

PRODUCT-DETAILS

OTDC500FV02

OTDC500FV02 DC Switch-disconnector



Informations générales

Extension du type de produit	OTDC500FV02
Code de produit	1SCA158224R1001
EAN	6417019873299
Description courte	OTDC500FV02 DC Switch-disconnector
Description longue	A fully optimized two-pole DC switch-disconnector for 1500V utility-scale photovoltaic power plants covering 315-630A current range. The new design offers both a size reduction and an increase in efficiency and performance to help manufacturers adapt to the industry's rapid adoption of 1500V DC solutions. The two-pole 1500V DC concept helps manufacturers improve system efficiency, reducing switch losses by up to 35 percent. Measuring just 150mm wide and 122mm high, the OTDC range of 1500V DC switches is also up to 30 percent smaller than conventional solutions. The compact size of the new OTDC range makes it possible for manufacturers to reduce the size of combiner boxes and inverters. Main characteristics for this particular OTDC type: Disconnect single PV circuit, Approved according to IEC 60947-1, -3

Valeur Circulaire

ABB EcoSolutions	Oui
Principes du Design Circulaire - Taux de Recyclabilité	Conçu pour utiliser des ressources recyclables et réutilisables - Norme EN45555 - 59,09 %
Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658

Instructions relatives à la fin de vie	1SCC301112M0201
Environmental Product Declaration - EPD	1SCC301247D0201
Déchets destinés à l'enfouissement en décharge - Destination	Déchet non-dangereux mis en décharge, lorsqu'il n'existe aucune autre alternative à moins de 100km d'un bâtiment - Atteint
Amélioration de l'efficacité des ressources pour les clients	Efficacité du produit - Produit considéré comme plus économe en énergie par rapport à un produit similaire sur le marché. - Atteint
REACH Declaration	1SCC301240D0201
Informations RoHS	1SCC301239D0201

Eco Transparence

Environmental Product Declaration - EPD	1SCC301247D0201
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Commande

Quantité minimum	1 pièce
Code douanier	85353010
Pays d'origine	Finland (FI)

Downloads Préférés

Fiche produit, informations techniques	1SCC301022C0201
Instructions et manuels	1SCC301099M0201 9AKK107492A6191
Mechanical Drawings	OTDC315-630FV02_stp OTDC315-630FV02_igs 1SCC307662F0001 1SCC307663F0001
Wiring Diagram	1SCC301030K0201
Environmental Product Declaration - EPD	1SCC301247D0201
Instructions relatives à la fin de vie	1SCC301112M0201

Dimensions

Dimensions Cadre du produit	M
Produit Largeur Net	156.5 mm 6.2 in
Produit Hauteur Net	211 mm 8.3 in
Produit Longueur Net	135 mm 5.3 in
Poids net	3.6 kg 7.9 lb

Technique

Configuration Connexion	Single circuit 2a, 2b
Rated Operational Current DC-21B (I_e)	(1500 V) 500 A
Rated Operational Current DC-22B	(1500 V) 400 A
Rated Operational Current DC-PV1	(1500 V) 500 A
Rated Operational Current DC-PV2	(1500 V) 500 A
Courant thermique conventionnel à l'air libre (I_{th})	$q = 40\text{ °C}$ 500 A
Conventional Thermal Current (I_{the})	Fully Enclosed 500 A
Tension assignée de tenue aux chocs (U_{imp})	12 kV
Tension assignée d' isolement (U_i)	1500 V
Tension	1500 V
Rated Short-Circuit Making Capacity (I_{cm})	(1500 V DC) 10 kA
Courant assigné de courte durée admissible (I_{cw})	(1500 V DC) 10 kA for 1 s 10 kA
Power Loss	at Rated Operating Conditions per Pole 18...20 W
Degré de pollution	3
Handle Type	Handle and shaft not included
Positive Opening Operation Torque (Direct Opening Action)	11 ... 19 N·m
Diamètre d'arbre	12 mm 0.47 in
Switches Operating Mechanism	Mechanism at the End of the Switch 02 (Left Side)
Position of Line Terminals	Top In - Bottom Out Bottom In - Top Out
Mode de fonctionnement	Front Operated
Normes et standards	IEC 60947-1, -3
Fonctions spéciales	No
Type de montage	Base mounting
Number of Circuits	1
Nombre de pôles	2
Indice de protection	Front IP20
Type de borne	Lug terminals
Terminal Width	30 mm 1.2 in
Couple de serrage	Cable Lug 50 ... 75 N·m
Durabilité mécanique	10000 cycle
Utilization	Photovoltaic
Utilization Category	Switching of resistive loads, including moderate overloads - occasional actuation (DC-21B) Switching of mixed resistive and inductive loads, including moderate overloads

(i.e. shunt motors) - occasional actuation (DC-22B)
 Switching of single PV string(s) without reverse and overcurrents (DC-PV1)
 Switching of several PV string(s) with reverse and overcurrents (DC-PV2)

Technique UL/CSA

Couple de serrage

Cable Lug 50 ... 75 N·m

Environnement

Statut RoHS

Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

Certificats et Déclarations (Numéro de document)

CCC Certificate	CQC2019010302206498
Déclaration de Conformité - CE	1SCC301227D2701
Declaration of Conformity - UKCA	1SCC301313D0201
DNV GL Certificate	1SCC301231D0201
Environmental Product Declaration - EPD	1SCC301247D0201
Instructions et manuels	1SCC301099M0201 9AKK107492A6191
REACH Declaration	1SCC301240D0201
Informations RoHS	1SCC301239D0201

Emballage

Emballage Niveau 1 Unités	box 1 pièce
Emballage Niveau 1 Largeur	220 mm 8.7 in
Emballage Niveau 1 Longueur	250 mm 9.8 in
Emballage Niveau 1 Hauteur	210 mm 8.3 in
Emballage Niveau 1 Poids	3.8 kg 8.4 lb
Emballage Niveau 1 EAN	6417019873299

Classifications

Code de classification d'objet	Q
ETIM 5	EC000216 - Switch disconnecter
ETIM 6	EC000216 - sectionneur de charge
ETIM 7	EC000216 - Switch disconnecter
ETIM 8	EC000216 - Switch disconnecter
ETIM 9	EC000216 - Switch disconnecter (low voltage)

eClass

V11.1 : 27371403

Catégorie DEEE

5. Small Equipment (No External Dimension More Than 50 cm)

Catégories

Produits basse tension → Interrupteurs → DC Switch-Disconnectors



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