

PRODUCT-DETAILS

AFS116-30-12-34 AFS116-30-12-34



General Information	
Extended Product Type	AFS116-30-12-34
Product ID	1SFL427081R3412
EAN	7320500540688
Catalog Description	AFS116-30-12-34
Long Description	The AFS116-30-12-34 is a 3 pole - 690 V IEC or 600 V UL contactor with pre-mounted 1 left (1 N.O + 1 N.C.) and fixed 1 right (1 N.C.) side mounted auxiliary contact blocks with double clamp connections, controlling motors up to 55 kW / 400 V AC (AC-3) or 75 hp / 480 V UL and switching power circuits up to 160 A (AC-1) or 160 A UL general use. AFS contactors can be easily integrated in machine manufacturer's systems complying with main standards EN ISO 13849 and EN 62061 - guaranteeing the safe use of your machinery and equipment. An easily identifiable yellow low energy auxiliary contact block ensures the status feedback circuits required in machine safety applications. Thanks to the AF technology, the contactor has a wide control voltage range (250-500 V 50/60 Hz and DC), managing large control voltage variations, reducing panel energy consumptions and ensuring distinct operations in unstable networks. Furthermore, surge protection is built-in, offering a compact solution. AF contactors have a block type design, can be easily extended with add-on auxiliary contact blocks and an additional wide range of accessories.

Ordering

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Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Popular Downloads	
Data Sheet, Technical Information	1SBC100214C0202
Instructions and Manuals	1SFC100003M0201
CAD Dimensional Drawing	2CDC001079B0201

Dimensions	
Product Net Width	90 mm
Product Net Depth / Length	126 mm
Product Net Height	150 mm
Product Net Weight	1.55 kg

