

PRODUCT-DETAILS

## AF2050-30-00-70 AF2050-30-00-70 Contactor



1SFL707001R7000 7320500514078 AF2050-30-00-70 Contactor contactor with Main Circuit general use. Thanks to the
AF2050-30-00-70 Contactor
contactor with Main Circuit
(100-250 V 50/60 Hz and el energy consumptions and surge protection is built-in, sign, can be easily extended I wide range of accessories
1 piece
85364900
5

1SBC100192C0206

Instructions and Manuals

Data Sheet, Technical

Information

1SFC101002M5501

mensions	
Product Net Width	438 mm
Product Net Depth / Length	244 mm
Product Net Height	392 mm
Product Net Weight	33 kg

Technical	
Number of Main Contacts NO	3
Number of Main Contacts NC	C
Number of Auxiliary Contacts NO	C
Number of Auxiliary Contacts NC	C
Rated Operational Voltage	Main Circuit 1000 V
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 q = 40 °C 2050 A
Rated Operational Current AC-1 (I <sub>e</sub> )	(1000 V) 40 °C 2050 A (1000 V) 55 °C 1750 A (1000 V) 70 °C 1500 A (690 V) 40 °C 2050 (690 V) 55 °C 1750 (690 V) 70 °C 1500
Rated Operational Current AC-3 (I <sub>e</sub> )	(415 V) 55 °C 1060 A (440 V) 55 °C 1060 A (500 V) 55 °C 970 A (690 V) 55 °C 970 A (1000 V) 55 °C 425 A (380 / 400 V) 55 °C 1060 A (220 / 230 / 240 V) 55 °C 1060
Rated Operational Power AC-3 (P <sub>e</sub> )	(415 V) 630 kW (440 V) 710 kW (690 V) 1000 kW (1000 V) 630 kW
Rated Making Capacity AC-3 acc. to IEC 60947-4- 1	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 10000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 2200 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 5500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 12000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 12000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 7500 A
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 12000 A
Maximum Electrical Switching Frequency	(AC-1) 60 cycles per hour
Rated Operational Current DC-1 (I <sub>e</sub> )	(220 V) 3 Poles in Series, 40 °C 2050 A (600 V) 3 Poles in Series, 40 °C 2050 A (850 V) 3 Poles in Series, 40 °C 2050 A
Rated Operational Current DC-3 (I <sub>e</sub> )	(220 V) 3 Poles in Series, 40 °C 2050 A (600 V) 3 Poles in Series, 40 °C 2050 A (850 V) 3 Poles in Series, 40 °C 2050 A

Rated Operational Current	(220 V) 3 Poles in Series, 40 °C 2050 A
DC-5 $(I_p)$	(600 V) 3 Poles in Series, 40 °C 2050 A
	(850 V) 3 Poles in Series, 40 °C 2050 A
Rated Insulation Voltage	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V
(U <sub>i</sub> )	acc. to UL/CSA 1000 V
Rated Impulse Withstand	Main Circuit 8 kV
Voltage (U <sub>imp</sub> )	
Mechanical Durability	0.5 million
Maximum Mechanical	300 cycles per hour
Switching Frequency	
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	50 Hz 100 250 V
Voltage (U <sub>c</sub> )	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
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	Bar 100 mm²
Circuit	
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
Terminal Type	Main Circuit: Bars

chnical UL/CSA	
Maximum Operating Voltage UL/CSA	Main Circuit 1000 V
General Use Rating UL/CSA	(1000 V AC) 2100 A (600 V AC) 2100 A

Environmental	
Ambient Air Temperature	Close to Contactor Fitted with Thermal O/L Relay (0.85 1.1 Uc) -25 50 °C Close to Contactor without Thermal O/L Relay (0.85 1.1 Uc) -40 70 °C Close to Contactor for Storage -40 +70 °C
Maximum Operating Altitude Permissible	Without Derating 3000 m
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

Certificates and Declarations (Document Number)	
ABS Certificate	15-LD1408622-PDA
BV Certificate	BV_13409-C0BV
CB Certificate	SEMKO_SE-74013
CCS Certificate	GB14T00030
CQC Certificate	CQC2003010304101933 CQC2015010304752548

cUL Certificate	UL_20130904-E73397
Declaration of Conformity - CCC	2020980304001303 2020980304001043
Declaration of Conformity - CE	2CMT2019-005796
EAC Certificate	9AKK107046A8618
Environmental Information	1SFC101062D0201 1SAC200047H0009
Instructions and Manuals	1SFC101002M5501
RINA Certificate	ELE060313XG_002
RMRS Certificate	9AKK107045A6978
RoHS Information	2CMT2019-005796
UL Listing Card	UL_E73397

Container Information	
Package Level 1 Units	box 1 piece
Package Level 1 Width	555 mm
Package Level 1 Depth / Length	365 mm
Package Level 1 Height	500 mm
Package Level 1 Gross Weight	35 kg

Classifications	
Object Classification Code	Q
ETIM 6	EC000066 - Power contactor, AC switching
ETIM 7	EC000066 - Power contactor, AC switching
eClass	V11.0 : 27371003
UNSPSC	39121529
IDEA Granular Category Code (IGCC)	4755 >> Contactors

## Categories

Low Voltage Products and Systems  $\rightarrow$  Control Products  $\rightarrow$  Contactors  $\rightarrow$  Block Contactors

