

SPLICE BLOCK, FLEXIBAR-2 CABLES, 760 A UL, ALUMINUM

CATALOG NUMBER

SBF2C630AL



nVent ERIFLEX Power Blocks are the main DIN mounted output/input devices for connection between primary and secondary switchboard, or main input/output connection for machine or industrial equipment (such as invertor, air conditioning machines, etc.). The high short circuit rated large cross section blocks offer time savings and reliability in every panel configuration. The complete Power Blocks range offers multiple connection types with up to four cables, nVent ERIFLEX Flexibar Advanced, or IBS/IBSB Advanced power braids.

CERTIFICATIONS



FEATURES

Can be connected with round cross section cable or flat connection system like nVent ERIFLEX Flexibar Advanced or IBS/IBSB Advanced Insulated Braided Conductor

Compact power block with high short circuit current rating

Tinned copper or aluminum block allows for copper or aluminum conductor direct connections, or using ferrule

Screw retaining cover is hinged and removable

Design allows for visual inspection of conductor and confirmation of connection

Modular snap-together blocks for building multi-pole power blocks

Easily clips onto DIN rail or mounts to panel with screws

Voltage detection and measurement connection

95% fill ratio

RoHS compliant

Conforms to EN 45545 obtaining an HL3 classification for chapter R23 and HL2 classification for chapter R22

