



Technical-Sales Information

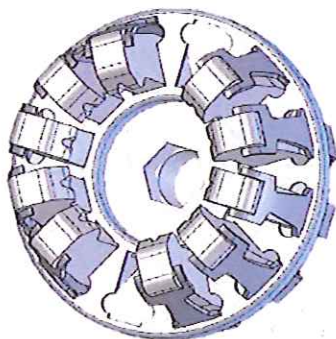
Number 1VCD850159
Division: Electrification Products
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Date: March 24th, 2017
Title: Introduction of new design tulip contacts on VD4 with P1 poles

Summary:

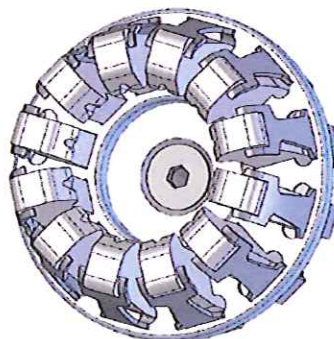
1. Introduction
2. Benefits
3. Pricelist
4. Availability

1. Introduction

The aim of the following Technical Information is to notify the sales network and customers the introduction of the new design tulip contact as standard supply on VD4 breakers, withdrawable execution, rated voltage 12 kV and 17,5 kV, 1250 A rated current, phase distance 150 mm and breaking capacity up to 32 kA, equipped with P1 poles, all withdrawable versions.



Old design tulip contact



New design tulip contact

ABB S.p.A. Electrification Products Division

Unità Operativa Sace-MV

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Sede legale:
Registered Office:

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I-20124 Milano

An ABB Group company

Capitale Sociale / Share Capital: € 107.000.000 - i.v. / fully paid up
P. IVA / VAT: IT11988960156
Codice Fiscale / Fiscal Code: 00736410150
Registro of the Imprese of Milano / Official Company Book: 00736410150
R.E.A. Milano: 1513225



2. Benefits

The new design of tulip contacts represents the opportunity to unify the supply with the tulip contacts type currently used on withdrawable VD4 equipped with other poles.

The interchangeability with the previous design tulip contacts is guaranteed.

See ANNEX A for details on type testing.

This new design is also certified according to Standards IEC 62271-100/200.

3. Pricelist

No deviations due to this introduction are expected.

4. Availability

The new design tulip contact will be introduced in mass production for order loaded starting from April, 17th 2017.

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ANNEX A

Introduction of new design tulip contacts on VD4 with P1 poles 12-17.5kV, 1250A, 16-31.5kA

- **Dielectric Test**
 - Fixed version:
 - Not Applicable.
 - Withdrawable version:
 - OEM no needs to repeat the test; dielectric performance of new completion are comparable with existing version.
 - Test valid for a breaker with the actual design is still valid.
 - Withdrawable version with PowerCube:
 - OEM no needs to repeat the test; dielectric performance of new completion are comparable with existing version.
 - Test valid for a breaker with the actual design is still valid.
- **Temperature rise test & measurement of the resistance of the main circuit**
 - Fixed version:
 - Not Applicable
 - Withdrawable version with OEM cassette/panel:
 - OEM no needs to repeat the test; test already performed by ABB in UniGear panel.
 - Due to the fact that the thermal performances of the breaker equipped with new completion are better than the thermal performances with the actual design, a temperature rise test valid for a breaker with the actual design is still valid.
 - Withdrawable version with PowerCube:
 - OEM no needs to repeat the test; test already performed by ABB in UniGear panel.
 - Due to the fact that the thermal performances of the breaker equipped with new completion are better than the thermal performances with the actual design, a temperature rise test valid for a breaker with the actual design is still valid.
- **STC test**
 - Fixed version:
 - Not Applicable
 - Withdrawable version:
 - OEM no needs to repeat the test.
 - New solution has better short circuit performance of existing solution.



- **Making & Breaking test / single phase tests; double earth fault test**

- Fixed version:
 - Not Applicable
- Withdrawable version:
 - The introduction of the new completion does not affect the pole and VI behavior. Therefore, the test valid for a breaker with the actual design is still valid.
- Withdrawable version with PowerCube:
 - The introduction of the new completion does not affect the pole and VI behavior. Therefore, the test valid for a breaker with the actual design is still valid.

- **Mechanical Lifetime test**

- Fixed version:
 - The introduction of the new completion does not affect the mechanical performance of frame and actuator. Therefore, the test valid for a breaker with the actual design is still valid.
- Withdrawable version:
 - The introduction of the new completion does not affect the mechanical performance of frame and actuator. Therefore, the test valid for a breaker with the actual design is still valid.
- Withdrawable version with PowerCube:
 - The introduction of the new completion does not affect the mechanical performance of frame and actuator. Therefore, the test valid for a breaker with the actual design is still valid.

- **Capacitive switching**

- Fixed version:
 - Not Applicable
- Withdrawable version:
 - The introduction of the new completion does not affect the pole and VI behavior. Therefore, the test valid for a breaker with the actual design is still valid.
- Withdrawable version with PowerCube:
 - The introduction of the new completion does not affect the pole and VI behavior. Therefore, the test valid for a breaker with the actual design is still valid.

- **Mechanical compatibility / Rack In-Out Test**

- Fixed version
 - Not Applicable
- Withdrawable version
 - Test already performed by ABB in UniGear panel so no need to repeat.
- Withdrawable version with PowerCube:
 - Test already performed by ABB in UniGear panel so no need to repeat.