection—Double Level

Terminal Width	5.2 mm	5.2 mm
Maximum Wire Size	16 AWG/1.5 mm ²	16 AWG/1.5 mm ²
Connection Data in V/A/AWG	800/17.5/24-16	—/—/24-16
EN 50 019^① in V/A/AWG	420/15/24-16	—/—/24-16
UL-cUL Ratings in V/A/AWG	600/10/24-16	—/—/24-16
Description	Color	Number of Positions
		Catalog Number

Product Selection

IDC terminal block—double level	Gray	—	XBQTT15	—
	Blue	—	XBQTT15BU	—
IDC ground block—double level	Green/ yellow	—	—	XBQTT15PE

Accessories

End cover	Gray	—	XBACQTT15	XBACQTT15
Partition plate	—	—	XBATQTT15	XBATQTT15
Plug-in bridge	Red	2	XBAFBS25	XBAFBS25
		3	XBAFBS35	XBAFBS35
		5	XBAFBS55	XBAFBS55
		10	XBAFBS105	XBAFBS105
		20	XBAFBS505	XBAFBS505
Test adapter	—	—	XBATSPAI4	XBATSPAI4
2.3 mm dia. test plug	—	—	XBATSMPS-^②	XBATSMPS-^②
Modular test plug	—	—	XBATSPS5	XBATSPS5
Blank marker strip	White	—	XBMZBF5^③	XBMZBF5^③

DIN Rail

35 mm x 7.5 mm x 2m (slotted)	—	—	XBANS3575P	XBANS3575P
35 mm x 7.5 mm x 2m (solid)	—	—	XBANS3575U	XBANS3575U
35 mm x 15 mm x 2m (slotted)	—	—	XBANS3515P	XBANS3515P
35 mm x 15 mm x 2m (solid)	—	—	XBANS3515U	XBANS3515U

End-Stop

One-screw mounted	—	—	XBAES35C	XBAES35C
Three-screw mounted	—	—	XBAES35T	XBAES35T
Snap-on	—	—	XBAES35N	XBAES35N

Notes

- ① EU type—examination certificate number: KEMA 05ATEX2157 U.
 ② For ordering information, see **Page 328**.
 ③ For information on Printed Marking Tag Options, see **Page 329**.

Insulation Displacement Connection Fuse Terminal Blocks

Terminal Width Maximum Wire Size Connection Data in V/A/AWG UL-cUL Ratings in V/A/AWG			6.2 mm 14 AWG/2.5 mm ² ①/6.3/20-14 300/15/20-14
Description	Color	Number of Positions	Catalog Number
Product Selection			
IDC fuse terminal block	Black	—	XBQT25FBE
With LED 12–30V, 1–2.5 mA			XBQT25FBEL24
With LED 30–60V, 0.8–2.0 mA			XBQT25FBEL60
With LED 110–250, 0.5–2.5 mA			XBQT25FBEL250
Accessories			
End cover	Gray	—	XBACQT25D12
Partition plate	—	—	XBATQTD12
Plug-in bridge	Red	2	XBAFBS26
		3	XBAFBS36
		5	XBAFBS56
		10	XBAFBS106
Test adapter	—	—	XBATSPA14
2.3 mm dia. test plug	—	—	XBATSMPS_ ②
Modular test plug	—	—	XBATSPS5
Blank marker strip center and external marking	White	—	XBMZBF6 ③
Blank marker strip lever labeling	White	—	XBMZB5 ③
Blank marker strip center labeling (strip of 10)	White	—	XBMZB6 ③
DIN Rail			
35 mm x 7.5 mm x 2m (slotted)	—	—	XBANS3575P
35 mm x 7.5 mm x 2m (solid)	—	—	XBANS3575U
35 mm x 15 mm x 2m (slotted)	—	—	XBANS3515P
35 mm x 15 mm x 2m (solid)	—	—	XBANS3515U
End Stop			
One-screw mounted	—	—	XBAES35C
Three-screw mounted	—	—	XBAES35T
Snap-on	—	—	XBAES35N

Notes

- ① As disconnect terminal block, 400V; as fuse terminal block, 250V.
 ② For ordering information, see **Page 328**.
 ③ For information on Printed Marking Tag Options, see **Page 329**.

