

PRODUCT-DETAILS

ASL16-30-10-81

ASL16-30-10-81 24VDC Contactor



Informations générales

Extension du type de produit	ASL16-30-10-81
Code de produit	1SBL123001R8110
EAN	3471523059610
Description courte	ASL16-30-10-81 24VDC Contactor

Description longue

ASL16 contactors are mainly used for controlling 3-phase motors and generally for controlling power circuits up to 690 V AC or 220 V DC. They are mainly used for controlling 3-phase motors, non-inductive or slightly inductive loads. The ASL... series 1-stack 3-pole contactors are of the block type design. - Main poles and auxiliary contact blocks: 3 main poles, 1 built-in auxiliary contact, front-mounted add-on auxiliary contact blocks (mechanically-linked auxiliary contacts compliant with Annex L of IEC 60947-5-1. N.C. mirror contacts compliant with Annex F of IEC 60947-4-1) - Control circuit: DC operated with solid core magnet circuit. The polarity on the coil terminals (A1+ and A2-) must be respected - Accessories: a wide range of accessories is available. ASL... contactors are fitted with low consumption DC coils and are suitable for a direct control by PLC outputs.

Commande

Quantité minimum	1 pièce
Code douanier	85364900

Downloads Préférés

Instructions et manuels	1SBC101020M9701
CAD Dimensional	2CDC001079B0201

Drawing

Dimensions

Produit Largeur Net	45 mm
Produit Longueur Net	72.5 mm
Produit Hauteur Net	68 mm
Poids net	0.28 kg

Technique

Number of Main Contacts NO	3
Number of Main Contacts NC	0
Number of Auxiliary Contacts NO	1
Number of Auxiliary Contacts NC	0
Normes et standards	IEC 60947-1 / 60947-4-1 and EN 60947-1 / 60947-4-1, UL 508, CSA C22.2 N° 14
Tension	Circuit auxiliaire 690 V Circuit principal 690 V
Fréquence assignée (f)	Circuit auxiliaire 50 / 60 Hz Circuit principal 50 / 60 Hz
Courant thermique conventionnel à l'air libre (I_{th})	acc. to IEC 60947-4-1, Open Contactors $\Theta = 40\text{ °C}$ 25 A acc. to IEC 60947-5-1, $\Theta = 40\text{ °C}$ 10 A
Courant assignée d'emploi AC-1 (I_e)	(690 V) 40 °C 24 A (690 V) 60 °C 20 A (690 V) 70 °C 16 A
Courant assignée d'emploi AC-3 (I_e)	(415 V) 60 °C 15.5 A (440 V) 60 °C 13.6 A (500 V) 60 °C 12.5 A (690 V) 60 °C 9 A (380 / 400 V) 60 °C 15.5 A (220 / 230 / 240 V) 60 °C 15.7 A
Puissance assignée d'emploi AC-3 (P_e)	(400 V) 7.5 kW (415 V) 7.5 kW (440 V) 7.5 kW (500 V) 7.5 kW (690 V) 7.5 kW (220 / 230 / 240 V) 4 kW
Courant assignée d'emploi AC-15 (I_e)	(500 V) NC 2 (500 V) 2 A (690 V) 2 A (24 / 127 V) 6 A (220 / 240 V) 4 A (400 / 440 V) 3 A
Courant assigné de courte durée admissible (I_{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 124 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 24 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 55 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 250 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 75 A for 0.1 s 140 A for 1 s 100 A
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for $I_e > 100\text{ A}$) at 440 V 155 A cos phi=0.45 (cos phi=0.35 for $I_e > 100\text{ A}$) at 690 V 90 A
Maximum Electrical Switching Frequency	(AC-1) 600 cycles per hour (AC-15) 1200 cycles per hour (AC-2 / AC-4) 300 cycles per hour (AC-3) 1200 cycles per hour (DC-13) 900 cycles per hour
Courant assignée d'emploi DC-13 (I_e)	(24 V) 6 A / 144 W (48 V) 2.8 A / 134 W (72 V) 1 A / 72 W