Halogen free plastic housing excluding the blue protection cover

PRODUCT ATTRIBUTES

Finish: Tinned Typ: Flexibar-2 Cables Typical Application Current Rating, UL: 760 A Material: Aluminum; Thermoplastic Line Side Max Conductor Size, UL: 200 mm? Load Side Max Conductor Size, UL: 200 kcmil Short Term Withstand Current (icw) 1s: 60 kA Max Current Rating, Insulated Power Braid, IEC: 910 A Max Current Rating, Newt ERFLEX Flexibar, IEC: 930 A Max Current Rating, UL/CSA: 760 A Peak Short Circuit Current (ick): 52 kA Rated Conditional Short-Circuit Current (icc): 24.8 kA Short Gircuit Current Rating (SCR): 100 kA Max Working Voltage, IEC (10): 1000, 1500 Max Working Voltage, UL (vin): 1000 Line Side Insulated Power Braid Cross Section: 240 mm? Line Side Insulated Power Braid Cross Section: 240 mm? Line Side Insulated Power Braid Cross Section: 240 mm? Line Side Insulated Power Braid Cross Section: 240 mm? Line Side Insulated Power Braid Cross Section: 240 mm? Line Side Insulated Power Braid Cross Section: 240 mm? Line Side Insulated Power Braid Cross Section: 240 mm? Line Side Insulated Power Braid Cross Section: 240 mm? Line Side Insulated Power Braid Cross Section: 240 mm? Line Side Insulated Power Braid Cross Section: 240 mm? Line Side	Article Number: 561173
Typical Application Current Rating, UE: 760 A Material: Alurninum; Thermoplastic Line Side Max Conductor Size, UE: 240 mm ⁹ Load Side Max Conductor Size, UE: 500 kcmil Short Term Withstand Current (lcw) 1s: 60 kA Max Current Rating, Insulated Power Braid, IEC: 910 A Max Current Rating, Insulated Power Braid, IEC: 930 A Max Current Rating, UE/CSA: 760 A Peak Short Circuit Current (lpk): 52 kA Rated Conditional Short-Circuit Current (lcc): 24.8 kA Short Circuit Current Rating (SCCR): 100 kA Max Working Voltage, IEC (U): 1000; 1500 Max Working Voltage, UL (Vin). 1000 Line Side Insulated Power Braid Cross Section: 240 mm ² Line Side Insulated Power Braid Cross Section: 240 mm ² Load Side Ornaections: 1 Line Side Ornaections: 2 Load Side Ornaections: 2 Load Side Ornaections: 2 Load Side Ornaections: 2 Load Side Wire Size - Ferrule: (2) 35 - 240 mm ² Load Side Wire Size - Yer 200 kcmil Dead Side Wire Size - So kcmil Load Side Wire Size - Ferrule: (2) 35 - 240 mm ² Load Side Wire Size - Yer 200 kcmil Dead Side Wire Size - Yer 200 kcmil Load Side Wire Size - So kcmil	Finish: Tinned
Naterial: Aluminum; ThermoplasticLine Side Max Conductor Size, UL: 240 mm³Load Side Max Conductor Size, UL: 500 kcmilShort Term Withstand Current (lcw) 1s: 60 kAMax Current Rating, Insulated Power Braid, IEC: 910 AMax Current Rating, Nevnt ERIFLEX Flexibar, IEC: 930 AMax Current Rating, UL/CSA: 760 APeak Short Circuit Current (lpk): 52 kARated Conditional Short-Circuit Current (lcc): 24.8 kAShort Circuit Current Rating (SCCR): 100 kAMax Working Voltage, IEC (UI): 1000; 1500Max Working Voltage, IEC (UI): 1000; 1500Max Working Voltage, UL (Vin): 1000Line Side Insulated Power Braid Cross Section: 240 mm²Line Side Insulated Power Braid Cross Section: 240 mm²Line Side Oumpet Size: #2 - 262 kcmilLoad Side Stranded Wire Size: (2) 35 - 240 mm²Load Side Wire Size: (2) #2 - 500 kcmilDepth: 4.03'Height: 7 1/2''Width: 2.1'Unit Weight: 1.5 lbCertification Details: ULØ 1953Complies With: IEC@ 60947-7-1Enclosure Rating: IP 20	Type: Flexibar-2 Cables
