



Certificat de conformité / Certificate of conformity N° 039-14BT

Délivré à / Issued to : SCHNEIDER ELECTRIC INDUSTRIES SAS
35 rue Joseph Monier
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FRANCE

Pour le produit / For the product : Ensemble d'appareillage à basse tension / Low-voltage switchgear and controlgear assembly

Référence(s) / Reference(s) : Prisma iPM, system L (wall-mounted)
Prisma iPM system M (floor-standing)

Selon dossier d'identification / According to Identification File : DI_MVS, Rev v1 -14/10/2013

Marque commerciale / Trademark : Schneider Electric

Fabricant / Manufacturer : SCHNEIDER ELECTRIC SA

Informations complémentaires / Additional information : voir annexe / see Annex

Document(s) de référence / Reference document(s) :

IEC 61439-1 (ed. 2.0, 2011-08), IEC 61439-2 (ed. 2.0, 2011-08) :

- § 10.2 Résistance des matériaux et des parties / Strength of materials and parts
- § 10.3 Degré de protection procuré par les ensembles / Degree of protection of assemblies
- § 10.4 Distances d'isolement et lignes de fuite / Clearances and creepage distances
- § 10.5 Protection contre les chocs électriques et intégrité du circuit de protection / Protection against electric shock and integrity of protective circuit
- § 10.6 Intégration des appareils de connexion et des composants / Incorporating of switching devices and components
- § 10.7 Circuits électriques internes et connexions / Internal electrical circuits and connections
- § 10.8 Bornes pour conducteurs externes / Terminals of external conductors
- § 10.9 Propriétés diélectriques / Dielectric properties
- § 10.10 Vérification de l'échauffement / Verification of temperature rise
- § 10.11 Tenue aux courts-circuits / Short-circuit withstand strength
- § 10.12 Compatibilité électromagnétique / Electromagnetic compatibility
- § 10.13 Fonctionnement mécanique / Mechanical operation

Caractéristiques certifiées / Certified characteristics :

voir tableaux en annexe / see tables in Annex

Document(s) pris en compte (s) / Relevant document(s) :

Rapport (s) d'essai / Test report (s) : N° 201308773_001 du / dated 20/12/2013

(émis par L2E - F01, laboratoire homologué ASEFA / issued by L2E - F01, as ASEFA approved laboratory)

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Fontenay-aux-Roses,
Le / On : 12/06/2014

Le Président de l'ASEFA / The Chairman of ASEFA,

Marie-Elisabeth d'ORNANO

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CARACTÉRISTIQUES DE L'ENSEMBLE / CHARACTERISTICS OF THE ASSEMBLY

Prisma iPM: system L

General characteristics

The switch and distribution boards design is suitable for indoor mounting. The Prisma iPM system L system is a modular system.

Enclosures equipped with rear uprights with threaded holes for mounting distribution system and functional units.

Two families of frames:

- One family of single piece enclosures including rear, side and top plates. The front is equipped with 2 support uprights for front plates.
 - Another one, based on dismantled enclosure of rear, side and top plates that can be joined width wise and depth wise. The front is equipped with a support frame for front plates.
- The front can be equipped with plain or transparent door based on installation requirements.
The degree of protection is IP30, IP31, IP43 and IP54.

Dimensions of the enclosures

Wall-mounted enclosure dimensions

- Height:
8 heights from 300 to 1850 mm
- Width:
Enclosure: 600 mm
Cable duct: 300 mm
- Depth:
235 mm / 305 mm

Main distribution

Rear busbars

- Mounted directly in the rear of wall-mounted or free-standing enclosures
- Available in 3-pole or 4-pole versions with ratings from 160 to 400 A.
- Available in several lengths, the busbars can be cut to length as required.
- Busbar support numbers is defined according to Icw withstand requirements

Multi-stage busbars

- For installation in the vertical and horizontal position.
- Available in 3-pole or 4-pole versions with ratings from 160 to 630 A.
- Available in several lengths, the busbars can be cut to length as required.
- Busbar support numbers is defined according to Icw withstand requirements

Secondary distribution

Multiclip distribution block

- Available in 3-pole or 4-pole versions for 200 A rating
- Supplied fully mounted with pre-stripped copper connections.

