#### 外部委託業者の募集

References: IO/24/OT/70001176/VML

"Electrical and lightning protection works (minor electrical works)"

(軽微な雷保護電気工事)

IO 締め切り 2024 年 11 月 13 日(水)

#### ○概要

本概要の目的は、今後数週間内に競争入札プロセスを開始するという国際熱核融合実験炉(ITER)機構の意向を事前に通知することです。本概要は、ITER機構に関する基本的な情報、入札の技術的範囲、および ITER機構に対する電気検査サービスの提供に関する入札プロセスの詳細を提供します。

#### ○はじめに

本事前情報通知 (PIN) は、作業契約の入札授与および実行につながる公開入札調達プロセスの最初のステップです。作業の範囲は、年間タスクオーダーによって開始されます。本文書の目的は作業範囲と入札プロセスに関する技術的な内容の基本的な要約を提供することです。国内機関は、今後の入札に先立ち、これらのサービスを提供できる企業、機関、またはその他の団体に対して、入札の詳細情報を事前に通知してください。

#### ○背景

ITER は平和利用の核融合発電の科学的および技術的な実現可能性の実証を目的とした、国際共同研究開発プロジェクトです。ITER 機構の 7 つのメンバーは、;欧州連合 (EURATOM が代表)、日本、中華人民共和国、インド、大韓民国、ロシア連邦、および米国です。

ITER の敷地はフランス南東部のブーシュデュローヌ地区にあり、ITER 本社(HQ)もあるフランス CEA サン・ポール・レ・デュランス に近いところに位置しています。詳細については、ITER のウェブサイト http://www.iter.org を参照して下さい。

#### ○作業範囲

現在の入札プロセスは、軽微な雷保護電気工事の枠組み契約を確立することを目的としています。

作業範囲およびすべての要件は、技術仕様書「ITER\_D\_ BGNV2Y v1.2」(このPINに添付されています)で定義されています。

#### ○調達プロセスと目的

目的は、競争入札プロセスを通じて供給契約を落札することです。 この入札のために選択された調達手続きは<u>公開入札</u>手続きと呼ばれます。 オープン入札手順は、次の4つの主要なステップで構成されています。

▶ ステップ 1-事前情報通知 (PIN)

事前情報通知は公開入札プロセスの第一段階です。IO は、は、国内機関に対し、今後の入札に関する情報を公開し、企業、機関、またはその他の団体に対して入札の機会を事前に知らせるよう正式に依頼します。 興味のある入札者は、以下の調達タイムテーブルに示された期日までに、表明書(別紙I)をメールで提出して下さい。

#### ▶ ステップ 2-入札への招待

PIN の発行から 14 作業日以内に、入札招請(ITT)が公示されます。この段階では、PIN を確認した興味のある入札者が入札書類を取得し、入札指示に従って提案書を準備し提出することができます。

#### ▶ ステップ 3-入札評価プロセス

入札者の提案書は、ITER機関の公平かつ専門的な技術評価委員会によって評価されます。 入札者は、技術範囲に沿った作業を行うための技術的適合性を示す詳細を提供する必要があります。また、入札招請(ITT)に記載された特定の基準に従う必要があります。

#### ▶ ステップ 4-落札

サービス契約は、入札招請(ITT)で説明された評価基準および方法論に基づいて、最もコストパフォーマンスの良い提案に対して授与されます。

#### ○概略日程

概略日程は以下の通りです:

マイルストーン	暫定日程
事前指示書 (PIN) の発行	2024年10月25日
関心表明フォームの提出	2024年11月13日
iPROC での入札への招待 (ITT) の発行	2024年11月20日
明確化のための質問(もしあれば)と回答締め切り	2024年12月13日
入札提出	2024年1月15日
入札評価と契約授与	2025年2月
枠組み契約調印	2025年3月
最初のタスクオーダー調印	2025年7月
作業開始	2025年8月1日

#### ○契約期間と実行

ITER機構は2025年2月ごろ契約を授与する予定です。予想される契約期間は最初の4年(固定期間)とオプショナルとして2つの1年のオプション期間があります。

ITERでの作業に使われる言語は英語です。プロレベルの流暢さが求められます(話す、書く両方)。

#### ○経験

入札者は、付属の技術仕様書に詳細に記載された必要な経験を有し、専門のスタッフとチームで作業 に取り組む必要があります。

#### ○候補

参加は、個人またはグループ/コンソーシアムに参加するすべての法人に開放されます。法人とは、法 的権利及び義務を有し、ITER 加盟国内に設立された個人、企業又は機構をいいます。ITER 加盟国 は欧州連合(EURATOM メンバー)、日本、中華人民共和国、インド共和国、大韓民国、ロシア連邦 、アメリカ合衆国です。

