

Products Low Voltage Products and Systems Control Products Contactors Block Contactors

General Information

Extended Product Type:	AF190-40-11-13
Product ID:	1SFL487102R1311
EAN:	7320500504277
Catalog Description:	AF190-40-11-13 Contactor
Long Description:	A 3-phase Contactor suitable for various applications such as Motor starting, Isolation, Bypass and Distribution application up to max 1000 V. Operated with wide control voltage range 100-250 V, 50/60 Hz and DC

Additional Information

ABB Industrial IT Suite:	Control IT
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
Battery Information:	Type NONE
Block Contactor Type:	4-Pole Contactor
Coil Consumption:	Pull-in at Max. Rated Control Circuit Voltage 60 Hz 220 V·A Holding at Max. Rated Control Circuit Voltage DC 2.5 W Holding at Max. Rated Control Circuit Voltage 50 Hz 7 V·A Pull-in at Max. Rated Control Circuit Voltage DC 190 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 220 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 7 V·A
Coil Operating Limits:	(acc. to IEC 60947-4-1) 0.85 x Uc Min. ... 1.1 x Uc Max. (at $\theta \leq 70$ °C) °C
Coil Voltage Code:	13
Connecting Capacity Auxiliary Circuit:	Solid 2x1...4 mm ² Flexible with Insulated Ferrule 1x0.75...2.5 mm ² Stranded 1x1...4 mm ² Flexible 2x0.75...2.5 mm ² Flexible with Ferrule 2x0.75...2.5 mm ²
Connecting Capacity Main Circuit:	Rigid Al-Cable 1x95...185 mm ² Flexible 2x50...95 mm ² Rigid Cu-Cable 1x6...150 mm ²
Conventional Free-air Thermal Current (I_{th}):	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 275 A
Country of Origin:	Sweden (SE)
Customs Tariff Number:	85364900
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
Drop-out Voltage in % of Uc:	55 %
E-number:	3210327
EAN:	7320500504277
EPLAN Catalog Tree:	Electrical engineering / Relays, contactors / Contactors
EPLAN Function Definition:	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
ETIM 4:	EC000066 - Magnet contactor, AC-switching
ETIM 5:	EC000066 - Magnet contactor, AC-switching
ETIM 6:	EC000066 - Power contactor, AC switching
General Use Rating UL/CSA:	(600 V AC) 250 A
Industrial IT Certification Level:	0

Invoice Description:	AF190-40-11-13 Contactor
Maximum Breaking Capacity:	cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 440 V 3300 A
Maximum Electrical Switching Frequency:	AC-1 300 cycles per hour
Maximum Mechanical Switching Frequency:	300 cycles per hour
Maximum Operating Altitude Permissible:	3000 m
Maximum Operating Voltage UL/CSA:	Main Circuit 600 V
Mechanical Durability:	5 million
Minimum Order Quantity:	1 piece
Number of Auxiliary Contacts NC:	1
Number of Auxiliary Contacts NO:	1
Number of Main Contacts NC:	0
Number of Main Contacts NO:	4
Number of Poles:	4
Object Classification Code:	Q
Operate Time:	Between Coil Energization and NO Contact Closing 25...60 ms Between Coil De-energization and NO Contact Opening 45...80 ms
Order Multiple:	1 piece
Package Level 1 Gross Weight:	3.92 kg
Package Level 1 Units:	1 piece
Part Type:	New
Product Main Type:	AF190
Product Name:	Contacteur
Product Net Depth:	152,6 mm
Product Net Height:	195,6 mm
Product Net Weight:	3.37 kg
Product Net Width:	140 mm
Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1:	8 x I _e AC-3
Rated Control Circuit Voltage (U_c):	60 Hz 100...250 V 50 Hz 100...250 V DC Operation 100...250 V
Rated Frequency (f):	Main Circuit 60 Hz
Rated Frequency Limits:	25...400 Hz
Rated Impulse Withstand Voltage (U_{imp}):	Main Circuit 8 kV
Rated Insulation Voltage (U_i):	acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V
Rated Making Capacity AC-3 acc. to IEC 60947-4-1:	10 x I _e AC-3
Rated Operational Current AC-1 (I_e):	(690 V) 40 °C 275 A (1000 V) 40 °C 250 A (690 V) 70 °C 200 A (690 V) 60 °C 250 A (1000 V) 60 °C 225 A (1000 V) 70 °C 185 A
Rated Operational Current AC-3 (I_e):	(220 / 230 / 240 V) 55 °C 190 A (415 V) 55 °C 190 A (440 V) 55 °C 190 A (380 / 400 V) 55 °C 190 A
Rated Operational Power AC-3 (P_e):	(220 / 230 / 240 V) 55 kW (380 / 400 V) 90 kW (440 V) 110 kW (415 V) 90 kW

Rated Operational Voltage:	Main Circuit 1000 V
Rated Short-time Withstand Current (I_{cw}):	at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 878 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1520 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 275 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1900 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 621 A
Selling Unit of Measure:	piece
Short Description:	AF190-40-11-13 Contactor
Short-Circuit Protective Devices:	gG Type Fuses 355 A
Terminal Type:	Main Circuit: Bars
Tightening Torque:	Cable Lug 18 N·m Main Circuit 14...31 N·m

