



**Automatización Eléctrica**

Especialistas en Automatización

At the end of this document you will find links to products related to this catalog. You can go directly to our shop by clicking [HERE](#)

# AF1650T-30-22 230-240V 50/60Hz / 230-240V DC



## General Information

<b>Extended Product Type:</b>	AF1650T-30-22 230-240V 50/60Hz / 230-240V DC
<b>Product ID:</b>	1SFL677001R9101
<b>EAN:</b>	7320500381090
<b>Catalog Description:</b>	AF1650T-30-22 230-240V 50/60Hz / 230-240V DC Contactor
<b>Long Description:</b>	A 3-phase Contactor with delayed de-energization up to 1 sec. (Low Voltage Ride Through, LVRT) mainly for solar & wind application up to max 1000 V. Operated with wide control voltage range 230-240 V, AC/DC

## Categories

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

## Ordering

<b>EAN:</b>	7320500381090
<b>Minimum Order Quantity:</b>	1 piece
<b>Customs Tariff Number:</b>	85364900

## Dimensions

<b>Product Net Width:</b>	438.0 mm
<b>Product Net Depth:</b>	244.0 mm
<b>Product Net Height:</b>	392.0 mm
<b>Product Net Weight:</b>	33.000 kg

## Container Information

<b>Package Level 1 Units:</b>	1 piece
<b>Package Level 1 Width:</b>	250 mm
<b>Package Level 1 Length:</b>	440 mm
<b>Package Level 1 Height:</b>	430 mm
<b>Package Level 1 Gross Weight:</b>	38 kg
<b>Package Level 1 EAN:</b>	7320500381090

## Technical

<b>Number of Main Contacts NO:</b>	3
<b>Number of Main Contacts NC:</b>	0
<b>Number of Auxiliary Contacts NO:</b>	2
<b>Number of Auxiliary Contacts NC:</b>	2
<b>Rated Operational Voltage:</b>	Main Circuit 1000 V
<b>Rated Frequency (f):</b>	Main Circuit 50/60 Hz
<b>Conventional Free-air Thermal Current (I<sub>th</sub>):</b>	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 2050 A
<b>Rated Operational Current AC-1 (I<sub>e</sub>):</b>	(690 V) 55 °C 1450 A (690 V) 40 °C 1650 A (1000 V) 40 °C 1650 A (1000 V) 55 °C 1450 A (690 V) 70 °C 1270 A (1000 V) 70 °C 1270 A
<b>Rated Operational Current AC-3 (I<sub>e</sub>):</b>	(690 V) 55 °C 950 A (220 / 230 / 240 V) 55 °C 1050 A (415 V) 55 °C 1050 A (440 V) 55 °C 1050 A (380 / 400 V) 55 °C 1050 A (500 V) 55 °C 950 A
<b>Rated Operational Power AC-3 (P<sub>e</sub>):</b>	(500 V) 700 kW (220 / 230 / 240 V) 315 kW (690 V) 900 kW (380 / 400 V) 560 kW (440 V) 670 kW (415 V) 600 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>Rated Short-time Withstand Current (I<sub>cw</sub>):</b>	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 10 s 10000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 7500 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 min 5500 A

<b>Maximum Breaking Capacity:</b>	cos phi=0.45 (cos phi=0.35 for I <sub>e</sub> > 100 A) at 440 V 12000 A
<b>Maximum Electrical Switching Frequency:</b>	AC-3 60 cycles per hour AC-1 60 cycles per hour AC-2 / AC-4 60 cycles per hour
<b>Rated Operational Current DC-1 (I<sub>e</sub>):</b>	(850 V) 3 Poles in Series, 40 °C 1650 A (600 V) 3 Poles in Series, 40 °C 1650 A (220 V) 3 Poles in Series, 40 °C 1650 A
<b>Rated Operational Current DC-3 (I<sub>e</sub>):</b>	(850 V) 3 Poles in Series, 40 °C 1650 A (600 V) 3 Poles in Series, 40 °C 1650 A (220 V) 3 Poles in Series, 40 °C 1650 A
<b>Rated Operational Current DC-5 (I<sub>e</sub>):</b>	(850 V) 3 Poles in Series, 40 °C 1650 A (600 V) 3 Poles in Series, 40 °C 1650 A (220 V) 3 Poles in Series, 40 °C 1650 A
<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>	0.5 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 230 ... 240 V 50 Hz 230 ... 240 V DC Operation 230 ... 240 V
<b>Coil Consumption:</b>	Pull-in at Max. Rated Control Circuit Voltage 60 Hz 2450 V·A Holding at Max. Rated Control Circuit Voltage DC 20.5 V·A Holding at Max. Rated Control Circuit Voltage 50 Hz 48 V·A Pull-in at Max. Rated Control Circuit Voltage DC 2290 V·A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 2450 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 48 V·A
<b>Operate Time:</b>	Between Coil Energization and NO Contact Closing 50 ... 80 ms Between Coil De-energization and NO Contact Opening 35 ... 55 ms Between Coil De-energization and NC Contact Closing 35 ... 55 ms Between Coil Energization and NC Contact Opening 50 ... 80 ms
<b>Connecting Capacity-Main Circuit:</b>	Bar 100 mm
<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>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>	Main Circuit: Bars

## Environmental

<b>Ambient Air Temperature:</b>	Close to Contactor Fitted with Thermal O/L Relay (0.85 ... 1.1 U <sub>c</sub> ) -25...+50 °C Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 U <sub>c</sub> ) -40...+70 °C Close to Contactor for Storage -40...+70 °C
<b>Maximum Operating Altitude Permissible:</b>	3000 m
<b>RoHS Status:</b>	Following EU Directive 2002/95/EC August 18, 2005 and amendment

## Technical UL/CSA

<b>Maximum Operating Voltage UL/CSA:</b>	Main Circuit 600 V
<b>General Use Rating UL/CSA:</b>	(600 V AC) 1650 A
<b>Horsepower Rating UL/CSA:</b>	(440 ... 480 V AC) Three Phase 900 Hp (550 ... 600 V AC) Three Phase 1150 Hp (220 ... 240 V AC) Three Phase 450 Hp

## Certificates and Declarations (Document Number)

<b>BV Certificate:</b>	13409/C0 BV
<b>CB Certificate:</b>	SE-74015
<b>CCC Certificate:</b>	CQC_2003010304101933
<b>Declaration of Conformity - CE:</b>	1SFA1-67
<b>GL Certificate:</b>	GL_20263-04HH
<b>LOVAG Certificate:</b>	SE-201993
<b>LR Certificate:</b>	LR_04-00015-E1
<b>RINA Certificate:</b>	ELE060313XG/002

RoHS Information:

1SFC101061D0201

---

### Classifications

ETIM 5: EC000066 - Magnet contactor, AC-switching

UNSPSC: 39121529

---





Below is a list of articles with direct links to our shop Electric Automation Network where you can see:

- Quote per purchase volume in real time.
- Online documentation and datasheets of all products.
- Estimated delivery time enquiry in real time.
- Logistics systems for the shipment of materials almost anywhere in the world.
- Purchasing management, order record and tracking of shipments.

To access the product, [click on the green button.](#)

<b>Product</b>	<b>Code</b>	<b>Reference</b>	<b>Product link</b>
AF1650T-30-22 230-240V 50/60Hz / 230-240V DC Contactor	1SFL677001R9101	AF1650T-30-11	<a href="#">Buy on EAN</a>