法人は、単独で、またはコンソーシアムパートナーとして、同じ契約の複数の申請または入札に参加することはできません。共同事業体は、恒久的な、法的に確立されたグループ又は特定の入札手続のために非公式に構成されたグループとすることができます。

コンソーシアムのすべての構成員(すなわち、リーダーと他のすべてのメンバー)は、ITER 機構に対して連帯して責任を負います。

コンソーシアムとして許可されるために、その点で含まれる法人はコンソーシアムの各メンバーをまとめる権限をもつリーダーをもたなければなりません。このリーダーはコンソーシアムの各目メンバーのために責任を負わなければなりません。

指名されたコンソーシアムのリーダーは、入札段階で、コンソーシアムのメンバーの構成を説明する 予定です。その後、候補者の構成は、いかなる変更も ITER 機構に通知することなく変更してはなり ません。かかる認可の証拠は、すべてのコンソーシアムメンバーの法的に授権された署名者が署名し た委任状の形式で、しかるべき時期に IO に提出しなければなりません。

どのコンソーシアムメンバーも IPROC に登録する必要があります。

【※ 詳しくは添付の英語版技術仕様書「Electrical and lightning protection works (minor electrical works)」をご参照ください。】

ITER 公式ウェブ <a href="http://www.iter.org/org/team/adm/proc/overview">http://www.iter.org/org/team/adm/proc/overview</a> からもアクセスが可能です。

「核融合エネルギー研究開発部門」の HP: http://www.fusion.qst.go.jp/ITER/index.html では ITER 機構からの各募集 (IO 職員募集、IO 外部委託、IO エキスパート募集) を逐次更新しています。ぜひご確認ください。

# イーター国際核融合エネルギー機構からの外部委託 に関心ある企業及び研究機関の募集について

# <ITER 機構から参加極へのレター>

以下に、外部委託の概要と要求事項が示されています。参加極には、提案された業務に要求される能力を有し、入札すべきと考える企業及び研究機関の連絡先の情報を ITER 機構へ伝えることが求められています。このため、本研究・業務に関心を持たれる企業及び研究機関におかれましては、応募書類の提出要領にしたがって連絡先情報をご提出下さい。



# PRIOR INDICATIVE NOTICE (PIN)

# **OPEN TENDER SUMMARY**

for

OT /24/70001176/VML

"Electrical and lightning protection works (minor electrical works)"

#### **Abstract**

The purpose of this summary is to provide prior notification of the IOs intention to launch a competitive Open Tender process in the coming weeks. This summary provides some basic information about the ITER Organisation, the technical scope for this tender, and details of the tender process for the provision of electrical and lightning protection works to the ITER Organization.

## 1 Introduction

This Prior Indicative Notice (PIN) is the first step of an Open Tender Procurement Process leading to the award and execution of a Framework Contract. The scope of work is then triggered by annual Task Order. The purpose of this document is to provide a basic summary of the technical content in terms of the scope of work and the tendering process.

The Domestic Agencies are invited to publish this information in advance of the forthcoming tender giving companies, institutions or other entities that are capable of providing these services prior notice of the tender details.

# 2 Background

The ITER project is an international research and development project jointly funded by its seven Members being the European Union (represented by EURATOM), Japan, the People's Republic of China, India, the Republic of Korea, the Russian Federation and the USA. ITER is being constructed in Europe at St. Paul—Lez-Durance in southern France, which is also the location of the headquarters (HQ) of the ITER Organization (IO).

For a complete description of the ITER Project, covering both organizational and technical aspects of the Project, visit <a href="https://www.iter.org">www.iter.org</a>.

# 3 Scope of Work

The present tender process is aiming to set up a Framework Contract for execution of electrical and lightning protection works (minor electrical works).

The scope of work and all requirements are defined in the technical specifications ref. ITER\_D\_BGNV2Y v1.2 (attached to this PIN).

# 4 Procurement Process & Objective

The objective is to award a Service Contract through a competitive bidding process.

The Procurement Procedure selected for this tender is called the **Open Tender** procedure.

The Open Tender procedure is comprised of the following four main steps:

## > Step 1- Prior Indicative Notice (PIN):

The Prior Indicative Notice is the first stage of the Open Tender process. The IO formally invites the Domestic Agencies to publish information about the forthcoming tender in order to alert companies, institutions or other entities about the tender opportunity in advance. <u>Interested tenderers are kindly requested to return the expression of interest form (Annex I) by e-mail by the date indicated in the procurement timetable below.</u>

# > Step 2 - Invitation to Tender (ITT):

Within 14 days of the publication of the Prior Indicative Notice (PIN), the Invitation to Tender (ITT) will be advertised. This stage allows interested bidders, who have seen the PIN, to obtain the tender documents and to prepare and submit their proposals in accordance with the tender instructions.

