

PRODUCT-DETAILS

AF45-40-00 20-60V DC AF45-40-00 20-60V DC Contactor



General Information	
Extended Product Type	AF45-40-00 20-60V DC
Product ID	1SBL337201R7200
EAN	3471522114426

Catalog Description AF45-40-00 20-60V DC Contactor

loads (i.e. resistance furnaces...) and generally for controlling power circuits up to 690 V AC and 440 V DC. The contactors can also be used for many other applications such lighting... The AF... contactors are fitted with an electronic coil interface which accepts a wide control voltage range, on AC 50/60 Hz or DC supplies. The same contactor can accept various supply voltages according to the different countries where the electrical equipment will be installed, or some fluctuation in the control voltage due to the local supply or network. The AF... contactors are also fully suitable for operation in AC or DC control circuit liable to voltage interruptions or voltage dip risks. Advantages: - Wide voltage range, e.g. 100 ... 250 V AC and DC - Can manage large voltage variations - Reduced power consumption - Very distinct closing and opening - Noise free - Can withstand voltage interruptions or voltage dips in the control supply (≤ 20 ms). The AF... series 4-pole contactors are of the block type design. - Main poles and auxiliary contact blocks: 4 N.O. main poles, front and side-mounted add-on auxiliary contact blocks - Control circuit: AC or DC operated - Accessories: a wide

range of accessories is available.

EC000066 - Power contactor, AC switching

AF45 4-pole contactors are mainly used for controlling non-inductive or slightly inductive

Long Description

ETIM 7

Classifications Object Classification Code ETIM 4 EC000066 - Magnet contactor, AC-switching ETIM 5 EC000066 - Magnet contactor, AC-switching ETIM 6 EC000066 - Power contactor, AC switching

AF45-40-00 20-60V DC 2

UNSPSC 39121529

Container Information	
Package Level 1 Units	1 piece
Package Level 1 Width	142 mm
Package Level 1 Depth / Length	190 mm
Package Level 1 Height	136 mm
Package Level 1 Gross Weight	1.42 kg
Package Level 1 EAN	3471522114426
Package Level 2 Units	box 8 piece
Package Level 2 Width	503 mm
Package Level 2 Depth / Length	153 mm
Package Level 2 Height	307 mm
Package Level 2 Gross Weight	11.36 kg
Package Level 3 Units	84 piece

Certificates and Declarations (Document Number)	
CB Certificate	CB_CN45489
CCC Certificate	CCC_2018010304134049
CSA Certificate	CSA_1033838_LR056745
Declaration of Conformity - CE	1SBD250803U1000
EAC Certificate	EAC_RU C-FR ME77 B01010
Environmental Information	1SBD250057E1001
GOST Certificate	GOST_POCCFRME77B07175
Instructions and Manuals	FPTC407734P0003
RoHS Information	1SBD250803U1000
UL Certificate	UL_20120830-E312527-10-1
UL Listing Card	UL_E312527

Environmental	
Ambient Air Temperature	Close to Contactor for Storage -60 +80 °C Near Contactor for Operation in Free Air -40 +70 °C
Climatic Withstand	acc. to IEC 60068-2-30 and 60068-2-11 - UTE C 63-100 specification II
Maximum Operating Altitude Permissible	3000 m
Resistance to Shock acc. to IEC 60068-2-27	Shock Direction: A 20 K40 Shock Direction: B2 15 K40 Shock Direction: C1 20 K40 Shock Direction: C2 20 K40 Closed, Shock Direction: B1 10 K40 Open, Shock Direction: B1 5 K40
RoHS Status	Following EU Directive 2011/65/EU

Technical	
Number of Main Contacts NO	4
Number of Main Contacts NC	0

AF45-40-00 20-60V DC 3

Number of Auxiliary Contacts NC	
Rated Operational Voltage	Main Circuit 690 \
Conventional Free-air Thermal Current (I _{th})	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 100 A
Rated Operational Current AC-1 (I _e)	(690 V) 40 °C 70 A (690 V) 55 °C 60 A (690 V) 70 °C 50 A
Rated Operational Current AC-3 (I _e)	(220 / 230 / 240 V) 55 °C 40 A (380 / 400 V) 55 °C 37 A (415 V) 55 °C 37 A (440 V) 55 °C 37 A (500 V) 55 °C 37 A (690 V) 55 °C 25 A
Rated Operational Power AC-3 (P _e)	(220 / 230 / 240 V) 15 kW (380 / 400 V) 22 kW (415 V) 25 kW (440 V) 25 kW (500 V) 30 kW (690 V) 30 kW
Rated Breaking Capacity AC-3 acc. to IEC 60947-4- 1	8 x le AC-3
Rated Making Capacity AC-3 acc. to IEC 60947-4- I	10 x le AC-3
Short-Circuit Protective Devices	gG Type Fuses 80 A
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 900 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 490 A
Maximum Electrical Switching Frequency	AC-1 300 cycles per hou AC-2 / AC-4 150 cycles per hou AC-3 300 cycles per hou
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 Impulse Withstand Voltage (U _{imp})	8 kV
Mechanical Durability	10 million
Maximum Mechanical Switching Frequency	300 cycles per hou
Rated Control Circuit Voltage (U _c)	DC Operation 20 60 V
Coil Consumption	Holding at Max. Rated Control Circuit Voltage 50 Hz 7 2.8 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 7 2.8 V·A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 210 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 210 V·A
Operate Time	Between Coil De-energization and NC Contact Closing 35 115 ms Between Coil De-energization and NO Contact Opening 30 110 ms Between Coil Energization and NO Contact Closing 30 100 ms
Connecting Capacity Main Circuit	Flexible with Cable End 6 16 mm Rigid Cable 6 25 mm
Connecting Capacity Auxiliary Circuit	Flexible with Cable End 0.75 2.5 mm Rigid Cable 1 4 mm
Degree of Protection	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20
Connecting Terminals (delivered in open position) Main Poles	M 6 (+,-) pozidriv 2 screws with 1x (13 x 10 mm) connector
Terminal Type	Screw Terminals
Dimensions	
Product Net Width	92 mm
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AF45-40-00 20-60V DC 4

Product Net Height 110 mm
Product Net Weight 1.42 kg

Popular Downloads	
Data Sheet, Technical Information	1SNC001003C0202
Instructions and Manuals	FPTC407734P0003

Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Categories

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

