

PRODUCT-DETAILS

OTDC600UFV22

OTDC600UFV22 PV Disconnect Switch



Informations générales

Extension du type de produit	OTDC600UFV22
Code de produit	1SCA158305R1001
EAN	6417019874104
Description courte	OTDC600UFV22 PV Disconnect Switch
Description longue	A fully optimized four-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 four-pole 1500V DC concept helps manufacturers improve system efficiency, reducing switch losses. The compact size of the new OTDC range makes it possible for manufacturers to reduce the size of combiner boxes and inverters. Main characteristics of this particular OTDC type: Disconnect double PV circuit, Approved according to UL98B and 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	1SCC301112M0201

fin de vie

Environmental Product Declaration - EPD	1SCC301247D0201
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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
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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
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REACH Declaration	1SCC301240D0201
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Informations RoHS	1SCC301239D0201
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Eco Transparence

Environmental Product Declaration - EPD	1SCC301247D0201
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Commande

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

Fiche produit, informations techniques	1SCC301022C0201
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Instructions et manuels	1SCC301099M0201 9AKK107492A6191
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Mechanical Drawings	OTDC250-600UFV22_stp OTDC250-600UFV22_igs 1SCC307664F0001 1SCC307665F0001
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Wiring Diagram	1SCC301035K0201
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Environmental Product Declaration - EPD	1SCC301247D0201
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Instructions relatives à la fin de vie	1SCC301112M0201
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Dimensions

Dimensions Cadre du produit	M
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Produit Largeur Net	255.5 mm 10.1 in
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Produit Hauteur Net	211 mm 8.3 in
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Produit Longueur Net	135 mm 5.3 in
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Poids net	7.7 kg 16.9 lb
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Technique

Configuration Connexion	Double circuit 4a, 4c
Rated Operational Current DC-21B (I_e)	(1500 V) 630 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})	$q = 40\text{ °C}$ 630 A
Conventional Thermal Current (I_{the})	Fully Enclosed 630 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
Protection Type	Circuit breaker
Power Loss	at Rated Operating Conditions per Pole 30...32 W
Degré de pollution	3
Handle Type	Handle and shaft not included
Positive Opening Operation Torque (Direct Opening Action)	18 ... 30 N·m
Diamètre d'arbre	12 mm 0.47 in
Switches Operating Mechanism	Mechanism Between the Poles 22 (Between the Poles)
Position of Line Terminals	Top In - Bottom Out Bottom In - Top Out
Mode de fonctionnement	Front Operated
Normes et standards	UL98B and IEC 60947-1, -3
Fonctions spéciales	No
Type de montage	Base mounting
Number of Circuits	2
Nombre de pôles	4
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 Cable Lug 443 ... 664 lbf·in
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

Maximum Operating Voltage	1500Vdc, UL 98B
Ampere Rating	600A, 1500Vdc, UL98B
Short-Circuit Current Rating (SCCR)	Any UL Listed Fuses or Circuit-Breakers 10 kA
Couple de serrage	Cable Lug 50 ... 75 N·m Cable Lug 443 ... 664 lbf·in

Environnement

Statut RoHS	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
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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
Certificat UL	UL certificate OTDC250-1000UF

Emballage

Emballage Niveau 1 Unités	box 1 pièce
Emballage Niveau 1 Largeur	270 mm 10.6 in
Emballage Niveau 1 Longueur	310 mm 12.2 in
Emballage Niveau 1 Hauteur	200 mm 7.9 in
Emballage Niveau 1 Poids	8 kg 17.5 lb
Emballage Niveau 1 EAN	6417019874104

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)
UNSPSC	39122233
eClass	V11.1 : 27371403
Catégorie DEEE	5. Small Equipment (No External Dimension More Than 50 cm)

Catégories

Produits basse tension → Interrupteurs → DC Switch-Disconnectors