#### ➤ Step 3 – Tender Evaluation Process:

Tenderers' proposals will be evaluated by an impartial, professionally competent technical evaluation committee of the ITER Organization. Tenderers must provide details demonstrating their technical compliance to perform the work in line with the technical scope and in accordance with the particular criteria listed in the invitation to tender (ITT).

# ➤ Step 4 – Contract award:

A service contract will be awarded on the basis of best value for money according to the evaluation criteria and methodology described in the Invitation to tender (ITT).

#### **Procurement Timetable**

The tentative timetable is as follows:

Milestone	Date
Publication of the Prior Indicative Notice (PIN)	25 October 2024
Submission of expression of interest form	13 November 2024
Invitation to Tender (ITT) advertisement	20 November 2024
Clarification Questions (if any) and Answers deadline	13 December 2024
Tender Submission	15 January 2025
Tender Evaluation & Contract Award	February 2025
Framework Contract Signature	March 2025

1 <sup>st</sup> Task Order signature	July 2025
Start of the work	1 August 2025

# 5 Quality Assurance Requirements

Prior to commencement of any work under this Contract, a "Quality Plan" shall be produced by the selected Contractor and submitted to the IO for approval, describing how they will implement the ITER Procurement Quality Requirements.

## 6 Contract Duration and Execution

The ITER Organization shall award a Framework Contract in February 2025. The resulting Contract will be for an initial period of 4 years (firm part) and 1 additional period of 2 years.

The working language of ITER is English, and a fluent professional level is required (spoken and written).

# 7 Experience

The tenderer shall form a team of the dedicated staff who shall have the required experience as detailed in the attached technical specifications in order to provide the required support service.

#### 8 Candidature

Participation is open to all legal entities participating either individually or in a grouping / consortium. A legal entity is an individual, company, or organization that has legal rights and obligations and is established within an ITER Member State.

Legal entities cannot participate individually or as a consortium partner in more than one application or tender of the same contract. A consortium may be a permanent, legally-established grouping, or a grouping which has been constituted informally for a specific tender procedure. All members of a consortium (i.e. the leader and all other members) are jointly and severally liable to the ITER Organization.

In order for a consortium to be acceptable, the individual legal entities included therein shall have nominated a leader with authority to bind each member of the consortium, and this leader shall be authorized to incur liabilities and receive instructions for and on behalf of each member of the consortium.

It is expected that the designated consortium lead will explain the composition of the consortium members in a covering letter at the tendering stage. Following this, the Candidate's composition must not be modified without notifying the ITER Organization of any changes. Evidence of any such authorization shall be submitted to the IO in due course in the form of a power of attorney signed by legally authorized signatories of all the consortium members.

# 9 Sub-contracting Rules

Sub-contracting is not allowed under this Contract.



# IDM UID BGNV2Y

VERSION CREATED ON / VERSION / STATUS

22 Aug 2024 / 1.2 / Approved

EXTERNAL REFERENCE / VERSION

**Technical Specifications (In-Cash Procurement)** 

# Framework Contract for electrical and lightning protection works (minor electrical works)

This technical specification aims to set up a framework contract in order to support the EPD for the execution of electrical and lightning protection works



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# 1 Preamble

This Technical Specification is to be read in combination with the General Management Specification for Service and Supply (GM3S) – [Ref 1] that constitutes a full part of the technical requirements.

In case of conflict, the content of the Technical Specification supersedes the content of Ref [1].

# 2 Purpose

Many EPD systems and equipment are in operation or in commissioning. This context involves modifications and minor corrections to improve the operability of the networks/installations, to comply with the Electrical French regulation or to address missing items.

EPD is also responsible for the operation and maintenance of some temporary networks which must be modified in respect to the project's needs and constraints.

This technical specification aims to set up a Framework Contract.

# 3 Acronyms & Definitions

# 3.1 Acronyms

A list of ITER abbreviations used throughout the ITER Project can be found at IDM: <a href="https://user.iter.org/?uid=2MU6W5">https://user.iter.org/?uid=2MU6W5</a>

The following acronyms are the main one relevant to this document.

Abbreviation	Description
CRO	Contract Responsible Officer
GM3S	General Management Specification for Service and Supply
IO	ITER Organization
PRO	Procurement Responsible Officer

#### 3.2 Definitions

**Contractor:** shall mean an economic operator who have signed the Contract in which this document is referenced.



# 4 Applicable Documents & Codes and standards

# 4.1 Applicable Documents

This is the responsibility of the Contractor to identify and request for any documents that would not have been transmitted by IO, including the below list of reference documents.

This Technical Specification takes precedence over the referenced documents. In case of conflicting information, this is the responsibility of the contractor to seek clarification from IO.

Upon notification of any revision of the applicable document transmitted officially to the contractor, the contractor shall advise within 4 weeks of any impact on the execution of the contract. Without any response after this period, no impact will be considered.