Line Side Max Conductor Size, UL: 240 mm² Load Side Max Conductor Size, UL: 500 kcmil Short Term Withstand Current (Icw) 1s: 60 kA Max Current Rating, Insulated Power Braid, IEC: 910 A Max Current Rating, UL/CSA: 760 A Peak Short Circuit Current (Ipk): 52 kA Rated Conditional Short-Circuit Current (Icc): 24.8 kA Short Circuit Current Rating (SCCR): 100 kA Max Working Voltage, IEC (UI): 1000; 1500 Max Working Voltage, IEC (UI): 1000; 1500 Max Working Voltage, UL (Vin): 1000 Line Side Number of Connections: 1 Line Side Insulated Power Braid Cross Section: 240 mm² Line Side Insulated Power Braid Cross Section: 240 mm² Line Side DLO Wire Size: #2 - 262 kcmil Load Side Compact Stranded Wire Size: (2) 35 - 240 mm² Load Side Stranded Wire Size : 2) 35 - 240 mm² Load Side Stranded Wire Size : 2) 35 - 240 mm² Load Side Stranded Wire Size : 2) 35 - 240 mm² Load Side Wire Size: (2) #2 - 500 kcmil Depth: 4.03' Height: 7 1/2' Widt: 2, 1' Unit Weight: 1.5 lb Certification Details: UL® 1953 Complies With: IEC® 60947 7.1 Enclosure Rating: IP 20	Typical Application Current Rating, UL: 760 A
Load Side Max Conductor Size, UL: 500 kcmilShort Term Withstand Current (Icw) 1s: 60 kAMax Current Rating, Insulated Power Braid, IEC: 910 AMax Current Rating, NUL/CSA: 760 APeak Short Circuit Current (Ipk): 52 kARated Conditional Short-Circuit Current (Icc): 24.8 kAShort Circuit Current Rating (SCCR): 100 kAMax Working Voltage, IEC (U): 1000; 1500Max Working Voltage, UL (Vin): 1000Line Side Insulated Power Braid Cross Section: 240 mm²Line Side Number of Connections: 1Line Side Number of Connections: 2Lad Side Number of Connections: 2Load Side Number Size: (2) #2 - 500 kcmilDepth: 4.03°Height: 7.1/2*Width: 2.1°Unit Weight: 1.5 IbCertification Details: UL® 1953Complies With: IEC® 60947.7.1Enclosure Rating: IP 20	Material: Aluminum; Thermoplastic
Short Term Withstand Current (low) 1s: 60 kAMax Current Rating, Insulated Power Braid, IEC: 910 AMax Current Rating, Insulated Power Braid, IEC: 930 AMax Current Rating, UL/CSA: 760 APeak Short Circuit Current (lpk): 52 kARated Conditional Short-Circuit Current (lcc): 24.8 kAShort Circuit Current Rating (SCCR): 100 kAMax Working Voltage, IEC (U): 1000, 1500Max Working Voltage, IEC (U): 1000, 1500Line Side Number of Connections: 1Line Side Insulated Power Braid Cross Section: 240 mm²Line Side Insulated Power Braid Cross Section: 240 mm²Load Side Compact Stranded Wire Size: (2) 35 - 240 mm²Load Side Number of Connections: 2Load Side Wire Size: (2) #2 - 500 kcmilDepth: 4.03'Height: 7 1/2'Width: 2.1*Unit Weight: 1.5 lbCertification Details: UL® 1953Complies With: IEC® 60947-7-1Enclosure Rating: IP 20	Line Side Max Conductor Size, UL: 240 mm ²
Max Current Rating, Insulated Power Braid, IEC: 910 AMax Current Rating, NVent ERIFLEX Flexibar, IEC: 930 AMax Current Rating, UL/CSA: 760 APeak Short Circuit Current (lpk): 52 kARated Conditional Short-Circuit Current (lcc): 24.8 kAShort Circuit Current Rating (SCCR): 100 kAMax Working Voltage, IEC (UI): 1000; 1500Max Working Voltage, IEC (UI): 1000; 1500Line Side Number of Connections: 1Line Side Insulated Power Braid Cross Section: 240 mm?Line Side DLO Wire Size: 22 220x1 - 8x32x1Line Side Compact Stranded Wire Size: (2) 35 - 240 mm?Load Side Compact Stranded Wire Size: (2) 35 - 240 mm?Load Side Wire Size: (2) #2 - 500 kcmilDepth: 4.03'Height: 7 1/2'Width: 2.1"Unit Weight: 1.5 lbCertification Details: UL@ 1953Complies With: IEC@ 60947-7-1Enclosure Rating: IP 20	Load Side Max Conductor Size, UL: 500 kcmil