Technical	
Number of Main Contacts NO	3
Number of Main Contacts NC	0
Number of Auxiliary Contacts NO	1
Number of Auxiliary Contacts NC	2
Number of Poles	ЗР
Rated Operational Voltage	Main Circuit 690 V
Rated Frequency (f)	Main Circuit 50 / 60 Hz
Conventional Free-air Thermal Current (I _{th})	acc. to IEC 60947-4-1, Open Contactors Θ = 40 °C 160 A
Rated Operational	(690 V) 40 °C 160 A
Current AC-1 (l _e)	(690 V) 60 °C 145 A
	(690 V) 70 °C 130 A
Rated Operational	(415 V) 60 °C 116 A
Current AC-3 (I _e)	(440 V) 60 °C 116 A (500 V) 60 °C 110 A
	(690 V) 60 °C 65 A
	(380 / 400 V) 60 °C 116 A
	(220 / 230 / 240 V) 60 °C 116 A
Rated Operational	(415 V) 60 °C 116 A
Current AC-3e (I _e)	(440 V) 60 °C 116 A
	(500 V) 60 °C 110 A
	(690 V) 60 °C 65 / (380 / 400 V) 60 °C 116 /
	(220 / 230 / 240 V) 60 °C 116 /
Rated Operational	(110 V) 2 Poles in Series, 40 °C 145 A
Current DC-1 (l _e)	(220 V) 3 Poles in Series, 40 °C 145 A
Rated Operational Current DC-3 (I _e)	(110 V) 2 Poles in Series, 40 °C 145 / (220 V) 3 Poles in Series, 40 °C 145 /
Rated Operational Current DC-5 (I _e)	(110 V) 2 Poles in Series, 40 °C 145 A (220 V) 3 Poles in Series, 40 °C 145 A
Rated Operational Power AC-3 (P _e)	(415 V) 55 kW (440 V) 75 kW
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(600 / 00 / 95 kw (200 / 200 / 200 / 200 / 200 / 30 kw (200 / 200 / 200 / 200 / 30 kw (200 / 200 / 200 / 200 / 30 kw (200 / 200 / 200 / 200 / 30 kw (200 / 200 / 200 / 200 / 30 kw (200 / 200 / 200 / 200 / 30 kw (200 / 200 / 200 / 200 / 30 kw (200 / 200 / 200 / 200 / 30 kw (200 / 200 / 200 / 200 / 30 kw Rated Breaking Capacity 8 k k AC-3e AC-3 Rated Making Capacity 10 x k AC-3e AC-3 90 / 30 kw Short-Circuit Brotective 90 / 30 kw AC-3 90 / 30 kw Boto-Circuit Brotective 90 / 30 kw Short-Circuit Brotective 90 / 30 kw AC-3 90 / 30 kw Boto-Circuit Brotective 90 / 30 kw Voltage (0,w) at 40 * C Ambient Temp, in Free Air, from a Cold State 10 s 926 A At 40 * C Ambient Temp, in Free Air, from a Cold State 10 s 926 A Maximum Breaking Cos phit-0.35 for it = 100 A) at 400 / 200 A Capacity cos phit-0.35 for it = 100 A) at 400 / 200 A At 40 * C Ambient Temp, in Free Air, from a Cold State 10 s 926 A Maximum Breaking Cos phit-0.35 for it = 100 A) at 400 / 200 A </th <th>(1880 / 400) 55 kW AC-2e (Pe) (15) 75 kW AC-3e (Pe) (15) 75 kW Rated Deraking Capacity 8 k te AC-3 AC-3e (Pa) 8 k te AC-3 Rated Breaking Capacity 8 k te AC-3 AC-3 8 k te AC-3 Rated Breaking Capacity 8 k te AC-3 AC-3 9 k te AC-3 Rated Breaking Capacity 10 x te AC-3 AC-3 9 k te AC-3 Rated Making Capacity 10 x te AC-3 AC-3 9 k te AC-3 Short-Circuit Protective gG Type Fuses 250 A Devices gG Type Fuses 250 A Vibitostand Current Low at 40 °C Ambient Temp, in Free Air, from a Cold Stata 15 min 150 A Acta do Cambient Temp, in Free Air, from a Cold Stata 15 min 150 A at 40 °C Ambient Temp, in Free Air, from a Cold Stata 15 min 150 A Maximum Breaking cos phil-0.45 (cos phil-0.36 (rol i= > 100 A) at 480 V 2000 A Capacity cos phil-0.45 (cos phil-0.36 (cos p</th> <th></th> <th>(500 V) 75 kW</th>	(1880 / 400) 55 kW AC-2e (Pe) (15) 75 kW AC-3e (Pe) (15) 75 kW Rated Deraking Capacity 8 k te AC-3 AC-3e (Pa) 8 k te AC-3 Rated Breaking Capacity 8 k te AC-3 AC-3 8 k te AC-3 Rated Breaking Capacity 8 k te AC-3 AC-3 9 k te AC-3 Rated Breaking Capacity 10 x te AC-3 AC-3 9 k te AC-3 Rated Making Capacity 10 x te AC-3 AC-3 9 k te AC-3 Short-Circuit Protective gG Type Fuses 250 A Devices gG Type Fuses 250 A Vibitostand Current Low at 40 °C Ambient Temp, in Free Air, from a Cold Stata 15 min 150 A Acta do Cambient Temp, in Free Air, from a Cold Stata 15 min 150 A at 40 °C Ambient Temp, in Free Air, from a Cold Stata 15 min 150 A Maximum Breaking cos phil-0.45 (cos phil-0.36 (rol i= > 100 A) at 480 V 2000 A Capacity cos phil-0.45 (cos phil-0.36 (cos p		(500 V) 75 kW	
Rated Operational Power AC-3e (Pe) AC-3e (Pe) (B00) 75 kW (B00) 75	Reted Operational Power AC-3e (Pe) AC-3E (PE			
AC-3e (Pe) (440 V) 75 kw (600 V) 55 kw (780	AC-3e (Pe) (40.0) 75 kw (500 V) 55 kw (500 V			
(500 v) 75 kw (680 v) 55 kw (280 / 400 v) 55 kw (280 / 400 v) 55 kw (220 / 230 / 240 v) 36 kw (220 / 230 v) 36 kw (220 / 240 v) 36	Cool VT 5 NW (EGO V) 5 S VW (EGO V) 5 S VW (EGO V) 5 S VW (EGO V) 7 S VW (EGO V)	-		