Ref	Title	IDM Doc ID	Version
1	General Management Specification for Service and Supply (GM3S)	82MXQK	1.4
2	PGC Annex 0	42FYPZ	2.0
3	ITER internal regulation	27WDZW	3.1
4	ITER Site Development Plan	UYRHXW	23

# 4.2 Applicable Codes and Standards

This is the responsibility of the contractor to procure the relevant Codes and Standards applicable to that scope of work.

Ref	Title
CS1	Decree 2010-1017 obligation of the contracting authority
CS2	Decree 2010-1016 obligation of the employers
CS3	<b>Decree 2010-1118</b> operation on (or in the vicinity) an electrical installation and the authorization
CS4	<b>Decree 2010-1018</b> various provisions relating to the prevention of electrical hazard in workplace
CS5	NFC 13200: HV Electrical Standard
CS6	NFC 15100: LV Electrical Standard
CS7	NFEN 62305-1 (2012): Protection against lightning – part 1: general principles
CS8	NFEN 62305-2 (2012):: Protection against lightning – part 2: Risk evaluation.



CS9	NFEN 62305-3 (2012):: Protection against lightning – part 3: Physical damage to structures
	and life hazard.
CS10	NFEN 62305-4 (2012):: Protection against lightning - part 4: Electrical and electronic
	systems within structures.
CS11	NFEN62561 serie 1-7 (2016-2017): Lightning Protection Components (LPC).
CS12	NFEN 61643-11 (2014): Low-voltage surge protective devices - Part 11 : surge protective
	devices connected to low-voltage power systems - requirements and test methods.
CS13	CLC/TS 61643-12 (2009): Low-voltage surge protective devices - Part 12 : surge protective
	devices connected to low-voltage power distribution systems - Selection and application
	principles
CS14	NFEN 61643-21 and A1/A2 (2001-2009/2013): Low voltage surge protective devices - Part
	21 : surge protective devices connected to telecommunications and signalling networks -
	Performance requirements and testing methods
~~.	CLC TS 616/2 22 (2016): Low voltage curgo protective devices. Part 22: curgo protective
CS15	<b>CLC TS 61643-22 (2016)</b> : Low-voltage surge protective devices - Part 22 : surge protective
	devices connected to telecommunications and signalling networks - Selection and
	application principles.

# 5 Scope of Work

This section defines the specific scope of work for the service, in addition to the contract execution requirement as defined in Ref [1].

# 5.1 Responsibilities

The Contractor's performance shall include all supplies and services necessary for the Works (equipment, specialized tools, qualified labor, energy, diesel supply, transportation and various handling, detailed construction designs, and drawings, project organization, etc.).

All the document or component shall be validated by IO before any order or execution works.

# **Responsibilities:**

The responsibilities between the Parties are summarized in Table 1 (below) and is further detailed in the following sections.

Activity	Ю	Supplier
A-Design-supplies		
Requirement	R	A
Design (if requested)	A	R
Supplies of the material and delivery	A	R
B-Site works		
Permit to work *	R	R/A



Site installation works	A	R
C-Final acceptance		
Regulatory inspection (if necessary)	R	/////
As-built (if requested)	A	R
Final Acceptance	A	A

Table 1 Summary of the Responsibilities between the IO and the Supplier

R = Responsible for organizing, performing and for the content

A = Review/Comment/Accept/Approve

NA=Not Applicable

\*In first intention, the Work permit will be requested by IO, however in some circumstances the permit to work can be requested by the company.

#### 5.2 Execution Works

The contractor will be responsible for the execution of electrical and lightning protection works. The material and means necessary for the perfect finishing of the works are in the scope of the contractor. In some case the contractor might be requested to prepare study, drawing and various document.

The company must provide a bill of price (5.2.1) and propose a price for the scenarios (refer to the relevant Instruction to Tenderer).

Due the nature of the works to be performed, the company must be able to intervene on ITER site within 8 hours (urgent repair for example). The company must have a workshop within a radius of 20km from the ITER site. The company must have the necessary tools and equipment to carry out the works (cable winch, rollers, drilling machine, mobile scaffold, individual rolling platform (PIRL), fiber optics welding machine etc). All the equipment and tools must be in good condition. If they are subjected to regulatory inspection, a valid regulatory verification report must be provided.

The company shall have a perfect knowledge of the French Electrical regulation (labor code) and of the related Standards. The works performed by the company must be compliant with the French electrical regulation and standards.

**IO** requires some mandatory certifications:

- 1- The Qualifoudre Certification (level "installation works" at least)
- 2- Company's personnels must have the CATEC certification.



- 3- The personnel who will prepare HVA terminations and HVA junction boxes must be certified in respect to the referential PRDE G.5.2-01 and 02.
- 4-The personnel who will weld or test the optical fiber must have the relevant certification.

