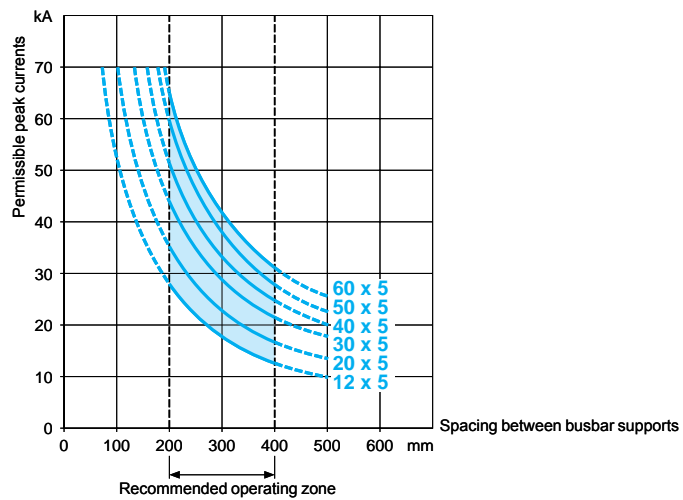


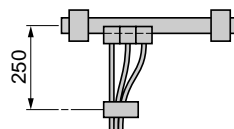
Busbar system characteristics

Copper busbars	Dimensions	mm	12 x 5	20 x 5	30 x 5	40 x 5	50 x 5	60 x 5
Permissible current in the busbars (1)	Conforming to DIN 43671 at ambient temperature 35 °C	A	200	270	380	480	580	690
	(1) Coefficient K to be applied according to the ambient temperature	°C	20	25	35	45	55	65
		K	1.14	1.1	1	0.9	0.7	0.6
Maximum let-through energy: I ² t		A ² s	70.10 ⁶	180.10 ⁶	370.10 ⁶	560.10 ⁶	780.10 ⁶	1000.10 ⁶

Permissible peak current in the busbars depending on the distance between supports (2)



(2) To withstand the peak currents indicated, the cables must be securely clamped within a maximum distance of 250 mm from the busbar centres.



Screw clamp connector characteristics

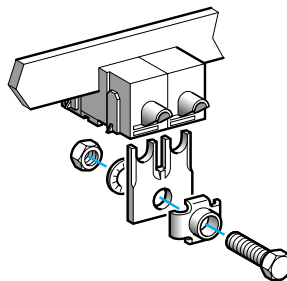
Rated insulation voltage	~ 750 V conforming to NF C 20-040 and VDE 0-110
Vibration resistance	10...55 Hz, amplitude 1 mm conforming to NF C 63-065
Flame resistance	960 °C conforming to NF C 20-455 VO for all plastic components conforming to UL 94
Electric shock protection	Insulated housing to protect against accidental contact with live parts, markable with 5 AB1-R or G markers
3-phase short-circuit current withstand	1 terminal: 25 kA (peak) 2 associated terminals: 50 kA (peak)

Characteristics of single-pole splitter blocks AK2 and AB3

Rated insulation voltage (Ui)	~ 750 V conforming to NF C 20-040 ~ 600 V conforming to CSA
Vibration resistance	10...55 Hz, amplitude 1 mm, conforming to NF C 63-065
Flame resistance	VO conforming to UL 94
Enclosure material and colour	Polyamide 6.6, grey RAL 7032
Mounting	AB3-RV162: clip-on mounting on \perp , \perp , \perp rails and on Telequick pre-slotted mounting plates.
Upstream connection	
AK2-BA162U	On 5 or 6 mm thick copper bar by means of screw clamp connector. Tightening torque: 10 mN
AB3-RV162U	For flexible copper cable with cable end, from 4 to 25 mm ² For solid cable from 6 to 35 mm ²
Downstream connection	6 screw connectors, size 4 conforming to NF C 63-062 Connector capacity (conforming to § 8.2.4.3 of standard IEC 947.1): - solid conductor: 1 to 6 mm ² - flexible conductor with cable end: 0.34 to 1 mm ² (1 or 2 wires) – 1.5 to 2.5 mm ² (1 wire) Rated current: $I_e = 25 \text{ A} \times 6$ Screw heads protected by removable markable cover
Marking	By 6 AB1-R or AB1-G clip-in markers upstream and/or 4 AB1-R or AB1-G clip-in markers for each tap-off outlet.

Assembly recommendations

Screw clamp connector AK2-BA01	On copper bar only Connection of copper cables fitted with cable ends.
Connector plate AK2-SP	Chamfered face in contact with the clamp of the screw clamp connector.



Terminal clamp AK2-SE
with screws, washers and nuts.

Terminal clamp AK2-SE	For two cables of similar c.s.a.	C.s.a. mm ²		Type of clamp required	
		min.	max.		
		6	16		AK2-SE20
		16	35		AK2-SE25
		16	50		AK2-SE30
Cable c.s.a. adapter AK2-SC01 for use under terminal clamp	For two cables of substantially different c.s.a.	C.s.a. mm ² with adapter			
		min.	max.		
		1...4	6...16		
		1...6	16...35		
		1...10	16...50		
1...16	25...95				

