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PRODUCT-DETAILS

## AF1350-30-22-70

## AF1350-30-22-70 100-250V 50/60Hz / 100-250V DC Contactor



General Information		
Extended Product Type	AF1350-30-22-70	
Product ID	1SFL657001R7022	
EAN	7320500250150	
Catalog Description	AF1350-30-22-70 100-250V 50/60Hz / 100-250V DC Contactor	
Long Description	The AF1350-30-22-70 is a 3 pole - 1000 V IEC or 1000 V UL contactor with pre-mounter auxiliary contacts and Main Circuit Bars, controlling motors up to 475 kW / 400 V AI (AC-3) or 800 hp / 480 V UL and switching power circuits up to 1350 A (AC-1) or 1350 J UL general use. Thanks to the AF technology, the contactor has a wide control voltage range (100-250 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. A contactors have a block type design, can be easily extended with add-on auxiliary contact blocks and an additional wide range of accessories.	

Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

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Popular Downloads		
EPLAN Data	9AAC200757_EPLAN	
Data Sheet, Technical Information	1SBC100214C0202	
Data Sheet, Technical Information (Part 2)	1SAC200017M0002	
Instructions and Manuals	1SFC101002M5501	
CAD Dimensional Drawing	2CDC001079B0201	

Dimensions		
Product Net Width	438 mm	
Product Net Depth / Length	244 mm	
Product Net Height	392 mm	
Product Net Weight	32 kg	
Dimension Diagram	53540930-7	

Technical		
Number of Main Contacts NO	3	
Number of Main Contacts NC	0	
Number of Auxiliary Contacts NO	2	
Number of Auxiliary Contacts NC	2	
Number of Poles	3F	
Rated Operational Voltage	Main Circuit 1000 \	
Rated Frequency (f)	Main Circuit 50 / 60 Hz	
Conventional Free-air Thermal Current (I <sub>th</sub> )	acc. to IEC 60947-4-1, Open Contactors Θ = 40 °C 1350 Å	
Rated Operational Current AC-1 (I <sub>e</sub> )	(1000 V) 40 °C 1350 A (1000 V) 55 °C 1150 A (1000 V) 70 °C 1000 A (690 V) 40 °C 1350 A (690 V) 55 °C 1150 A (690 V) 70 °C 1000 A	
Rated Operational Current AC-3 (I <sub>e</sub> )	(415 V) 55 °C 860 A (440 V) 55 °C 860 A (500 V) 55 °C 800 A (690 V) 55 °C 800 A (1000 V) 55 °C 375 A (380 / 400 V) 55 °C 860 A (220 / 230 / 240 V) 55 °C 860 A	
Rated Operational Current DC-1 (I <sub>e</sub> )	(220 V) 3 Poles in Series, 40 °C 1350 A (600 V) 3 Poles in Series, 40 °C 1350 A (850 V) 3 Poles in Series, 40 °C 1350 A	
Rated Operational	(220 V) 3 Poles in Series, 40 °C 1350 A	
Current DC-3 (I <sub>e</sub> )	(600 V) 3 Poles in Series, 40 °C 1350 A (850 V) 3 Poles in Series, 40 °C 1350 A	
Rated Operational Current DC-5 (I <sub>e</sub> )	(220 V) 3 Poles in Series, 40 °C 1350 A (600 V) 3 Poles in Series, 40 °C 1350 A (850 V) 3 Poles in Series, 40 °C 1350 A	
Rated Operational Power	(415 V) 500 kW	

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AC-3 (P <sub>e</sub> )		(440 V) 560 kW (500 V) 560 kW (690 V) 800 kW (1000 V) 560 kW (380 / 400 V) 475 kW (220 / 230 / 240 V) 257 kW
Rated Breaking Capacity AC-3		8 x le AC-3
Rated Making Capacity AC-3		10 x le AC-3
Rated Short-time Withstand Current Low Voltage (I <sub>cw</sub> )	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1600 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 6000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 10000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 8000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 4500 A	
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 10000 A	
Rated Insulation Voltage $(U_i) \\$ Rated Impulse	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to UL/CSA 1000 V Main Circuit 8 kV	
Withstand Voltage (U <sub>imp</sub> )		
Maximum Electrical Switching Frequency	(AC-1) 60 cycles per hour (AC-2 / AC-4) 60 cycles per hour (AC-3) 60 cycles per hour	
Mechanical Durability	0.5 million	
Maximum Mechanical Switching Frequency	300 cycles per hour	
Coil Operating Limits	(acc. to IEC 60947-4-1) 0.85 x Uc	Min 1.1 x Uc Max. (at $\theta \le 70$ °C)
Rated Control Circuit Voltage (U <sub>c</sub> )	50 Hz 100 250 V 50 Hz / 60 Hz 100 250 V 60 Hz 100 250 V DC Operation 100 250 V	
Coil Consumption	Holding at Max. Rated Control Circuit Voltage 50 Hz 48 V-A Holding at Max. Rated Control Circuit Voltage 60 Hz 48 V-A Holding at Max. Rated Control Circuit Voltage DC 20.5 V-A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 2450 V-A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 2450 V-A Pull-in at Max. Rated Control Circuit Voltage DC 2290 V-A	
Power Loss	at Rated Op	erating Conditions per Pole 80 W
Operate Time	Between Coil De-energization and NC Contact Closing 35 55 ms Between Coil De-energization and NO Contact Opening 35 55 ms Between Coil Energization and NC Contact Opening 50 80 ms Between Coil Energization and NO Contact Closing 50 80 ms	
Connecting Capacity Main Circuit		Bar 100 mm²
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 1x 0.75 2.5 mm² Flexible with Ferrule 2x 0.75 2.5 mm² Flexible with Insulated Ferrule 2x 0.75 2.5 mm² Flexible 1x0.75 2.5 mm² Flexible 2x0.75 2.5 mm² Solid 2 x 1 4 mm² Stranded 1 x 1 4 mm² Stranded 2 x 1 4 mm²	
Connecting Capacity		Bar 100 mm²
Degree of Protection	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP00	
Connecting Terminals (delivered in open position) Main Poles	M 3.5 (+,-) pozidriv 2 screw with cable clamp	
Recommended Screw Driver		Main Circuit M12 Control Circuit Pozidriv 2 Control Circuit M3.5
Tightening Torque		Cable Lug 45 N·m Main Circuit 45 N·m
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