Insulation Displacement Connection Disconnect and Component Terminal Blocks

Terminal Width	5.2 mm	5.2 mm		
Maximum Wire Size	16 AWG/1.5 mm ²	16 AWG/1.5 mm ²		
Connection Data in V/A/AWG	400/16/24-16	400/16/24-16		
UL-cUL Ratings in V/A/AWG	600/10/24-16	600/10/24-16		
Description	Color	Number of Positions	Catalog Number	Catalog Number
Product Selection				
IDC disconnect and component terminal block	Gray	—	XBQT15MT	XBQT15TG
Accessories				
End cover	Gray	—	XBACQT15D12	XBACQT15D12
End cover segment	Gray	—	XBASQT15	XBASQT15
Partition plate	—	—	XBATQTD12	XBATQTD12
Plug-in bridge	Red	2	XBAFBS25	XBAFBS25
		3	XBAFBS35	XBAFBS35
		5	XBAFBS55	XBAFBS55
		10	XBAFBS105	XBAFBS105
Test adapter	—	—	XBATSPA14	XBATSPA14
2.3 mm dia. test plug	—	—	XBATSMPS-^①	XBATSMPS-^①
Modular test plug	—	—	XBATSPS5	XBATSPS5
Component plug	Gray	—	—	XBPCO
Fuse plug	Black	—	—	XBPFU
Fuse plug with light indicator for 12–30V	Black	—	—	XBPFUL24
Fuse plug with light indicator for 110–250V	Black	—	—	XBPFUL250
Blank marker strip center and external marking	White	—	XBMZBF5^②	XBMZBF5^②
Blank marker strip center labeling (strip of 10)	White	—	XBMZB5^②	XBMZB5^②
DIN Rail				
35 mm x 7.5 mm x 2m (slotted)	—	—	XBANS3575P	XBANS3575P
35 mm x 7.5 mm x 2m (solid)	—	—	XBANS3575U	XBANS3575U
35 mm x 15 mm x 2m (slotted)	—	—	XBANS3515P	XBANS3515P
35 mm x 15 mm x 2m (solid)	—	—	XBANS3515U	XBANS3515U
End-Stop				
One-screw mounted	—	—	XBAES35C	XBAES35C
Three-screw mounted	—	—	XBAES35T	XBAES35T
Snap-on	—	—	XBAES35N	XBAES35N

Notes

① For ordering information, see **Page 328**.

② For information on Printed Marking Tag Options, see **Page 329**.

Miniature Circuit Breakers

Connection Data in Vac/Vdc			250/65
Description	Color	Number of Positions	Catalog Number
Product Selection			
Thermal miniature circuit breaker			
Nominal current 0.1A	Black	—	XBATCPT
Nominal current 0.25A	Black	—	XBATCPQ
Nominal current 0.5A	Black	—	XBATCPH
Nominal current 1.0A	Black	—	XBATCP1
Nominal current 2.0A	Black	—	XBATCP2
Nominal current 3.0A	Black	—	XBATCP3
Nominal current 4.0A	Black	—	XBATCP4
Nominal current 6.0A	Black	—	XBATCP6
Nominal current 8.0A	Black	—	XBATCP8
Nominal current 10.0A	Black	—	XBATCP10
Accessories			
Blank marker strip	White	—	XBMZBF5 ①

Flat-Type Fuse Terminal Blocks

Terminal Width			8.2 mm	8.2 mm
Maximum Wire Size			8 AWG/6 mm ²	8 AWG/6 mm ²
Connection Data in V/A/AWG			250/—/24-8	250/—/24-8
UL-cUL Ratings in V/A/AWG			300/30/26-8	300/30/26-8
Description	Color	Number of Positions	Catalog Number	Catalog Number
Product Selection				
Flat-type fuse terminal block	Black	—	XBUK6FSI	—
Flat-type fuse terminal block with ...				
LED Red 12 Vdc, 2.0 mA	Black	—	—	XBUK6FSIL12
LED Red 24 Vdc, 2.0 mA	Black	—	—	XBUK6FSIL24
Accessories				
Blank marker strip (strip of 10)	White	—	XBMZB8 ①	XBMZB8 ①