(20 / 20 / 20 / 20 / 20 / 20 / 20 / 20 /	(1880 / 400 V) 55 kW Rated Breaking Capacity 8 x le AC-3 AC-3 8.5 x le AC-3e Rated Breaking Capacity 8.5 x le AC-3e AC-3 10 x le AC-3 Rated Making Capacity 10 x le AC-3e AC-3e gG Type Fuses 250 A Devices gG Type Fuses 250 A Devices gG Type Fuses 250 A Rated Making Capacity 12 x le AC-3e Vitage (L _m) at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 928 A Withstand Current Low at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 928 A Votage (L _m) at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 928 A Maximum Braking ccs phil-0.45 (cs phil-0.35 for le > 100 A) at 680 V 1000 A Capacity ccs phil-0.45 (cs phil-0.35 for le > 100 A) at 680 V 1000 A Rated Insulation Votage acc. to IEC 60947-41 and VBC OII (Gr. C) 680 V Withstand Voltage (U _{mp}) y acc. to IEC 60947-41 and VBC OII (Gr. C) 680 V Maximum Electrical (AC-1) 300 cycles per hour (AC-2) AC + 115 Cycles per hour Witching Frequency (AC-1) 300 cycles per hour Smillon Maximum Electrical 300 cycles per hour Smillon <t< td=""><td></td><td>(500 V) 75 kW</td></t<>		(500 V) 75 kW	
(220 / 230 / 240 V) 30 kW Atc3 8 x le AC-3 Rated Breaking Capacity 8.5 x le AC-3 AC-3 8.5 x le AC-3 Rated Making Capacity 10 x le AC-3 AC-3 9 Rated Making Capacity 10 x le AC-3 AC-3 9 Short-Circuit Protective gG Type Fuses 250 A Devices 3 Short-Circuit Protective gG Type Fuses 250 A Voltage (I _{G0}) at 40 °C Ambient Temp, in Free Air, from a Cold State 10 \$ 928 A At 40 °C Ambient Temp, in Free Air, from a Cold State 10 \$ 928 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 \$ 928 A Maximum Breaking cos phil-0.45 (cos phil-0.35 for le > 100 A) at 400 V 2000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 \$ 1160 A Capacity cos phil-0.45 (cos phil-0.35 for le > 100 A) at 40 V 2000 A acc. to ILC G0947-4-1 and VDE 0110 (Gr. C) 690 V (U) acc. to ILC C 60947-4-1 and VDE 0110 (Gr. C) 690 V acc. to ILC / AC-40 J 150 cycles per hour Switching Frequency (AC-1) 300 cycles per hour (AC-1) 300 cycles per hour Switching Frequency (AC-2) ASD cycles per hour So Ha 250 . 500 V Coil Operating Frequency (AC-2 / AC-4) ISD cycles per hour	(220 / 230 / 240 V) 30 kW AC:3 8 x le AC-3 AC:3 8.5 x le AC-3 Rated Breaking Capacity 8.5 x le AC-3 AC:3 10 x le AC-3 Rated Making Capacity 10 x le AC-3 AC:3 36 Short Circuit Protective 96 Type Fuses 250 A Devices 96 Type Fuses 250 A Rated Making Capacity 12 x le AC-3a Short Circuit Protective 96 Type Fuses 250 A Devices 96 Type Fuses 250 A Rated Bhort-time at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 928 A Voltage (l _{cw}) at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 536 A Maximum Breaking cos phi-0.45 (cos phi-0.35 for le > 100 A) at 440 V 2000 A Capacity cos phi-0.45 (cos phi-0.15 for le > 100 A) at 440 V 2000 A Rated Impulse Main Circuit 8 kV Withstand Outge (U _{mp}) Acc:1 Job cycles per hour Switching Frequency (Ac-1) 300 cycles per hour Switching Frequency (Ac-2) 300 cycles per hour Switching Frequency (Ac-2) 300 cycles per hour Switching Frequency (Ac-2) 300 cycles			
AC:3 Rated Breaking Capacity AC:3 Rated Making Capacity AC:3 Rated Making Capacity AC:3 Rated Making Capacity AC:3 Rated Making Capacity AC:3 Short-Circuit Protective gG Type Fuses 250 A Devices Short-Circuit Protective gG Type Fuses 250 A Devices Short-Circuit Protective gG Type Fuses 250 A Devices At 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 928 A withstand Current Low at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 928 A withstand Current Low dat 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 379 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 379 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 379 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 516 A Maximum Breaking Cos phile 0.45 (cos phile 0.35 for 1 = 100 A) at 400 V2000 A Capacity Cos phile 0.45 (cos phile 0.35 for 1 = 100 A) at 400 V2000 A Capacity Maximum Blectrical Maximum Electrical Maximum Electrical Maximum Electrical Maximum Mechanical 300 cycles per hour Switching Frequency Cold Operating Frequency Field E 24 S 0.500 V Cold Consumption Average Pull-In Value 80 Hz 280 VA Holding at Max, Rated Operating Conditions per Pole 6 W Devices Connecting Capacity Field E 24 S 0.5, 70, 75, 25 mm ² Auxiliary Circuit Field E 24 S 0.7, 70, 75, 25 mm ² Connecting Capacity Field E 24 S 0.7, 70, 75, 25 mm ² Connecting Capacity Field E 24 S 0.7, 70, 75, 25 mm ² Connecting Capacity Field E 24 S 0.7, 70, 75, 25 mm ² Conn	AC-3 Rated Breaking Capacity AC-3 Rated Making Capacity AC-4 Rated Inpulse Making Capacity AC-4 Rated Inpulse Main Circuit 8 kV Withstand Voltage (Uimp AC-1) AC-2 AC-4 AC-4 AC-4 AC-4 AC-4 AC-4 AC-4 AC-4			