Max Current Rating, nVent ERIFLEX Flexibar, IEC: 930 AMax Current Rating, UL/CSA: 760 APeak Short Circuit Current (lpk): 52 kARated Conditional Short-Circuit Current (lcc): 24.8 kAShort Circuit Current Rating (SCCR): 100 kAMax Working Voltage, IEC (UI): 1000; 1500Max Working Voltage, UL (Vin): 1000Line Side Number of Connections: 1Line Side Insulated Power Braid Cross Section: 240 mm²Line Side Number of Connections: 2Line Side Compact Stranded Wire Size: 2x20x1 - 8x32x1Line Side Compact Stranded Wire Size: (2) 35 - 240 mm²Load Side Compact Stranded Wire Size: (2) 35 - 240 mm²Load Side Wire Size: (2) #2 - 500 kcmilDepth: 4.03"Height: 7 1/2"Width: 2.1"Unit Weight: 1.5 lbCertification Details: UL@ 1953Complies With: IEC@ 60947-7.1Enclosure Rating: IP 20	Short Term Withstand Current (Icw) 1s: 60 kA
Max Current Rating, UL/CSA: 760 APeak Short Circuit Current (lpk): 52 kARated Conditional Short-Circuit Current (lcc): 24.8 kAShort Circuit Current Rating (SCCR): 100 kAMax Working Voltage, IEC (UI): 1000, 1500Max Working Voltage, UL (vin): 1000Line Side Number of Connections: 1Line Side Insulated Power Braid Cross Section: 240 mm²Line Side Number of Connections: 2Line Side Compact Stranded Wire Size: 2x20x1 - 8x32x1Line Side Compact Stranded Wire Size: (2) 35 - 240 mm²Load Side Compact Stranded Wire Size: (2) 35 - 240 mm²Load Side Stranded Wire Size: (2) 35 - 240 mm²Load Side Wire Size: (2) #2 - 500 kcmilDepth: 4.03"Height: 7 1/2"Width: 2.1*Unit Weight: 1.5 lbCertification Details: UL® 1953Complies With: IEC® 60947-7.1Enclosure Rating: IP 20	Max Current Rating, Insulated Power Braid, IEC: 910 A
Peak Short Circuit Current (lpk): 52 kARated Conditional Short-Circuit Current (lcc): 24.8 kAShort Circuit Current Rating (SCCR): 100 kAMax Working Voltage, IEC (U): 1000; 1500Max Working Voltage, UL (Vin): 1000Line Side Number of Connections: 1Line Side Insulated Power Braid Cross Section: 240 mm²Line Side Newt ERIFLEX Flexibar Size; 2x20x1 - 8x32x1Line Side Compact Stranded Wire Size: (2) 35 - 240 mm²Load Side Compact Stranded Wire Size: (2) 35 - 240 mm²Load Side Stranded Wire Size : (2) 35 - 240 mm²Load Side Wire Size: (2) #2 - 500 kcmilDepth: 4.03"Height: 7 1/2"Width: 2.1"Unit Weight: 1.5 lbCertification Details: UL@ 1953Complies With: IEC@ 60947-71Enclosure Rating: IP 20	Max Current Rating, nVent ERIFLEX Flexibar, IEC: 930 A
Rated Conditional Short-Circuit Current (Icc): 24.8 kAShort Circuit Current Rating (SCCR): 100 kAMax Working Voltage, IEC (U): 1000; 1500Max Working Voltage, UL (Vin): 1000Line Side Number of Connections: 1Line Side Insulated Power Braid Cross Section: 240 mm²Line Side nVent ERIFLEX Flexibar Size: 2x20x1 - 8x32x1Line Side DLO Wire Size: #2 - 262 kcmilLoad Side Compact Stranded Wire Size: (2) 35 - 240 mm²Load Side Stranded Wire Size: (2) 35 - 240 mm²Load Side Stranded Wire Size - Ferrule: (2) 35 - 240 mm²Load Side Wire Size: (2) #2 - 500 kcmilDepth: 4.03°Height: 7 1/2*Vidth: 2.1*Unit Weight: 1.5 lbCertification Details: UL® 1953Complies With: IEC® 60947-7-1Enclosure Rating: IP 20	Max Current Rating, UL/CSA: 760 A