# 5.2.1 Works to be performed under the Contract

Item	Description	Unit		Notes-Rule
1-Workf	force and Man-hour for works under c	applicable rates when the		
1.1	qualified electrician	hour		works do not fit the bill of
1.2	Team leader	hour		price below. The supplier will have to propose a
1.3	designer	hour		quotation taking into
	over cost for special working hour			account the present rates
1.5	night	%		and the price of the material
1.6	Saturday	%		(quote from supplier to be
1.7	public holiday	%		provided). If CATEC
1.8	CATEC intervention	Unit		intervention is required the unit price will have to be added to the quotation.
2-Study-	-Drawing-Documents			audus se une questation.
2.1	Low Voltage Caneco calculation note	per circuit		The calculation note shall be executed with the last version of caneco. The calculation note shall includes the electrical sources and HV SCC, those information will be provided by IO.
2.2	modification of a drawing (dwg)	per sheet		dwg or pdf source file provided by IO
2.3	creation of a drawing (dwg)	per sheet		drawing to be provided in dwg <u>and</u> pdf format
2.4	redaction of a lightning maintenance manual	Unit		This regulatory document must be redacted by a company certified QUAIFOUDRE. It includes a 1 day of site survey and the synthesis of information and other documents provided by IO. Those documents are in general as built informations delivered by several companies (tender batches) working for F4E.
2.5	site survey	hour		in order to prepare the task in section 2



	T	
2.6	review of a legal inspection report	Unit
	and proposal of solution and	
	associated costs	
3-CABLES	and ACCESSORIES-Fiber Optic-Ethern	et
3.1	H07RNF 3G	
3.1.1	1.5mm²	ml
3.1.2	2.5mm²	ml
3.1.3	4mm²	ml
3.1.4	6mm²	ml
3.1.5	10mm²	ml
3.1.6	16mm²	ml
3.1.7	25mm²	ml
3.1.8	35mm²	ml
3.1.9	50mm <sup>2</sup>	ml
3.2	H07RNF 4G	1
3.2.1	1.5mm²	ml
3.2.2	2.5mm <sup>2</sup>	ml
3.2.3	4mm²	ml
3.2.4	6mm²	ml
3.2.5	10mm²	ml
3.2.6	16mm²	ml
3.2.7	25mm²	ml
3.2.8	35mm <sup>2</sup>	ml
3.2.9	50mm²	ml
3.3	H07RNF 5G	1
3.3.1	1.5mm²	ml
3.3.2	2.5mm <sup>2</sup>	ml
3.3.3	4mm²	ml
3.3.4	6mm²	ml
3.3.5	10mm²	ml
3.3.6	16mm²	ml
3.3.7	25mm²	ml
3.3.8	35mm <sup>2</sup>	ml
3.3.9	50mm <sup>2</sup>	ml
3.4	U1000R2V 3G	1
3.4.1	1.5mm <sup>2</sup>	ml
3.4.2	2.5mm <sup>2</sup>	ml
3.4.3	4mm²	ml
3.4.4	6mm²	ml
3.4.5	10mm²	ml
3.4.6	16mm²	ml
3.4.0	_ = -······	1
3.4.7	25mm²	mI

This item aims to propose the technical solution when electrical non conformity are raised by a legal inspection office. The associated cost must be based on the present Bill of Price.

price per ml installed. Price includes the supply, installation, connections and accessories e.g terminals, bolt, washers, cable ties, collars, cable glands.

	tor
iins ea in	elia ianan horna russii

cliins ou india japan ko	res ressis usa		
3.5.1	1.5mm²	ml	
3.5.2	2.5mm <sup>2</sup>	ml	
3.5.3	4mm²	ml	
3.5.4	6mm²	ml	
3.5.5	10mm²	ml	
3.5.6	16mm²	ml	
3.5.7	25mm²	ml	
3.5.8	35mm²	ml	
3.5.9	50mm²	ml	
3.6	U1000R2V 5G		
3.6.1	1.5mm²	ml	
3.6.2	2.5mm²	ml	
3.6.3	4mm²	ml	
3.6.4	6mm²	ml	
3.6.5	10mm²	ml	
3.6.6	16mm²	ml	
3.6.7	25mm²	ml	
3.6.8	35mm²	ml	
3.6.9	50mm²	ml	
3.7	U1000RVFV 7G		
3.7.1	1.5mm²	ml	
3.7.2	2.5mm <sup>2</sup>	ml	
3.8	U1000RVFV 12G	'	
3.8.1	1.5mm²	ml	
3.8.2	2.5mm²	ml	
3.9	U1000RVFV 19G	•	
3.9.1	1.5mm²	ml	
3.9.2	2.5mm²	ml	
3.10	U1000RVFV 27G	•	
3.10.1	1.5mm²	ml	
3.10.2	2.5mm <sup>2</sup>	ml	
3.11	U1000R2V 1X		
3.11.1	25mm²	ml	
3.11.2	35mm²	ml	
3.11.3	50mm²	ml	
3.12	H07-VK 1X (for internal wiring)		
3.12.1	1.5mm <sup>2</sup>	ml	
3.12.2	2.5mm <sup>2</sup>	ml	
3.12.3	4mm²	ml	
3.12.4	6mm²	ml	
3.12.5	10mm²	ml	
3.12.6	16mm²	ml	
3.12.7	25mm²	ml	
3.12.8	35mm <sup>2</sup>	ml	
3.12.9	50mm <sup>2</sup>	ml	
3.13	H07-VU 1X (yellow/green)		