AC-3e Rated Making Capacity AC-3 Rated Making Capacity AC-3 Rated Making Capacity AC-3e Short-Circuit Protective Devices Rated Mort-time at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 928 A Withstand Current Low at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 928 A Withstand Current Low at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 928 A Maximum Breaking Capacity Cos phi=0.45 (cos phi=0.35 for l = > 100 A) at 400 V2000 A Rated Insulation Voltage (Ling) Maximum Breaking Capacity Maximum Electrical Switching Frequency (AC-1) 300 cycles per hour Switching Frequency Coil Operating Limits (AC-1) 300 cycles per hour Switching Frequency Coil Operating Limits (acc. to IEC 60947-4-1) 0.85 x Uc Min 11 x UC Max. (at 9 ± 70 °C) Rated Control Circuit S00 V200 P Coil Operating Limits Conce ting Pull-in Values 50 Hz 250 500 V Voltage (U-2) Coil Operating Limits Conce ting Pull-in Values 50 Hz 250 500 V DC Operating Zimits Conce ting Corcus 50 Hz 250 500 V DC Operating Zimits Conce Control Circuit Voltage 60 Hz 250 500 V DC Operating Zimits Conce Control Circuit Voltage 60 Hz 250 500 V DC Operating Zimits Conce Control Circuit Voltage 60 Hz 250 400 V Albiding at Max. Rated Control Circuit Voltage 50 Hz 250 VA Holding at Max. Rated Control Circuit Voltage 50 Hz 250 VA Pull-in at Max. Rated Control Circuit Voltage 60 Hz 250 500 V DC Operating Zimits Connecting Capacity Histible with Insulated Freude 2X II	AC3a Rated Making Capacity 10 × 16 AC3 AC3 Rated Making Capacity 21 × 16 AC3a AC3e Short-Circuit Protective g G Type Fuses 250 A Devices at 40 °C Ambient Temp, in Free Air, from a Cold State 10 S 928 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 S 928 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 S 928 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 S 928 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 S 928 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 S 928 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 S 928 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 S 936 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 S 936 A Acapacity cos philo 45 (cos philo 35 for le > 100 A) at 400 V2000 A Caspacity cos philo 45 (cos philo 35 for le > 100 A) at 400 V2000 A Caspacity cos philo 45 (cos philo 35 for le > 100 A) at 400 V2000 A Caspacity cos philo 45 (cos philo 35 for le > 100 A) at 400 V2000 A Caspacity cos philo 45 (cos philo 35 for le > 100 A) at 400 V2000 A Rated Inpulse Main Circuit 8 kV Withstand Voltage (Ump) Maximum Electrical (AC-1) 300 cycles per hour Switching Frequency (AC-2) AC4 J 150 cycles per hour Switching Frequency (AC-2) C DC Operation 250 · 250 V Coll Operating Limits (acc, to IEC 60947-4-1) 0.85 × Uc Min 11 × Uc Max. (at 6 ± 70 °C) Rated Control Circuit Voltage C C 250 V Pull-in at Max. Rated Control Circuit Voltage D 22 50 VA Holding at Max. Rated Control Circuit Voltage D 22 50 VA Pull-in at Max. Rated Control Circuit Voltage D 22 50 VA Pull-in at Max. Rated Control Circuit Voltage D 22 50 VA Pull-in at Max. Rated Control Circuit Voltage D 22 30 V Pull-in at Max. Rated Control Circuit Voltage D 22 30 V		8 x le AC-3	
AC-3 Rated Making Capacity 12 × le AC-3e AC-3e Short-Circuit Protective gG Type Fuses 250 A Devices at 40 °C Ambient Temp, in Free Air, from a Cold State 10 5 928 A withstand Current Low at 40 °C Ambient Temp, in Free Air, from a Cold State 10 5 928 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 3 536 A Maximum Breaking Cos phic-0.45 (cos phic-0.35 for le > 100 A) at 440 V2000 A Rated insulation Voltage acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V (U) acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V acc. to IU/CSA 600 V (U) Acces phic-0.35 for le > 100 A) at 450 V1000 A Rated insulation Voltage Main Circuit 8 kV Withstand Voltage (U _{imp}) Maximum Electrical (AC-1) 300 cycles per hour Switching Frequency (AC-2 / AC-4) 100 cycles per hour Switchin	AC-3 Rated Making Capacity 12 x le AC-3e AC-3e Short-Circuit Protective 03 G Type Fuses 250 A Devices at 40 °C Ambient Temp, in Free Air, from a Cold State 10 5 928 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 5 928 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 379 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 379 A at 40 °C Ambient Temp, in Free Air, from a Cold State 3 556 A Maximum Breaking Cos philo 45 (cos philo 35 for le > 100 A) at 440 Y 2000 A Capacity Cos philo 45 (cos philo 35 for le > 100 A) at 440 Y 2000 A Capacity Cos philo 45 (cos philo 35 for le > 100 A) at 440 Y 2000 A Rated Insulation Voltage (Ling) Maximum Breaking Cos philo 45 (cos philo 35 for le > 100 A) at 440 Y 2000 A Rated Insulation Voltage Main Y 2000 A Rated Insulation Voltage (Ling) Maximum Electrical (AC-1) 300 cycles per hour Switching Frequency (AC-2) AC-4) 1500 cycles per hour Switching Frequency (AC-2) AC-4) 1500 cycles per hour Switching Frequency (AC-2) 300 cycles per hour Switching Frequency (AC-3) 300 cycles per hour Switching Frequency (AC-2) 400 cycles per hour Switching Frequency (AC-2) 400 cycles per hour Switching Frequency (AC-2) 500 cycles per hour Switching Frequency (AC-2) 500 cycles per hour Switching Frequency (AC-2) 200 cycles per hour Switching Frequency (AC-2) 200 cycles per hour Switching Frequency (AC-2) 500 cycles 500 cycles		8.5 x le AC-3e	