Short Circuit Current Rating (SCCR): 100 kAMax Working Voltage, IEC (UI): 1000; 1500Max Working Voltage, UL (Vin): 1000Line Side Number of Connections: 1Line Side Insulated Power Braid Cross Section: 240 mm²Line Side Insulated Power Braid Cross Section: 240 mm²Line Side Number of Connections: 1Line Side Number of Connections: 2Load Side Compact Stranded Wire Size: (2) 35 - 240 mm²Load Side Number of Connections: 2Load Side Stranded Wire Size - Ferrule: (2) 35 - 240 mm²Load Side Wire Size: (2) #2 - 500 kcmilDepth: 4.03°Height: 7 1/2°Width: 2.1°Unit Weight: 1.5 lbCertification Details: UL@ 1953Complies With: IEC@ 60947-7-1Enclosure Rating: IP 20	Peak Short Circuit Current (Ipk): 52 kA
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Max Working Voltage, UL (Vin): 1000Line Side Number of Connections: 1Line Side Insulated Power Braid Cross Section: 240 mm²Line Side nVent ERIFLEX Flexibar Size: 2x20x1 - 8x32x1Line Side DLO Wire Size: #2 - 262 kcmilLoad Side Compact Stranded Wire Size: (2) 35 - 240 mm²Load Side Compact Stranded Wire Size: (2) 35 - 240 mm²Load Side Stranded Wire Size - Ferrule: (2) 35 - 240 mm²Load Side Stranded Wire Size - Ferrule: (2) 35 - 240 mm²Load Side Stranded Wire Size - Ferrule: (2) 35 - 240 mm²Load Side Wire Size: (2) #2 - 500 kcmilDepth: 4.03*Height: 7 1/2*Width: 2.1*Unit Weight: 1.5 lbCertification Details: UL® 1953Complies With: IEC® 60947-7-1Enclosure Rating: IP 20	Short Circuit Current Rating (SCCR): 100 kA
Line Side Number of Connections: 1 Line Side Insulated Power Braid Cross Section: 240 mm ² Line Side nVent ERIFLEX Flexibar Size: 2x20x1 - 8x32x1 Line Side DLO Wire Size: #2 - 262 kcmil Load Side DLO Wire Size: #2 - 262 kcmil Load Side Compact Stranded Wire Size: (2) 35 - 240 mm ² Load Side Number of Connections: 2 Load Side Stranded Wire Size - Ferrule: (2) 35 - 240 mm ² Load Side Stranded Wire Size - Ferrule: (2) 35 - 240 mm ² Load Side Wire Size: (2) #2 - 500 kcmil Depth: 4.03° Height: 7 1/2° Width: 2.1° Unit Weight: 1.5 lb Certification Details: UL@ 1953 Complies With: IEC@ 60947-7-1 Enclosure Rating: IP 20	Max Working Voltage, IEC (Ui): 1000; 1500
Line Side Insulated Power Braid Cross Section: 240 mm ² Line Side nVent ERIFLEX Flexibar Size: 2x20x1 - 8x32x1 Line Side DLO Wire Size: #2 - 262 kcmil Load Side Compact Stranded Wire Size: (2) 35 - 240 mm ² Load Side Number of Connections: 2 Load Side Stranded Wire Size - Ferrule: (2) 35 - 240 mm ² Load Side Wire Size: (2) #2 - 500 kcmil Depth: 4.03° Height: 7 1/2° Height: 7 1/2° Unit Weight: 1.5 lb Certification Details: UL® 1953 Complies With: IEC® 60947-7-1 Enclosure Rating: IP 20	Max Working Voltage, UL (Vin): 1000
Line Side nVent ERIFLEX Flexibar Size: 2x20x1 - 8x32x1 Line Side DLO Wire Size: #2 - 262 kcmil Load Side Compact Stranded Wire Size: (2) 35 - 240 mm² Load Side Number of Connections: 2 Load Side Wire Size - Ferrule: (2) 35 - 240 mm² Load Side Wire Size: (2) #2 - 500 kcmil Depth: 4.03" Height: 7 1/2" Height: 7 1/2" Width: 2.1" Unit Weight: 1.5 lb Certification Details: UL® 1953 Complies With: IEC® 60947-7-1 Enclosure Rating: IP 20	Line Side Number of Connections: 1