Polybloc distribution block

- For installation directly downstream of Easypact circuit-breakers or on modular rails.
- Available in 3-pole or 4-pole versions for 160 and 250 A ratings.
- Accessories are available for connection of 35 mm² cables.

Functional units

Device installation

- Mounting plates are used to install devices in the enclosures.
- Front plates provide the necessary degree of protection (IP).

Prisma iPM, system L (wall-mounted)

Tension assignée d'emploi / Rated operational voltage (Ue)	Circuit principal / <i>Main circuit</i>	jusqu'à / <i>up to</i> 690 V
Fréquence assignée / Rated frequency		50/60 Hz
Courant assigné / Rated current (In)	A la température ambiante moyenne de 35°C / <i>At average ambient temperature 35°C</i>	jusqu'à / <i>up to</i> 630 A
Propriétés diélectriques / Dielectric properties	Degré de pollution / <i>Pollution degree</i> Groupe de matériau / <i>Material group</i> Catégorie de surtension / <i>Overvoltage category</i>	3 IIIa IV
Tension assignée d'isolement / Rated insulation voltage (Ui)	Circuit principal / <i>Main circuit</i>	1000 V
Tension assignée de tenue aux chocs / Rated impulse withstand voltage (Uimp)	Circuit principal / <i>Main circuit</i>	8 kV
Tenue aux courts-circuits / Short-circuit withstand strength		
Courant assigné de courte durée admissible (3 phases) / <i>Rated short-time withstand current (3 phases) - Icw</i>	Jeu de barres latéral / <i>Side busbar</i>	25 kA / 1s
Courant assigné de crête admissible / <i>Rated peak withstand current (Ipk)</i>	Jeu de barres latéral / <i>Side busbar</i>	53 kA
Courant assigné de court-circuit conditionnel (3 phases) / <i>Rated conditional short-circuit current (3 phases) - Icc</i>	Voir rapport d'essai / <i>See Test Report</i>	jusqu'à / <i>up to</i> 25 kA / 415 V
Distances d'isolement / Clearances		> 8 mm
Lignes de fuite / Creepage distances		> 16 mm
Fonctionnement mécanique / Mechanical operation	Nombre de cycles de manoeuvres / <i>Number of operating cycles</i>	200
Degré de protection / Degree of protection		IP30, IP31, IP43, IP54
Disjoncteurs / Circuit-breakers		Easypact CVS, Easypact EZC.

CARACTÉRISTIQUES DES ENSEMBLES / CHARACTERISTICS OF THE ASSEMBLIES**Prisma iPM: system M****General characteristics**

The switch and distribution boards design is suitable for indoor mounting. The Prisma iPM system M system is a modular system.

A metal frame consisting of sub-frames are made of metal sections and cross-members made of folded sheet metal. The device mounting plates, current distribution components and cover panels are secured directly to these frames.

The frames can be joined width wise and depth wise. The frame is complete covers with metal plates (rear, side and top plates). The front is equipped with plain or transparent door or a support frame for front plates.

The degree of protection is IP30 - 31 or IP54 with door and IP30 with cover frame.

Dimensions of the enclosures

Height: 1 height only (2000 mm)

Width: Device compartment: 600 mm or 800 mm

Busbar compartment: 200 mm (W600 + 200) or 300 mm

Cable compartment: 300 mm

Depth: 400 mm or 600 mm

Main distribution**Linery busbars**

- Installed in a special side compartment or at the rear of the cubicle
- 5 available ratings (630 A, 800 A, 1000 A, 1250 A, 1600 A)
- The busbars are aluminium sections supplied in unit lengths of 1700 mm
- A clamping system makes it possible to connect devices without drilling holes
- The bars are secured via insulated supports on which the numbers depend on Icw withstand required by the installation.