AC-2a Short-Circuit Protective gG Type Fuses 250 A Devices at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 928 A Vithstand Current Low at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 928 A at 40 °C Ambient Temp, in Free Air, from a Cold State 11 50 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 9828 A At 40 °C Ambient Temp, in Free Air, from a Cold State 15 9828 A Maximum Breaking Cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V2000 A At 40 °C Ambient Temp, in Free Air, from a Cold State 15 9828 A Maximum Breaking Cos phi=0.45 (cos phi=0.35 for le > 100 A) at 490 V2000 A Rated Insulation Voltage (Low acc. to UL/CSA 600 V Rated Insulation Voltage (Ump) Maximum Electrical (AC-1) 300 cycles per hour Switching Frequency (AC-2 / AC-4) 150 cycles per hour Mechanical Durability S million Maximum Mechanical 300 cycles per hour Switching Frequency (AC-2 / AC-4) 150 cycles per hour Switching Frequency (AC-2 / AC-4) 10 cycles per hour Switching Freq	AC-3e Short-Circuit Protective Short-Circuit Protective Short-Circuit Protective Rated Short-time at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 928 At 40 °C Ambient Temp, in Free Air, from a Cold State 10 S 928 At 40 °C Ambient Temp, in Free Air, from a Cold State 10 S 928 At 40 °C Ambient Temp, in Free Air, from a Cold State 10 S 928 At 40 °C Ambient Temp, in Free Air, from a Cold State 10 S 928 At 40 °C Ambient Temp, in Free Air, from a Cold State 10 S 928 At 40 °C Ambient Temp, in Free Air, from a Cold State 10 S 928 At 40 °C Ambient Temp, in Free Air, from a Cold State 10 S 928 At 40 °C Ambient Temp, in Free Air, from a Cold Circuit Voltage 50 Hz 260 VA A Holding		10 x le AC-3	
Devices Rated Bhort-time Rated Short-time Rated Short-tim	Devices Rated Short-time Rated Short-tim		12 x le AC-3e	
Withstand Current Low at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 160 A Voltage (I _{cw}) at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 379 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 379 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 379 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 379 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 379 A Capacity cos phi=0.35 for le >100 A) at 690 V1000 A Rated Insulation Voltage acc. to IEC 60947-41 and VDE 0110 (Gr. C) 690 V Rated Inpulse Main Circuit 8 kV Withstand Voltage (U _{imp}) Amin Circuit 8 kV Maximum Electrical (AC-1) 300 cycles per hour Switching Frequency (AC-2) 500 cycles per hour Withstand Voltage (U _{imp}) 5 million Maximum Mechanical 300 cycles per hour Switching Frequency (Ac-2 + 10.0.85 × Uc Min1.1 × Uc Max. (at 0 + 70 °C) Coil Operating Limits (acc. to IEC 60947-4-1) 0.85 × Uc Min1.1 × Uc Max. (at 0 + 250500 V Voltage (U _c) DC Operation 250500 V Coil Consumption Average Pull-In Value 50 H2260 V.A Aberd Control Circuit Voltage 50 H2260 V.A Holding at Max. Rated Control Circuit Voltage 50 H226	Withstand Current Low at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 150 A Voltage (I _{cw}) at 40 °C Ambient Temp, in Free Air, from a Cold State 1 is 1160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 so 1160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 so 536 A Maximum Breaking cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V2000 A Capacity cos phi=0.45 (cos phi=0.35 for le > 100 A) at 400 V2000 A Rated Insulation Voltage acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V (Ui) acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V Rated Insulation Voltage (U _{imp}) Main Circuit 8 kV Maximum Electrical (AC-1) 300 cycles per hour Withstand Curcuit S kV Similion Maximum Mechanical 300 cycles per hour Switching Frequency Similion Coil Operating Limits (acc. to IEC 60947-4-1) 0.85 x Uc Min 1.1 x Uc Max. (at 0 s 70 °C) Rated Control Circuit So Hz 250 500 V Voltage (U _c) DC Operation 250 500 V Coil Operating ZD Coll SO Hz 250 500 V Voltage (U _c) DC Operation 250 500 V Coil Consumption Average Pull-in Value 60 Hz 250 500 V Voltage (U _c) DC Operation		gG Type Fuses 250 A	