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3.13.1	A FRANCIS COM		
	1.5mm <sup>2</sup>	ml	
3.13.2	2.5mm <sup>2</sup>	ml	
3.13.3	4mm²	ml	
3.13.4	6mm²	ml	
3.13.5	10mm²	ml	
3.13.6	16mm²	ml	
3.13.7	25mm²	ml	
3.13.8	35mm²	ml	
3.13.9	50mm <sup>2</sup>	ml	
3.14	Bare copper cable 1X		
3.14.1	25mm²	ml	
3.14.2	35mm²	ml	
3.14.3	50mm²	ml	
	75mm²	ml	
	120mm²	ml	
	U1000AR2V 3G		
	25mm²	ml	
	35mm²	ml	
	50mm²	ml	
	U1000AR2V 4G	****	
	25mm²	ml	
	35mm²	ml	
	50mm²	ml	
	U1000AR2V 5G	1111	
	25mm²	ml	
	35mm²	ml	
	50mm²	ml	
	Fiber Optic	1111	Price includes the supply,
	Single-mode 4 strand 9/125µm	ml	installation, fusions at the
	Single-mode 4 strand 9/125μm	ml	extremities, reflectometry
	Single-mode 8 strand 9/125μm	ml	test based on ISO/IEC 14763-
	single-mode 12 strand 9/125μm	ml	3/A1
	Multi-mode 4 strands 50/125μm		
		ml	
	Multi-mode 6 strands 50/125μm	ml	
	Multi-mode 8 strands 50/125μm	ml	
	Multi-mode 12 strands 50/125μm	ml :t	
	LC connector	unit	
	ST connector	unit	
	MPT connector	unit	Dulan in alcolara than a said
	Ethernet		Price includes the supply, installation and connector at
	Cable S/FTP cat 6 (250MHz), 8 wires 0.25mm <sup>2</sup>	ml	the extremities
3.20.2	Cable S/FTP cat 6a (500MHz), 8 wires 0.25mm²	ml	
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	HV CABLES (NFC 33-226) and accesso	ries	Price includes the supply,
3.21	HV CABLES (NFC 33-226) and accessor 3x1x50mm² Aluminium	<b>ries</b> ml	Price includes the supply, installation. Concerning the accessories unit price is for a



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3.21.3	3x1x240mm² Aluminium	ml	
3.21.4	termination kit 3M termination	unit	
	E3UIC RF-24-50-240 (24kV)		
3.21.5	termination kit SICAME E3UIC RF-	unit	
	RSM-50-240 AL/CU (24kV)		
3.21.6	Separable connector 250A A	unit	
2 24 7	interface	a:±	
3.21.7	Separable connector 400A B interface	unit	
3.21.8	Separable connector from 630A C	unit	
3.21.0	interface	unic	
3.21.9	junction box 3UP-RF-RSM-24-	unit	
	50/240 Al/Cu		
3.21.10	Junction box SICAME JUPRF RSM 24	unit	
	50 240 X		
4-Direct L	ightning protection		
4.1	50mm² aluminium round conductor	ml	
	(compliant with NFEN 62561) DEHN		
	840018		
4.2	flat copper strip 30x2mm	ml	
	(compliant with NFEN 62561) DEHN 831302		
4.3	concrete base DEHN253015	unit	
4.4	aluminium braid DEHN 377015	unit	
4.5	copper braid DEHN 377007	unit	
4.6	conductor holder DEHN 207019	unit	
4.7	conductor holder DEHN 274110	unit	
4.8	MV clamp 8-10mm DEHN 390559	unit	
4.9	MV clamp 8-10mm DEHN 390550	unit	
	<u>'</u>	unit	
4.10	MV clamp 8-10mm/16mm DEHN 392059	unit	
4.11	KS clamp 6-10mm DEHN 301009	unit	
4.12	universal junction clamp DEHN	unit	
	315119		
4.13	junction clamp for round conductor	unit	
	DEHN 319209		
4.14	junction clamp for flat conductor	unit	
	DEHN 319229		
4.15	junction copper clamp for flat	unit	
116	conductor DEHN 321047	uni+	
4.16	Extension clamp DEHN 385213	unit	
4.17	clamp for steel beam 3-18mm DEHN 372119	unit	
4.18	clamp for steel beam 18-35mm	unit	
4.10	DEHN 372149	unit	
4.19	clip DEHN 377009	unit	
4.20	200kA KS clamp DEHN 301209	unit	
4.21	200kA MV clamp DEHN 390209	unit	
4.22	200kA MV clamp for rods DEHN	unit	
	392209		
4.23	200kA UNI clamp DEHN 459219	unit	
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set of 3 termination and connector. All the accessories are included (electrical lugs, copper braids for screen connection).