Spring Cage Fuse Terminal Blocks

Terminal Width			8.2 mm	8.2 mm
Maximum Wire Size			10 AWG/4 mm ²	10 AWG/4 mm ²
Connection Data in V/A/AWG			400/30/28-10	400/30/28-10
UL-cUL Ratings in V/A/AWG			300/30/24-10	300/30/24-10
Description	Color	Number of Positions	Catalog Number	Catalog Number
Product Selection				
Spring cage fuse terminal block	Black	—	XBPT4FSI	—
Spring cage fuse terminal block with ...				
LED red 12 Vdc, 2.0 mA	Black	—	—	XBPT4FSIL12
LED red 24 Vdc, 2.0 mA	Black	—	—	XBPT4FSIL24
Accessories				
Test adapter	—	—	XBATSPA14	XBATSPA14
2.3 mm dia. test plug	—	—	XBATSMPS-₂ ②	XBATSMPS-₂ ②
Modular test plug	—	—	XBATSPS8	XBATSPS8
Blank marker strip external marking	White	—	XBMZBF8 ①	XBMZBF8 ①
Blank marker strip center labeling (strip of 10)	White	—	XBMZB8 ①	XBMZB8 ①

Notes

① For information on Printed Marking Tag Options, see **Page 329**.

② For ordering information, see **Page 328**.

Accessories

End-Stop



End-Stops

Description	Size	Std. Pack	Catalog Number
Snap-on end stops	35 mm	50	XBAES35N
Universal end stops	35 mm	50	XBAES35T
	35 mm	50	XBAES35C

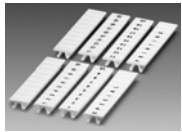
DIN Rails



DIN Rails—35 x 7.5 mm x 2m

Size	Std. Pack	Catalog Number
25	Slotted	XBANS3575P

Marker Strips



Marker Strips (Strip of 10)

Terminal Width (mm)	Std. Pack	Catalog Number
5.2	10	XBMZB5
6.2	10	XBMZB6
8.2	10	XBMZB8
10.2	10	XBMZB10
12	10	XBMZB12
16	10	XBMZB15 ^①
Flat		
5.2	10	XBMZBF5
6.2	10	XBMZBF6
8.2	10	XBMZBF8
10.2	10	XBMZBF10
12	10	XBMZBF12
16	10	XBMZBF15

Marker Sheets

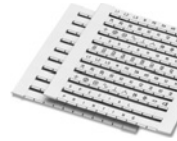
Terminal Width (mm)	Color	Std. Pack	Catalog Number
Blank Marker Sheets			
Marker Sheets (10 rows of 12)			
5.2	White	50	XBMPZB5
5.2	Blue	50	XBMPZB5BU
5.2	Red	50	XBMPZB5RD
5.2	Yellow	50	XBMPZB5YE
5.2	Green	50	XBMPZB5GN

Blank Marker Sheets



Terminal Width (mm)	Color	Std. Pack	Catalog Number
Marker Sheets (10 rows of 10)			
6.2	White	50	XBMPZB6
6.2	Blue	50	XBMPZB6BU
6.2	Red	50	XBMPZB6RD
6.2	Yellow	50	XBMPZB6YE
6.2	Green	50	XBMPZB6GN

Flat Marker Sheets



Terminal Width (mm)	Color	Std. Pack	Catalog Number
Flat Marker Sheets (10 rows of 10)			
5.2	White	10	XBMPZBF5
5.2	Orange	10	XBMPZBF5OG
6.2	White	10	XBMPZBF6
6.2	Orange	10	XBMPZBF6OG
8.2	White	10	XBMPZBF8

Test Plugs



Test Plugs

Color	Std. Pack	Catalog Number
2.3 mm		
—	10	XBATSPMSMT
Blue	10	XBATSPMSIHBU
White	10	XBATSPMSIHHW
Red	10	XBATSPMSIHRD
Black	10	XBATSPMSIHBK
4 mm		
—	10	XBATSPSMT
Blue	10	XBATSPSIHBU
White	10	XBATSPSIHHW
Red	10	XBATSPSIHRD
Black	10	XBATSPSIHBK

Note

^① All markers are strips of 10, except XBMZB15 which is a strip of 5.