Voltage (I _{cw}) at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 379 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 stil 160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 536 A Maximum Breaking cos phi=0.45 (cos phi=0.35 for le > 100 A) at 430 V 2000 A Capacity cos phi=0.45 (cos phi=0.35 for le > 100 A) at 630 V 1000 A Rated Insulation Voltage acc. to IEC 60947-4.1 and VDE 0110 (Gr. C) 660 V (U) acc. to UL/CSA 600 V Rated Insulation Voltage (AC-1) 300 cycles per hour Withstand Voltage (U _{Imp}) Main Circuit 8 kV Withstand Voltage (U _{Imp}) (AC-2) AC-4) 150 cycles per hour Maximum Blectrical (AC-2) AC-4) 150 cycles per hour Kechanical Durability S million Maximum Mechanical 300 cycles per hour Switching Frequency (AC-2) AC-4) 150 cycles per hour Coli Operating Limits (acc. to IEC 60947-4-1) 0.85 x Uc Min 11 x Uc Max. (at 6 s 70 °C) Rated Control Circuit S0 H 250 500 V Coli Operating Limits (acc. to IEC 60947-4-1) 0.85 x Uc Min 11 x Uc Max. (at 6 s 70 °C) Rated Control Circuit S0 H 250 500 V Coli Operating Limits (acc. to IEC 60947-4-1) 0.85 x Uc Min 11 x Uc Max. (at 6 s 70 °C) <td>Voltage (I_{cw}) at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 379 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 106 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 106 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 106 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 106 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 106 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 106 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 106 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 106 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 106 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 106 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 106 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 106 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 106 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 106 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 100 A) at 600 V1000 A cos philo.45 (cos p</td> <td></td> <td></td>	Voltage (I _{cw}) at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 379 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 106 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 106 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 106 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 106 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 106 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 106 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 106 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 106 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 106 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 106 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 106 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 106 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 106 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 106 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 100 A) at 600 V1000 A cos philo.45 (cos p			
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Main Circuit Rigid Cu-Cable 1 x 10 95 mm² Connecting Capacity Flexible with Ferrule 2x 0.75 2.5 mm² Auxiliary Circuit Flexible with Insulated Ferrule 2x 0.75 2.5 mm² Flexible with Insulated Ferrule 2x 0.75 2.5 mm² Solid 2 x 1 4 mm² Solid 2 x 1 4 mm² Stranded 2 x 1 4 mm² Connecting Capacity Flexible 1 x 10 70 mm²	Main Circuit Rigid Cu-Cable 1 x 10 95 mm² Connecting Capacity Flexible with Ferrule 2x 0.75 2.5 mm² Auxiliary Circuit Flexible with Insulated Ferrule 2x 0.75 2.5 mm² Solid 2 x 1 4 mm² Solid 2 x 1 4 mm² Connecting Capacity Flexible 1x 10 70 mm² Connecting Capacity Flexible 1 x 10 70 mm² Rigid Cu-Cable 2 x 10 95 mm² Rigid Cu-Cable 2 x 10 95 mm² Degree of Protection acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20	Operate Time		
Auxiliary Circuit Flexible with Insulated Ferrule 2x 0.75 2.5 mm² Flexible 2x0.75 2.5 mm² Solid 2 x 1 4 mm² Stranded 2 x 1 4 mm² Connecting Capacity	Auxiliary Circuit Flexible with Insulated Ferrule 2x 0.75 2.5 mm² Flexible 2x0.75 2.5 mm² Flexible 2x0.75 2.5 mm² Solid 2 x 1 4 mm² Solid 2 x 1 4 mm² Connecting Capacity Flexible 1 x 10 70 mm² Rigid Cu-Cable 2 x 10 95 mm² Rigid Cu-Cable 2 x 10 95 mm² Degree of Protection acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20	Main Circuit	Rigid Cu-Cable 1 x 10 95 mm²	
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Stranded 2 x 1 4 mm² Connecting Capacity Flexible 1 x 10 70 mm²	Stranded 2 x 1 4 mm² Connecting Capacity Flexible 1 x 10 70 mm² Rigid Cu-Cable 2 x 10 95 mm² Degree of Protection acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20		Flexible 2x0.75 2.5 mm ²	
	Rigid Cu-Cable 2 x 10 95 mm² Degree of Protection acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20			
		Connecting Capacity		
		Degree of Protection		