	(110 V) 0.55 A / 60 W (125 V) 0.55 A / 69 W (220 V) 0.27 A / 60 W (250 V) 0.27 A / 68 W
Tension assignée de d'isolement (U_i)	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V acc. to UL/CSA 600 V
Tension assignée de tenue aux chocs (U_{imp})	Circuit auxiliaire 6 kV
Maximum Mechanical Switching Frequency	3600 cycles per hour
Rated Control Circuit Voltage (U_c)	DC Operation 24 V
Durée de fonctionnement nominale	Entre la mise hors tension de la bobine et la fermeture du contact NC (normally closed) 15 ... 20 ms Entre la mise hors tension de la bobine et l'ouverture du contact NO (normally open) 13 ... 17 ms Entre la mise sous tension de la bobine et l'ouverture du contact NC 31 ... 53 ms Entre la mise sous tension de la bobine et la fermeture du contact NO 36 ... 59 ms
Connecting Capacity Main Circuit	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm ² Rigid 1/2x 0.75 ... 4 mm ²
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm ² Rigid 1/2x 0.75 ... 2.5 mm ²
Connecting Capacity Control Circuit	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm ² Rigid 1/2x 0.75 ... 2.5 mm ²
Wire Stripping Length	Auxiliary Circuit 9 mm Control Circuit 9 mm Main Circuit 9 mm
Indice de protection	acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP20 IP20
Type de borne	Screw Terminals

Technique UL/CSA

General Use Rating UL/CSA	(600 V AC) 20 A
Puissance nominale UL/CSA	(120 V AC) Single Phase 3/4 hp (200 ... 208 V AC) Three Phase 3 hp (220 ... 240 V AC) Three Phase 5 hp (240 V AC) Single Phase 2 hp (440 ... 480 V AC) Three Phase 10 hp (550 ... 600 V AC) Three Phase 10 hp
Tightening Torque UL/CSA	Auxiliary Circuit 9 in-lb Control Circuit 9 in-lb Main Circuit 9 in-lb

Environnement

Température de l'air ambiant	Close to Contactor Fitted with Thermal O/L Relay -25 ... 60 °C Close to Contactor without Thermal O/L Relay -40 ... 70 °C Close to Contactor for Storage -60 ... +80 °C
Climatic Withstand	Category B according to IEC 60947-1 Annex Q
Altitude de fonctionnement maximale autorisée	Without Derating 3000 m
REACH Declaration	2CMT2021-006202

Résistance aux chocs
selon CEI 60068-2-27

Closed, Shock Direction: B1 10 g
Closed, Shock Direction: C1 20 g
Closed, Shock Direction: C2 20 g
Open, Shock Direction: B1 5 g
Open, Shock Direction: C1 9 g
Open, Shock Direction: C2 14 g
Shock Direction: A 20 g
Shock Direction: B2 15 g

Resistance to Vibrations
acc. to IEC 60068-2-6

5 ... 300 Hz 3 g Closed position / 2 g Open position

Informations RoHS

2CMT2021-006277

Certificats et Déclarations (Numéro de document)

CB Certificate	CB_CN13475-M1
CCC Certificate	CCC_2007010309251577
CQC Certificate	CQC2007010309251577
Declaration of Conformity - CCC	2020980304001224
Déclaration de Conformité - CE	1SBD250014U1000
Declaration of Conformity - UKCA	1SBD250049U1000
Certificat GOST	GOST_POCCCNME77B07822.pdf
Certificat UL	UL_20120917_E312527_1_1
UL Listing Card	UL_E312527

Emballage

Emballage Niveau 1 Unités	1 pièce
Emballage Niveau 1 Largeur	78 mm
Emballage Niveau 1 Longueur	80 mm
Emballage Niveau 1 Hauteur	48 mm
Emballage Niveau 1 Poids	0.28 kg
Emballage Niveau 1 EAN	3471523059610
Emballage Niveau 2 Unités	40 pièce
Emballage Niveau 2 Largeur	250 mm
Emballage Niveau 2 Longueur	195 mm
Emballage Niveau 2 Hauteur	315 mm
Emballage Niveau 2 Poids	11.2 kg
Emballage Niveau 3 Unités	960 pièce

Classifications

Code de classification d'objet	Q
ETIM 4	EC000066 - Magnet contactor, AC-switching
ETIM 5	EC000066 - Magnet contactor, AC-switching
ETIM 6	EC000066 - contacteur de puissance pour commutation de courant alternatif

ETIM 7	EC000066 - Power contactor, AC switching
ETIM 8	EC000066 - Power contactor, AC switching
eClass	V11.0 : 27371018
UNSPSC	39121529
Code de catégorie granulaire IDEA (IGCC)	4763 >> Power contactor, DC switching
E-Number (Sweden)	3210525

Catégories

Produits basse tension → Produits de Contrôle, Protection et sécurité machines → Contacteurs → Contacteurs monoblocs → AS
Contactors → ASL16