Prices must include the supply, installation and connections. Qualifoudre certification is mandatory.



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4.24	3m long Spacer DEHN 253310	unit	
4.25	conductor holder DEHN 253302	unit	
4.26	baseplate DEHN 253300	unit	
4.27	insulated pin with MMV clamp DEHN 106150	unit	
4.28	isolator 1030mm DEHN 106228	unit	
4.29	isolator 690mm DEHN 106226	unit	
4.30	isolator 530mm DEHN 106225	unit	
4.31	1.5m Al 10-16mm rod DEHN 103210	unit	
4.32	3m Al 10-16mm rod DEHN 103240	unit	
4.33	6m Al 16mm rod DEHN 104600 (to be cut)	unit	
4.34	3m rod with tripod DEHN 105530	unit	
4.35	4m rod with tripod DEHN 105400	unit	
4.36	5m rod with tripod DEHN 105500	unit	
4.37	5.5m rod with tripod DEHN 105550	unit	
4.38	6m rod with tripod DEHN 105600	unit	
4.39	7m rod with tripod DEHN 105700	unit	
4.40	concrete base 337mm DEHN 102010	unit	
4.41	plastic plate 370mm DEHN 102050	unit	
4.42	4m rod 40mm DEHN 105170	unit	
4.43	5m rod 40mm DEHN 105171	unit	
4.44	4m rod 40mm DEHN 105172	unit	
4.45	4m rod 40mm DEHN 105173	unit	
4.46	support for 40mm rod DEHN 105140	unit	
4.47	support for 40mm rod DEHN 105342	unit	
4.48	support for 40mm rod DEHN 105348	unit	
4.49	support for 40mm rod DEHN 105344	unit	
4.50	support for 40mm rod DEHN 105347	unit	
4.51	support for 40mm rod/round DEHN 105354	unit	
4.52	support for 40mm rod/round DEHN 105162	unit	
4.53	support for 40mm rod/round DEHN 105160	unit	
4.54	collar DEHN 540105	unit	
4.55	collar DEHN 540200	unit	
4.56	collar DEHN 540104	unit	
4.57	collar DEHN 540100	unit	
4.58	collar DEHN 540103	unit	
4.59	earthing post 1m DEHN 625101	unit	