Line Side DLO Wire Size: #2 - 262 kcmil Load Side Compact Stranded Wire Size: (2) 35 - 240 mm ² Load Side Number of Connections: 2 Load Side Wire Size - Ferrule: (2) 35 - 240 mm ² Load Side Wire Size: (2) #2 - 500 kcmil Depth: 4.03° Height: 7 1/2° Height: 7 1/2° Unit Weight: 1.5 lb Certification Details: UL® 1953 Complies With: IEC® 60947-7-1 Enclosure Rating: IP 20	Line Side Insulated Power Braid Cross Section: 240 mm ²
Load Side Compact Stranded Wire Size: (2) 35 - 240 mm² Load Side Number of Connections: 2 Load Side Stranded Wire Size - Ferrule: (2) 35 - 240 mm² Load Side Wire Size: (2) #2 - 500 kcmil Depth: 4.03" Height: 7 1/2" Height: 7 1/2" Width: 2.1" Unit Weight: 1.5 lb Certification Details: UL® 1953 Complies With: IEC® 60947-7-1 Enclosure Rating: IP 20	Line Side nVent ERIFLEX Flexibar Size: 2x20x1 - 8x32x1
Load Side Number of Connections: 2Load Side Stranded Wire Size - Ferrule: (2) 35 - 240 mm²Load Side Wire Size: (2) #2 - 500 kcmilDepth: 4.03"Height: 7 1/2"Width: 2.1"Unit Weight: 1.5 lbCertification Details: UL® 1953Complies With: IEC® 60947-7-1Enclosure Rating: IP 20	Line Side DLO Wire Size: #2 - 262 kcmil
Load Side Stranded Wire Size - Ferrule: (2) 35 - 240 mm² Load Side Wire Size: (2) #2 - 500 kcmil Depth: 4.03" Height: 7 1/2" Width: 2.1" Unit Weight: 1.5 lb Certification Details: UL® 1953 Complies With: IEC® 60947-7-1 Enclosure Rating: IP 20	Load Side Compact Stranded Wire Size: (2) 35 - 240 mm²
Load Side Wire Size: (2) #2 - 500 kcmil Depth: 4.03" Height: 7 1/2" Width: 2.1" Unit Weight: 1.5 lb Certification Details: UL® 1953 Complies With: IEC® 60947-7-1 Enclosure Rating: IP 20	Load Side Number of Connections: 2
Depth: 4.03" Height: 7 1/2" Width: 2.1" Unit Weight: 1.5 lb Certification Details: UL® 1953 Complies With: IEC® 60947-7-1 Enclosure Rating: IP 20	Load Side Stranded Wire Size - Ferrule: (2) 35 - 240 mm²
Height: 7 1/2" Width: 2.1" Unit Weight: 1.5 lb Certification Details: UL® 1953 Complies With: IEC® 60947-7-1 Enclosure Rating: IP 20	Load Side Wire Size: (2) #2 - 500 kcmil
Width: 2.1" Unit Weight: 1.5 lb Certification Details: UL® 1953 Complies With: IEC® 60947-7-1 Enclosure Rating: IP 20	Depth: 4.03"
Unit Weight: 1.5 lb Certification Details: UL® 1953 Complies With: IEC® 60947-7-1 Enclosure Rating: IP 20	Height: 7 1/2"
Certification Details: UL® 1953 Complies With: IEC® 60947-7-1 Enclosure Rating: IP 20	Width: 2.1"
Complies With: IEC® 60947-7-1 Enclosure Rating: IP 20	Unit Weight: 1.5 lb
Enclosure Rating: IP 20	Certification Details: UL® 1953
	Complies With: IEC® 60947-7-1
Flammability Rating: UL® 94V-0	Enclosure Rating: IP 20
	Flammability Rating: UL® 94V-0

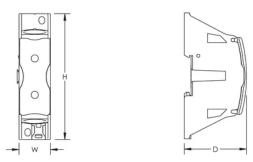
ADDITIONAL PRODUCT DETAILS

SBF250 is UL® 1953 Listed when used with SB250SPCR. Max Working Voltage for UL 1953 applications is 1250 VAC/DC.

Blue protection cover is less than 7% of the overall product weight.

Design Guideline for Distribution Blocks, Power Blocks and Power Terminals											
Derating according to Ambient* T	emperature	(°F) to mai	ntain workin	g temperati	ure of 185°F	;					
Ambient Temperature (°F)	86°	95°	104°	113°	122°	131°	140°	149°	158°	167°	
Derating Coefficient (d)	1	1	1	0.94	0.88	0.82	0.75	0.67	0.58	0.47	

DIAGRAMS



WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at www.nvent.com and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

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nVent reserves the right to change specifications without notice.