Recommended Screw Driver	Main Circuit M6 Control Circuit M3.5 Control Circuit 5.5 Control Circuit Pozidriv 2
Tightening Torque	Cable Lug 9 N·m Main Circuit 8 N·m
Terminal Type	Double Clamp
Product Name	Block Contactor

Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 600 V
General Use Rating UL/CSA	(600 V AC) 160 A
Horsepower Rating UL/CSA	(200 208 V AC) Three Phase 30 hp (220 240 V AC) Three Phase 40 hp (440 480 V AC) Three Phase 75 hp (550 600 V AC) Three Phase 100 hp
Full Load Amps Motor Use	(200 208 V AC) Three Phase 92 A (220 240 V AC) Three Phase 104 A (440 480 V AC) Three Phase 96 A (550 600 V AC) Three Phase 99 A

Environmental	
Ambient Air Temperature	Close to Contactor Fitted with Thermal O/L Relay (0.85 1.1 Uc) -25 50 $^\circ$ C
	Close to Contactor without Thermal O/L Relay (0.85 1.1 Uc) -40 70 $^\circ \rm C$ Close to Contactor for Storage -40 70 $^\circ \rm C$
Maximum Operating Altitude Permissible	Without Derating 3000 m

Material Compliance	
Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2021-006202
RoHS Information	2CMT2021-006277
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	2CMT2023-006525
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

