

PRODUCT-DETAILS

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



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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

Long Description

AF45 4-pole contactors are mainly used for controlling non-inductive or slightly inductive 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 sidemounted add-on auxiliary contact blocks - Control circuit: AC or DC operated - Accessories: a wide range of accessories is available.

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

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ular Downloads
Sheet, Technical 1SNC001003C02
ctions and Manuals FPTC407734P00
ensions
ct Net Width 92 n
nct Net Depth / 119.5 n
ict Net Height 110 n
act Net Weight 1.42
hnical
per of Main Contacts
er of Main Contacts
er of Auxiliary cts NO
er of Auxiliary lots NC
ards IEC/EN 60947-1, IEC/EN 60947-4-1, UL 508, CSA C22-2 N° 14, IEC 60077 (applicable parts), IEC 60077-2 (applicable parts), EN 50155 (applicable part TR CU 001/2011 (on request), IEC 61373, For compliance confirmation of applicable parts based on your application and combination, please consinuous your ABB sales representative.
Operational Voltage Main Circuit 690
entional Free-air acc. to IEC 60947-4-1, Open Contactors q = 40 °C 100 all Current (I _{th})
Operational Current (690 V) 40 °C (1 _e) (690 V) 55 °C (690 V) 70 °C
Operational Current
Operational Power
Breaking Capacity 8 x le AC acc. to IEC 60947-4-
Making Capacity 10 x le AC acc. to IEC 60947-4-
-Circuit Protective gG Type Fuses 80 es

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 IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to UL/CSA 600 V
Rated Impulse Withstand Voltage (U _{imp})	8 kV
Mechanical Durability	10 million
Maximum Mechanical Switching Frequency	300 cycles per hour
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 mm² Rigid Cable 6 25 mm²
Connecting Capacity Auxiliary Circuit	Flexible with Cable End 0.75 2.5 mm² Rigid Cable 1 4 mm²
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
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	Closed, Shock Direction: B1 10 K40 Open, Shock Direction: B1 5 K40 Shock Direction: A 20 K40 Shock Direction: B2 15 K40 Shock Direction: C1 20 K40 Shock Direction: C2 20 K40
RoHS Status	Following EU Directive 2011/65/EU
Cartificates and Declarations /Decum	nont Number)
Certificates and Declarations (Docun	CB_CN45489

Certificates and Declarations (Document Number)	
CB Certificate	CB_CN45489
CCC Certificate	CCC_2018010304134049
CQC Certificate	CQC2018010304134049
CSA Certificate	CSA_1033838_LR056745
Declaration of Conformity - CCC	2020980304001624
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

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

Classifications	
Object Classification Code	Q
ETIM 4	EC000066 - Magnet contactor, AC-switching
ETIM 5	EC000066 - Magnet contactor, AC-switching
ETIM 6	EC000066 - Power contactor, AC switching
ETIM 7	EC000066 - Power contactor, AC switching
eClass	V11.0 : 27371003
UNSPSC	39121529

Categories

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