

PRODUCT-DETAILS

# TAL12-30-10 17-32V DC

## TAL12-30-10 17-32V DC Contactor



### Informations générales

Extension du type de produit	TAL12-30-10 17-32V DC
Code de produit	1SBL163061R5110
EAN	3471522313515
Description courte	TAL12-30-10 17-32V DC Contactor

Description longue	<p>TAL12 contactors are mainly used for controlling 3-phase motors and generally for controlling power circuits up to 690 V AC or 220 V DC. The contactors can also be used for many other applications such as isolation, capacitor switching, lighting. The TAL... 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 and side-mounted add-on auxiliary contact blocks - 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. TAL... contactors are fitted with low consumption DC coils and offer a large coil voltage range.</p>
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### Commande

Quantité minimum	1 pièce
Code douanier	85364900

### Popular Downloads

Fiche produit, informations techniques	1SNC001003C0202
Instructions et manuels	1SBC101003M5501

CAD Dimensional  
Drawing

2CDC001079B0201

Schéma dimensionnel

FPTE307872

## Dimensions

Produit Largeur Net	44 mm
Produit Longueur Net	97 mm
Produit Hauteur Net	78 mm
Poids net	0.52 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
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 $\Theta = 40\text{ °C}$ 28 A acc. to IEC 60947-5-1, $\Theta = 40\text{ °C}$ 16 A
Courant assignée d'emploi AC-1 ( $I_e$ )	(690 V) 40 °C 27 A (690 V) 55 °C 25 A (690 V) 70 °C 20 A
Courant assignée d'emploi AC-3 ( $I_e$ )	(415 V) 55 °C 12 A (440 V) 55 °C 12 A (500 V) 55 °C 12 A (690 V) 55 °C 9 A (380 / 400 V) 55 °C 12 A (220 / 230 / 240 V) 55 °C 12
Puissance assignée d'emploi AC-3 ( $P_e$ )	(415 V) 5.5 kW (440 V) 5.5 kW (500 V) 7.5 kW (690 V) 7.5 kW (380 / 400 V) 5.5 kW (220 / 230 / 240 V) 3 kW
Pouvoir assigné de coupure AC-3	8 x $I_e$ AC-3
Pouvoir assigné de fermeture AC-3	10 x $I_e$ AC-3
Courant assignée d'emploi AC-15 ( $I_e$ )	(500 V) 2 A (690 V) 2 A (24 / 127 V) 6 A (220 / 240 V) 4 A (380 / 400 V) 3 A
Dispositif de protection contre les courts-circuits	Auxiliary Circuit - gG Type Fuses 10 A gG Type Fuses 32 A
Courant assigné de courte durée admissible ( $I_{cw}$ )	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 120 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 28 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 280 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 70 A for 0.1 s 140 A for 1 s 100 A
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 440 V 250 A cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 690 V 100 A
Maximum Electrical	(AC-1) 600 cycles per hour

Switching Frequency	(AC-2 / AC-4) 300 cycles per hour (AC-3) 1200 cycles per hour
Courant assignée d'emploi DC-13 ( $I_g$ )	(24 V) 6 A / 144 W (48 V) 2.8 A / 134 W (72 V) 2 / 144 W (110 V) 1.1 A / 121 W (125 V) 1.1 / 138 W (220 V) 0.55 A / 121 W (250 V) 0.55 / 138 W
Tension assignée d'isolement ( $U_i$ )	acc. to IEC 60947-4-1 1000 V acc. to IEC 60947-5-1 690 V acc. to UL/CSA 600 V
Tension assignée de tenue aux chocs ( $U_{imp}$ )	8 kV
Durabilite mecanique	10 million
Maximum Mechanical Switching Frequency	3600 cycles per hour
Rated Control Circuit Voltage ( $U_c$ )	DC Operation 17 ... 32 V
Coil Consumption	Holding DC ( $U_{min} / U_{max}$ ) 2.5 / 8.5 W Pull-in DC ( $U_{min} / U_{max}$ ) 2.5 / 8.5 W
Durée de fonctionnement nominale	Entre la mise hors tension de la bobine et l'ouverture du contact NO (normally open) 10 ... 17 ms Entre la mise sous tension de la bobine et la fermeture du contact NO 50 ... 100 ms
Montage sur rail DIN	TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715
Mounting by Screws (not supplied)	2 x M4 screws placed diagonally
Connecting Capacity Main Circuit	Flexible with Cable End 0.75 ... 2.5 mm <sup>2</sup> Rigid Cable 1 ... 4 mm <sup>2</sup>
Connecting Capacity Auxiliary Circuit	Flexible with Cable End 0.75 ... 2.5 mm <sup>2</sup> Rigid Cable 1 ... 4 mm <sup>2</sup>
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
Connecting Terminals (delivered in open position) Main Poles	M 3.5 (+,-) pozidriv 2 screw with cable clamp
Type de borne	Screw Terminals

## Technique UL/CSA

General Use Rating UL/CSA	(600 V AC) 25 A
Puissance nominale UL/CSA	(200 ... 208 V AC) Three Phase 3 hp (220 ... 240 V AC) Three Phase 3 hp (440 ... 480 V AC) Three Phase 7-1/2 hp (550 ... 600 V AC) Three Phase 10 hp

## Environnement

Température de l'air ambiant	Close to Contactor Fitted with Thermal O/L Relay -25 ... 55 °C Close to Contactor without Thermal O/L Relay -40 ... 55 °C Close to Contactor without Thermal O/L Relay ( $U_{cmin}$ - $U_{cmax}$ ) according to IEC 60077 -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
Altitude de fonctionnement maximale autorisée	Without Derating 3000 m
Résistance aux chocs selon CEI 60068-2-27	Closed, Shock Direction: A 20 g Closed, Shock Direction: B1 15 g Closed, Shock Direction: C1 20 g Closed, Shock Direction: C2 14 g

Open, Shock Direction: A 10 g  
 Open, Shock Direction: B1 5 g  
 Open, Shock Direction: C1 8 g  
 Open, Shock Direction: C2 8 g  
 Shock Direction: B2 10 g

Statut RoHS

Following EU Directive 2011/65/EU

## Certificats et Déclarations (Numéro de document)

CB Certificate	CB_FR_617239B
CCC Certificate	CCC_2012010304534830
CQC Certificate	CQC2012010304534830
Declaration of Conformity - CCC	2020980304001613
Déclaration de Conformité - CE	1SBD250804U1000
Declaration of Conformity - UKCA	1SBD250821U1000
EAC Certificate	EAC_RU C-FR ME77 B01010
Certificat GOST	GOST_POCCFRME77B07175
LOVAG Certificate	LOVAG_FR04012
Certificat UL	UL-US-L312527-1102-51017991-2 UL-CA-L312527-4102-51017991-2
UL Listing Card	UL_E312527

## Emballage

Emballage Niveau 1 Unités	1 pièce
Emballage Niveau 1 Largeur	86 mm
Emballage Niveau 1 Longueur	141 mm
Emballage Niveau 1 Hauteur	51 mm
Emballage Niveau 1 Poids	0.52 kg
Emballage Niveau 1 EAN	3471522313515
Emballage Niveau 2 Unités	box 28 pièce
Emballage Niveau 2 Largeur	300 mm
Emballage Niveau 2 Longueur	245 mm
Emballage Niveau 2 Hauteur	308 mm
Emballage Niveau 2 Poids	14.56 kg
Emballage Niveau 3 Unités	336 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 : 27371003
UNSPSC	39121529

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## Catégories

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