Printed Marking Tags

Terminal Block
Marking TagHorizontal Printed
Marking Tag

Marking Tags for 5.2 mm Wide Terminal Blocks

Description		Catalog Number
ZB5 tags vertically numbered	1–10 ①	XBMZB5V/1
	11–20	XBMZB5V/11
	21–30	XBMZB5V/21
	31–40	XBMZB5V/31
	41–50	XBMZB5V/41
	51–60	XBMZB5V/51
	61–70	XBMZB5V/61
	71–80	XBMZB5V/71
	81–90	XBMZB5V/81
	91–100	XBMZB5V/91
ZBF5 tags vertically numbered	1–10 ①	XBMZBF5V/1
	11–20	XBMZBF5V/11
	21–30	XBMZBF5V/21
	31–40	XBMZBF5V/31
	41–50	XBMZBF5V/41
	51–60	XBMZBF5V/51
	61–70	XBMZBF5V/61
	71–80	XBMZBF5V/71
	81–90	XBMZBF5V/81
	91–100	XBMZBF5V/91

Marking Tags for 6.2 mm Wide Terminal Blocks

Description		Catalog Number
ZB6 tags vertically numbered	1–10 ①	XBMZB6V/1
	11–20	XBMZB6V/11
	21–30	XBMZB6V/21
	31–40	XBMZB6V/31
	41–50	XBMZB6V/41
	51–60	XBMZB6V/51
	61–70	XBMZB6V/61
	71–80	XBMZB6V/71
	81–90	XBMZB6V/81
	91–100	XBMZB6V/91
ZBF6 tags vertically numbered	1–10 ①	XBMZBF6V/1
	11–20	XBMZBF6V/11
	21–30	XBMZBF6V/21
	31–40	XBMZBF6V/31
	41–50	XBMZBF6V/41
	51–60	XBMZBF6V/51
	61–70	XBMZBF6V/61
	71–80	XBMZBF6V/71
	81–90	XBMZBF6V/81
	91–100	XBMZBF6V/91

Notes

See **Page 330** for marking tags for 8.2–16 mm wide terminal blocks.

① For text printed horizontally, change “V” in catalog number to “H.”

**Terminal Block
Marking Tag**



**Horizontal Printed
Marking Tag**



Marking Tags for 8.2 mm Wide Terminal Blocks

Description		Catalog Number
ZB8 tags vertically numbered	1–10 ①	XBMZB8V/1
	11–20	XBMZB8V/11
	21–30	XBMZB8V/21
	31–40	XBMZB8V/31
	41–50	XBMZB8V/41
	51–60	XBMZB8V/51
	61–70	XBMZB8V/61
	71–80	XBMZB8V/71
	81–90	XBMZB8V/81
	91–100	XBMZB8V/91
ZBF8 tags vertically numbered	1–10 ①	XBMZBF8V/1
	11–20	XBMZBF8V/11
	21–30	XBMZBF8V/21
	31–40	XBMZBF8V/31
	41–50	XBMZBF8V/41
	51–60	XBMZBF8V/51
	61–70	XBMZBF8V/61
	71–80	XBMZBF8V/71
	81–90	XBMZBF8V/81
	91–100	XBMZBF8V/91

Marking Tags for 10.2 mm Wide Terminal Blocks

Description		Catalog Number
ZB10 tags vertically numbered	1–10 ①	XBMZB10V/1
	11–20	XBMZB10V/11
	21–30	XBMZB10V/21
ZBF10 tags vertically numbered	1–10 ①	XBMZBF10V/1
	11–20	XBMZBF10V/11
	21–30	XBMZBF10V/21

Marking Tags for 12 mm Wide Terminal Blocks

Description		Catalog Number
ZB12 tags vertically numbered	1–10 ①	XBMZB12V/1
	11–20	XBMZB12V/11
	21–30	XBMZB12V/21
ZBF12 tags vertically numbered	11–10 ①	XBMZBF12V/1
	11–20	XBMZBF12V/11
	21–30	XBMZBF12V/21

Marking Tags for 16 mm Wide Terminal Blocks

Description		Catalog Number
ZB15 tags vertically numbered	11–10 ①	XBMZB15V/1
	11–20	XBMZB15V/11
	21–30	XBMZB15V/21
ZBF15 tags vertically numbered	1–10 ①	XBMZBF15V/1
	11–20	XBMZBF15V/11
	21–30	XBMZBF15V/21

Note

① For text printed horizontally, change “V” in catalog number to “H.”