

Products → Low Voltage Products and Systems → Control Products → Contactors → Block Contactors

## General Information

<b>Extended Product Type:</b>	AF140-40-11-14
<b>Product ID:</b>	1SFL447101R1411
<b>EAN:</b>	7320500503737
<b>Catalog Description:</b>	AF140-40-11-14 Contactor
<b>Long Description:</b>	A 3-phase Contactor suitable for various applications such as Motor starting, Isolation, By-pass and Distribution application up to max 690 V. Operated with wide control voltage range 250-500 V, 50/60 Hz and DC

## Ordering

<b>Minimum Order Quantity:</b>	1 piece
<b>Customs Tariff Number:</b>	85364900

## Dimensions

<b>Product Net Width:</b>	120 mm
<b>Product Net Depth / Length:</b>	128,1 mm
<b>Product Net Height:</b>	150 mm
<b>Product Net Weight:</b>	2.07 kg

## Technical

<b>Number of Main Contacts NO:</b>	4
<b>Number of Main Contacts NC:</b>	0
<b>Number of Auxiliary Contacts NO:</b>	1
<b>Number of Auxiliary Contacts NC:</b>	1
<b>Rated Operational Voltage:</b>	Main Circuit 690 V
<b>Rated Frequency (f):</b>	Main Circuit 60 Hz
<b>Conventional Free-air Thermal Current (<math>I_{th}</math>):</b>	acc. to IEC 60947-4-1, Open Contactors $q = 40$ °C 200 A
<b>Rated Operational Current AC-1 (<math>I_e</math>):</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 (<math>I_e</math>):</b>	(220 / 230 / 240 V) 55 °C 140 A (415 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 Breaking Capacity AC-3 acc. to IEC 60947-4-1:</b>	8 x I <sub>e</sub> AC-3
<b>Rated Making Capacity AC-3 acc. to IEC 60947-4-1:</b>	10 x I <sub>e</sub> AC-3
<b>Short-Circuit Protective Devices:</b>	gG Type Fuses 250 A
<b>Rated Short-time Withstand Current (I<sub>cw</sub>):</b>	at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 200 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 10 s 1168 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1460 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 477 A
<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>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 Impulse Withstand Voltage (U<sub>imp</sub>):</b>	Main Circuit 8 kV
<b>Mechanical Durability:</b>	5 million
<b>Maximum Mechanical Switching Frequency:</b>	300 cycles per hour
<b>Coil Operating Limits:</b>	(acc. to IEC 60947-4-1) 0.85 x U <sub>c</sub> Min. ... 1.1 x U <sub>c</sub> Max. (at θ ≤ 70 °C) °C
<b>Rated Control Circuit Voltage (U<sub>c</sub>):</b>	60 Hz 250 ... 500 V 50 Hz 250 ... 500 V DC Operation 250 ... 500 V
<b>Coil Consumption:</b>	Pull-in at Max. Rated Control Circuit Voltage 60 Hz 205 V·A Holding at Max. Rated Control Circuit Voltage DC 4 W Holding at Max. Rated Control Circuit Voltage 50 Hz 16.1 V·A Pull-in at Max. Rated Control Circuit Voltage DC 204 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 205 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 16.1 V·A
<b>Operate Time:</b>	Between Coil De-energization and NO Contact Opening 40 ... 70 ms Between Coil Energization and NO Contact Closing 20 ... 55 ms
<b>Connecting Capacity Main Circuit:</b>	Flexible 1 x 10 ... 70 mm <sup>2</sup> Rigid Cu-Cable 2 x 10 ... 95 mm <sup>2</sup>
<b>Connecting Capacity Auxiliary Circuit:</b>	Solid 2 x 1 ... 4 mm <sup>2</sup> Flexible with Insulated Ferrule 1 x 0.75 ... 2.5 mm <sup>2</sup> Stranded 2 x 1 ... 4 mm <sup>2</sup> Flexible 2x0.75 ... 2.5 mm <sup>2</sup> Flexible with Ferrule 2 x 0.75 ... 2.5 mm <sup>2</sup>

<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>Terminal Type:</b>	Double Clamp
-----------------------	--------------

## Environmental

<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>Maximum Operating Altitude Permissible:</b>	3000 m
--	--------

## Technical UL/CSA

<b>Maximum Operating Voltage UL/CSA:</b>	Main Circuit 600 V
--	--------------------

<b>General Use Rating UL/CSA:</b>	(600 V AC) 200 A
-----------------------------------	------------------

## Certificates and Declarations (Document Number)

<b>CB Certificate:</b>	SEMKO_SE-77317
------------------------	----------------

<b>CCC Certificate:</b>	2013010304604055
-------------------------	------------------

<b>cUL Certificate:</b>	E73397_20140710
-------------------------	-----------------

<b>DNV GL Certificate:</b>	DNV_E-14043
----------------------------	-------------

<b>LR Certificate:</b>	LR_14_70011(E1)
------------------------	-----------------

## Container Information

<b>Package Level 1 Units:</b>	1 piece
-------------------------------	---------

<b>Package Level 1 Gross Weight:</b>	2.27 kg
--------------------------------------	---------

<b>Package Level 1 EAN:</b>	7320500503737
-----------------------------	---------------

## Classifications

<b>Object Classification Code:</b>	Q
------------------------------------	---

<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
----------------	--

