

A16-04-00 190V 50Hz / 220V 60Hz



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

General Information

Extended Product Type:	A16-04-00 190V 50Hz / 220V 60Hz
Product ID:	1SBL181101R3600
EAN:	3471522247360
Catalog Description:	A16-04-00 190V 50Hz / 220V 60Hz Contactor
Long Description:	A16 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 A... series 4-pole contactors are of the block type design. - Main poles and auxiliary contact blocks: 4 N.C. main poles, front and side-mounted add-on auxiliary contact blocks - Control circuit: AC operated with laminated magnet circuit - Accessories: a wide range of accessories is available.

Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900

Popular Downloads

Data Sheet, Technical Information:	1SBC100122C0202_Ch02
Instructions and Manuals:	FPTC407721P0001

Dimensions

Product Net Width:	44 mm
Product Net Depth:	74 mm
Product Net Height:	74 mm
Product Net Weight:	0.340 kg

Technical

Number of Main Contacts NO:	0
Number of Main Contacts NC:	4
Number of Auxiliary Contacts NO:	0
Number of Auxiliary Contacts NC:	0
Standards:	Devices complying with international standards IEC 947-1 / 947-4-1, and European standards EN 60 947-1 / 60 947-4-1. Electromagnetic compatibility (EMC) acc. to amendment A11 to IEC 947-1; EN 60 947-1 and amendment 2 to IEC 947-4-1

Rated Operational Voltage:	Main Circuit 690 V
Rated Frequency (f):	Supply Circuit 50 Hz Supply Circuit 60 Hz
Conventional Free-air Thermal Current (I_{th}):	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 30 A
Rated Operational Current AC-1 (I_e):	(690 V) 40 °C 30 A (690 V) 55 °C 27 A (690 V) 70 °C 23 A
Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1:	8 x I_e AC-3
Rated Making Capacity AC-3 acc. to IEC 60947-4-1:	10 x I_e AC-3
Rated Operational Current AC-15 (I_e):	(220 / 240 V) 4 A (24 / 127 V) 6 A (380 / 440 V) 3 A (500 V) 2 A (690 V) 2 A
Short-Circuit Protective Devices:	gG Type Fuses 32 A
Maximum Breaking Capacity:	cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 440 V 250 A cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 690 V 90 A
Maximum Electrical Switching Frequency:	AC-1 600 cycles per hour AC-2 / AC-4 300 cycles per hour AC-3 1200 cycles per hour
Rated Operational Current DC-13 (I_e):	(125 V) 1.1 / 138 A (24 V) 6 / 144 A (250 V) 0.55 / 133 A (48 V) 2.8 / 134 A (72 V) 2 / 144 A
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:	3600 cycles per hour
Rated Control Circuit Voltage (U_c):	50 Hz 190 V 60 Hz 220 V

Coil Consumption:	Pull-in at Max. Rated Control Circuit Voltage 50 Hz 70 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 80 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 8 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 2 W Holding at Max. Rated Control Circuit Voltage 50 Hz 8 V·A Holding at Max. Rated Control Circuit Voltage 50 Hz 2 W Average Holding Value 50 Hz 8 V·A Average Holding Value 50 Hz 2 W Average Holding Value 60 Hz 8 V·A Average Holding Value 60 Hz 2 W Average Pull-in Value 50 Hz 70 V·A Average Pull-in Value 60 Hz 80 V·A
Operate Time:	Between Coil Energization and NO Contact Closing 10 ... 26 ms Between Coil De-energization and NO Contact Opening 4 ... 11 ms Between Coil De-energization and NC Contact Closing 9 ... 16 ms Between Coil Energization and NC Contact Opening 7 ... 21 ms
Connecting Capacity Main Circuit:	Rigid Cable 1 ... 4 mm ² Flexible with Cable End 0.75 ... 2.5 mm ²
Connecting Capacity Auxiliary Circuit:	Rigid Cable 1 ... 4 mm ² Flexible with Cable End 0.75 ... 2.5 mm ²
Degree of Protection:	acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20
Connecting terminals (delivered in open position) Main poles:	M 3.5 (+,-) pozidriv 2 screws with cable clamp
Terminal Type:	Screw Terminals

Environmental

Ambient Air Temperature:	Near Contactor for Operation in Free Air (0.85 ... 1.1 Uc) -40 ... +55 °C Near Contactor for Operation in Free Air (Uc) -40 ... +70 °C Close to Contactor for Storage -60 ... +80 °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
RoHS Status:	Following EU Directive 2002/95/EC August 18, 2005 and amendment

Certificates and Declarations (Document Number)

BV Certificate:	BV_2634H07559D0
CCC Certificate:	CCC_2013010304615753 CCC_2004010309130463
CSA Certificate:	CSA_1041746
Declaration of Conformity - CE:	1SBD250802U1000
DNV Certificate:	DNV-GL_TAE00000TX
DNV GL Certificate:	DNV-GL_TAE00000TX
EAC Certificate:	EAC_RU C-FR ME77 B01010
Environmental Information:	1SBD250003E1004

GOST Certificate:	GOST_POCCFRME77B07175
Instructions and Manuals:	FPTC407721P0001
LR Certificate:	LRS_9830011E4
RINA Certificate:	RINA_ELE400503CS1
RMRS Certificate:	RMRS_0507015250
RoHS Information:	1SBD350050R1000
UL Certificate:	UL_071301E39231

Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	78 mm
Package Level 1 Length:	76 mm
Package Level 1 Height:	47 mm
Package Level 1 Gross Weight:	0.34 kg
Package Level 1 EAN:	3471522247360
Package Level 2 Units:	63 piece
Package Level 3 Units:	1220 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
UNSPSC:	39121529



