

# AF140-40-11-13



Products Low Voltage Products and Systems Control Products Contactors Block Contactors

## General Information

<b>Extended Product Type:</b>	AF140-40-11-13
<b>Product ID:</b>	1SFL447101R1311
<b>EAN:</b>	7320500503744
<b>Catalog Description:</b>	AF140-40-11-13 Contactor
<b>Long Description:</b>	A 3-phase Contactor suitable for various applications such as Motor starting, Isolation, Bypass and Distribution application up to max 690 V. Operated with wide control voltage range 100-250 V, 50/60 Hz and DC

## Additional Information

<b>ABB Industrial IT Suite:</b>	Control IT
<b>Ambient Air Temperature:</b>	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
<b>Battery Information:</b>	Type NONE
<b>Block Contactor Type:</b>	4-Pole Contactor
<b>Coil Consumption:</b>	Pull-in at Max. Rated Control Circuit Voltage 60 Hz 130 V·A Holding at Max. Rated Control Circuit Voltage DC 3 W Holding at Max. Rated Control Circuit Voltage 50 Hz 6 V·A Pull-in at Max. Rated Control Circuit Voltage DC 135 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 130 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 6 V·A
<b>Coil Operating Limits:</b>	(acc. to IEC 60947-4-1) 0.85 x Uc Min. ... 1.1 x Uc Max. (at $\theta \leq 70$ °C) °C
<b>Coil Voltage Code:</b>	13
<b>Connecting Capacity Auxiliary Circuit:</b>	Solid 2x1...4 mm <sup>2</sup> Flexible with Insulated Ferrule 2x0.75...2.5 mm <sup>2</sup> Stranded 2x1...4 mm <sup>2</sup> Flexible 1x0.75...2.5 mm <sup>2</sup> Flexible with Ferrule 2x0.75...2.5 mm <sup>2</sup>
<b>Connecting Capacity Main Circuit:</b>	Rigid Cu-Cable 1x10...95 mm <sup>2</sup> Flexible 1x10...70 mm <sup>2</sup>
<b>Conventional Free-air Thermal Current (I<sub>th</sub>):</b>	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 200 A
<b>Country of Origin:</b>	Sweden (SE)
<b>Customs Tariff Number:</b>	85364900
<b>Degree of Protection:</b>	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP00
<b>Drop-out Voltage in % of Uc:</b>	55 %
<b>EAN:</b>	7320500503744
<b>EPLAN Catalog Tree:</b>	Electrical engineering / Relays, contactors / Contactors
<b>EPLAN Function Definition:</b>	NC contact / NC contact, 2 connection points / NC auxiliary contact 21_22 NO contact / NO contact, 2 connection points / NO auxiliary contact 13_14 NO contact / NO contact, 2 connection points / Power NO contact 7_8 Coil / Coil, 2 connection points / Coil for power contactor A1_A2
<b>ETIM 4:</b>	EC000066 - Magnet contactor, AC-switching
<b>ETIM 5:</b>	EC000066 - Magnet contactor, AC-switching
<b>ETIM 6:</b>	EC000066 - Power contactor, AC switching
<b>General Use Rating UL/CSA:</b>	(600 V AC) 200 A
<b>Industrial IT Certification Level:</b>	0
<b>Invoice Description:</b>	AF140-40-11-13 Contactor
<b>Maximum Breaking Capacity:</b>	cos phi=0.45 (cos phi=0.35 for I <sub>e</sub> > 100 A) at 440 V 3000 A

<b>Maximum Electrical Switching Frequency:</b>	AC-1 300 cycles per hour
<b>Maximum Mechanical Switching Frequency:</b>	300 cycles per hour
<b>Maximum Operating Altitude Permissible:</b>	3000 m
<b>Maximum Operating Voltage UL/CSA:</b>	Main Circuit 600 V
<b>Mechanical Durability:</b>	5 million
<b>Minimum Order Quantity:</b>	1 piece
<b>NEMA Size:</b>	4
<b>Number of Auxiliary Contacts NC:</b>	1
<b>Number of Auxiliary Contacts NO:</b>	1
<b>Number of Main Contacts NC:</b>	0
<b>Number of Main Contacts NO:</b>	4
<b>Number of Poles:</b>	4
<b>Object Classification Code:</b>	Q
<b>Operate Time:</b>	Between Coil Energization and NO Contact Closing 20...55 ms Between Coil De-energization and NO Contact Opening 40...70 ms
<b>Order Multiple:</b>	1 piece
<b>Package Level 1 Gross Weight:</b>	2.27 kg
<b>Package Level 1 Units:</b>	1 piece
<b>Part Type:</b>	New
<b>Product Main Type:</b>	AF140
<b>Product Name:</b>	Contacteur
<b>Product Net Depth:</b>	128,1 mm
<b>Product Net Height:</b>	150 mm
<b>Product Net Weight:</b>	2.07 kg
<b>Product Net Width:</b>	120 mm
<b>Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1:</b>	8 x I <sub>e</sub> AC-3
<b>Rated Control Circuit Voltage (U<sub>c</sub>):</b>	60 Hz 100...250 V 50 Hz 100...250 V DC Operation 100...250 V
<b>Rated Frequency (f):</b>	Main Circuit 60 Hz
<b>Rated Frequency Limits:</b>	25...400 Hz
<b>Rated Impulse Withstand Voltage (U<sub>imp</sub>):</b>	Main Circuit 8 kV
<b>Rated Insulation Voltage (U<sub>i</sub>):</b>	acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V
<b>Rated Making Capacity AC-3 acc. to IEC 60947-4-1:</b>	10 x I <sub>e</sub> AC-3
<b>Rated Operational Current AC-1 (I<sub>e</sub>):</b>	(690 V) 40 °C 200 A (690 V) 70 °C 160 A (690 V) 60 °C 175 A
<b>Rated Operational Current AC-3 (I<sub>e</sub>):</b>	(415 V) 55 °C 140 A (220 / 230 / 240 V) 55 °C 140 A (440 V) 55 °C 140 A (380 / 400 V) 55 °C 140 A
<b>Rated Operational Power AC-3 (P<sub>e</sub>):</b>	(220 / 230 / 240 V) 37 kW (380 / 400 V) 75 kW (440 V) 90 kW (415 V) 75 kW
<b>Rated Operational Voltage:</b>	Main Circuit 690 V
<b>Rated Short-time Withstand Current (I<sub>cw</sub>):</b>	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1168 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 674 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 200 A