ABB EcoSolutions		
ABB EcoSolutions		Yes
ABB Site Meeting Group Waste To Landfill Target		andfill, where there is no alternative n available within 100km of a facility
End Of Life Disassembling Instructions		1SFC100112M0001
Environmental Product Declaration - EPD		1SFC100092D0201
Improved Energy Product Efficiency - Product requires less energy to operative operati		
	2025 (01 (07	

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2025/01/07 Subject to change without notice

Recyclability Rate of the	Design for Closing Resource Loops - Standard EN45555 - 87.8 %	
Product acc. to EN45555		
Sustainable Material	Recycled Metal - 37 %	
Content in Product (wt.		
%)		

Certificates and Declarations	
CB Certificate	SEMKO_SE-70479M1
CQC Certificate	CQC2013010304604055
Declaration of Conformity - CCC	2020980304001304
Declaration of Conformity - CE	2CMT2018-005695
Declaration of Conformity - UKCA	2CMT2020-006125
EAC Certificate	1SFC101360D1101
SUVA Certificate	2CMT2019-005856
UL Certificate	20120925-E36588

Container Information	
Package Level 1 Units	box 1 piece
Package Level 1 Width	207 mm
Package Level 1 Depth / Length	216 mm
Package Level 1 Height	150 mm
Package Level 1 Gross Weight	1.75 kg
Package Level 1 EAN	7320500540688

Object Classification Code	Q
ETIM 7	EC000066 - Power contactor, AC switching
ETIM 8	EC000066 - Power contactor, AC switching
ETIM 9	EC000066 - Power contactor, AC switching
eClass	V11.0 : 27371003
UNSPSC	39121529
IDEA Granular Category Code (IGCC)	4755 >> Contactors
E-Number (Finland)	3708095

Accessories

uantity Unit Of Measure	Type Quantity		Description	Identifier
piece	1	CEL19-10	CEL19-10 Auxiliary Contact Block	1SFN010832R1010
piece	1	CEL19-01	CEL19-01 Auxiliary Contact Block	1SFN010832R1001
piece	1	CAL19-11	CAL19-11 Auxiliary Contact Block	1SFN010820R1011
piece	1	LD146-30	LD146-30 Connection Module	1SFN074208R1000
piece	1	LT140-30L	LT140-30L Terminal Shroud	1SFN124203R1000
piece	1	LW140	LW140 Terminal Enlargement	1SFN074207R1000
piece	1	LX140	LX140 Terminal Extension	1SFN074210R1000
piece	1	LY140	LY140 Connecting Strip	1SFN074203R1000
piece	1	LT205-30C	LT205-30C Terminal Shroud	1SFN124801R1000
piece	1	LT205-30L	LT205-30L Terminal Shroud	1SFN124803R1000
piece	1	LT205-30Y	LT205-30Y Terminal Shroud	1SFN124804R1000
piece	1	LW205	LW205 Terminal Enlargement	1SFN074807R1000
piece	1	LX205	LX205 Terminal Extension	1SFN074810R1000
piece	1	LY185	LY185 Connecting Strip	1SFN074703R1000
piece	1	LY300	LY300 Connecting Strip	1SFN075103R1000
piece	1	LX370	LX370 Terminal Extension	1SFN075410R1000
piece	1	LT370-30D	LT370-30D Terminal Shroud	1SFN125406R1000
piece	1	LT370-30Y	LT370-30Y Terminal Shroud	1SFN125404R1000
piece	1	LT370-30L	LT370-30L Terminal Shroud	1SFN125403R1000
piece	1	LT370-30C	LT370-30C Terminal Shroud	1SFN125401R1000

Categories

 $\mathsf{Low}\ \mathsf{Voltage}\ \mathsf{Products}\ \mathsf{and}\ \mathsf{Systems}\ \to\ \mathsf{Control}\ \mathsf{Products}\ \to\ \mathsf{Contactors}\ \to\ \mathsf{Block}\ \mathsf{Contactors}\ \to\ \mathsf{AFS}\ \mathsf{Contactors}\ \to\ \mathsf{AFS116}$