Flat busbars

- Installed horizontally at the top or bottom dedicated zone of the cubicle (3m height)
- Installed vertically in a dedicated framework (width 200mm or 300mm)
- Made up of 5 or 10 mm thick flat copper bars, with cross-sections depending on the installation rating
- The vertical bars have holes for easy connection of devices
- The bars are secured via insulated supports on which the numbers depend on Icw withstand required by the installation.

Secondary distribution**Multiclip distribution block**

- Available in 3-pole or 4-pole versions for 200 A rating. In version 4 pole for the rating 80 A and 63 A
- Installed with upper connections without insulating.

Functional units**Device installation**

- Mounting plates are used to install devices in the enclosures
- Front plates provide the necessary degree of protection (IP).

PE conductors**Vertical PE linery**

- Installed generally in cable compartment
- Fixed on frame with 4 supports

Vertical PE flat busbars

- Installed generally in cable compartment
- Fixed on frame with 4 supports

Horizontal PE flat busbars

- Flat busbar is fixed on the top panel or on the floor panel (in opposite of main horizontal busbar) with supports.

Connection between PE flat busbars

- A Copper connection is used to connect horizontal PE busbar and vertical PE busbar or 2 horizontal busbar each other.

Prisma iPM, system M (floor-standing)

Tension assignée d'emploi / Rated operational voltage (Ue)	Circuit principal / <i>Main circuit</i>	jusqu'à / <i>up to 690 V</i>
Fréquence assignée / Rated frequency		50/60 Hz
Courant assigné / Rated current (In)	A la température ambiante moyenne de 35°C / <i>At average ambient temperature 35°C</i>	jusqu'à / <i>up to 4000 A</i>
Propriétés diélectriques / Dielectric properties	Degré de pollution / <i>Pollution degree</i> Groupe de matériau / <i>Material group</i> Catégorie de surtension / <i>Overvoltage category</i>	3 IIIa IV
Tension assignée d'isolement / Rated insulation voltage (Ui)	Circuit principal / <i>Main circuit</i>	1000 V
Tension assignée de tenue aux chocs / Rated impulse withstand voltage (Uimp)	Circuit principal / <i>Main circuit</i>	12 kV
Tenue aux courts-circuits / Short-circuit withstand strength		
Courant assigné de courte durée admissible (3 phases) / Rated short-time withstand current (3 phases) - Icw	Jeu de barres plat horizontal / <i>Horizontal flat busbar</i> Jeu de barres plat vertical / <i>Vertical flat busbar</i> Jeu de barres Linergy / <i>Linerger busbar</i>	jusqu'à / <i>up to 85 kA / 1 s</i> jusqu'à / <i>up to 85 kA / 1 s</i> jusqu'à / <i>up to 85 kA / 1 s</i>
Courant assigné de crête admissible / Rated peak withstand current (Ipk)	Jeu de barres plat horizontal / <i>Horizontal flat busbar</i> Jeu de barres plat vertical / <i>Vertical flat busbar</i> Jeu de barres Linergy / <i>Linerger busbar</i>	jusqu'à / <i>up to 187 kA</i> jusqu'à / <i>up to 187 kA</i> jusqu'à / <i>up to 187 kA</i>
Courant assigné de court-circuit conditionnel (3 phases) / Rated conditional short-circuit current (3 phases) - Icc	Voir rapport d'essai / <i>See Test Report</i>	jusqu'à / <i>up to 65 kA / 415 V</i>
Distances d'isolement / Clearances		> 14 mm
Lignes de fuite / Creepage distances		> 16 mm
Fonctionnement mécanique / Mechanical operation	Nombre de cycles de manœuvres / <i>Number of operating cycles</i>	200
Degré de protection / Degree of protection		IP30, IP31, IP54
Disjoncteurs / Circuit-breakers		Easypact CVS, Easypact EZC, Easypact MVS.