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4.60 extremity for earthing post DEHN 625001 4.61 clamp for earthing post DEHN 610010 4.62 Copper equipotentiality busbar 6 holes DEHN 472207 4.63 Copper equipotentiality busbar 8 holes DEHN 472227 4.64 Copper equipotentiality busbar 12 holes DEHN 472237 4.65 Exothermic weldings unit 5-Conduit-duct-cable tray (metallic) 27x75mm  5.1.1 metallic-perforated cable tray (metallic) 27x123mm  5.1.2 metallic-perforated cable tray (metallic) 27x123mm  5.1.3 metallic-perforated cable tray (metallic) 27x316mm  5.1.4 metallic-perforated cable tray (metallic) 27x316mm  5.1.5 metallic-perforated cable tray (metallic) 27x316mm  5.1.6 metallic-perforated cable tray (metallic) 21x412mm  5.1.7 metallic-perforated cable tray (metallic) 51x123mm  5.1.8 metallic-perforated cable tray (metallic) 51x123mm  5.1.9 metallic-perforated cable tray (metallic) 51x123mm  5.1.10 metallic-perforated cable tray (metallic) 51x123mm  5.1.11 metallic cover 75mm  5.1.12 metallic cover 123mm  ml  5.1.13 metallic cover 123mm  ml  5.1.14 metallic cover 123mm  ml  5.1.15 metallic cover 123mm  ml  5.1.16 metallic cover 124mm  ml  5.1.17 metallic cover 125mm  ml  5.1.18 metallic cover 100x200mm  ml  5.1.19 metallic cover 100x200mm  ml  5.1.10 metallic cover for cable ladder 200mm  5.1.21 metallic cover for cable ladder 300mm  5.1.22 metallic cover for cable ladder 300mm  5.1.23 metallic cover for cable ladder 300mm  5.1.24 metallic cover for cable ladder 400mm  5.1.23 metallic cover for cable ladder 300mm  5.1.24 metallic trunk 100x100mm  ml	chino ou india japan ko	POS PRISTS GOM		
4.62 Copper equipotentiality busbar 6 holes DEHN 472207 4.63 Copper equipotentiality busbar 8 holes DEHN 472227 4.64 Copper equipotentiality busbar 12 unit holes DEHN 472237 4.65 Exothermic weldings unit 5-Conduit-duct-cable tray 5.1 Metallic 5.1.1 metallic-perforated cable tray (metallic) 27x75mm ml (metallic) 27x123mm 5.1.2 metallic-perforated cable tray (metallic) 27x123mm 5.1.3 metallic-perforated cable tray (metallic) 27x123mm 5.1.4 metallic-perforated cable tray (metallic) 27x316mm 5.1.5 metallic-perforated cable tray (metallic) 27x316mm 5.1.6 metallic-perforated cable tray (metallic) 27x412mm 5.1.6 metallic-perforated cable tray (metallic) 51x75mm 5.1.7 metallic-perforated cable tray (metallic) 51x123mm 5.1.8 metallic-perforated cable tray (metallic) 51x123mm 5.1.9 metallic-perforated cable tray (metallic) 51x123mm 5.1.10 metallic-perforated cable tray (metallic) 51x125mm 5.1.11 metallic cover 75mm ml 5.1.12 metallic cover 123mm ml 5.1.13 metallic cover 195mm ml 5.1.14 metallic cover 195mm ml 5.1.15 metallic cover 412mm ml 5.1.16 metallic cover 412mm ml 5.1.17 metallic cover 412mm ml 5.1.18 metallic cover 100x300mm ml 5.1.19 metallic cable ladder 100x300mm ml 5.1.10 metallic cable ladder 100x300mm ml 5.1.11 metallic cable ladder 100x400mm ml 5.1.12 metallic cable ladder 100x500mm ml 5.1.13 metallic cover for cable ladder ml 200mm 5.1.20 metallic cover for cable ladder ml 300mm 5.1.21 metallic cover for cable ladder ml 300mm 5.1.22 metallic cover for cable ladder ml 300mm 5.1.23 metallic cover for cable ladder ml	4.60		unit	
A.63 Copper equipotentiality busbar 8 holes DEHN 472227  4.64 Copper equipotentiality busbar 12 holes DEHN 472237  4.65 Exothermic weldings unit  5-Conduit-duct-cable tray  5.1 Metallic  5.1.1 metallic-perforated cable tray (metallic) 27x75mm  5.1.2 metallic-perforated cable tray (metallic) 27x195mm  5.1.3 metallic-perforated cable tray (metallic) 27x195mm  5.1.4 metallic-perforated cable tray (metallic) 27x316mm  5.1.5 metallic-perforated cable tray (metallic) 27x316mm  5.1.6 metallic-perforated cable tray (metallic) 27x412mm  5.1.7 metallic-perforated cable tray (metallic) 51x75mm  5.1.8 metallic-perforated cable tray (metallic) 51x123mm  5.1.9 metallic-perforated cable tray (metallic) 51x15mm  5.1.10 metallic-perforated cable tray (metallic) 51x316mm  5.1.11 metallic cover 75mm ml  5.1.12 metallic cover 123mm ml  5.1.13 metallic cover 195mm ml  5.1.14 metallic cover 195mm ml  5.1.15 metallic cover 195mm ml  5.1.16 metallic cover 195mm ml  5.1.17 metallic cover 195mm ml  5.1.18 metallic cover 412mm ml  5.1.19 metallic cover 100x300mm ml  5.1.10 metallic cable ladder 100x200mm ml  5.1.11 metallic cable ladder 100x500mm ml  5.1.12 metallic coble ladder 100x500mm ml  5.1.13 metallic cover for cable ladder ml  200mm  5.1.21 metallic cover for cable ladder  300mm  5.1.22 metallic cover for cable ladder  300mm  5.1.23 metallic cover for cable ladder  400mm  5.1.23 metallic cover for cable ladder  300mm  5.1.23 metallic cover for cable ladder  400mm  5.1.23 metallic cover for cable ladder  500mm	4.61		unit	
A.64 Copper equipotentiality busbar 12 holes DEHN 472237  4.65 Exothernic weldings unit  5-Conduit-duct-cable tray  5.1 Metallic  5.1.1 metallic-perforated cable tray (metallic) 27x75mm  5.1.2 metallic-perforated cable tray (metallic) 27x123mm  5.1.3 metallic-perforated cable tray (metallic) 27x123mm  5.1.4 metallic-perforated cable tray ml (metallic) 27x316mm  5.1.5 metallic-perforated cable tray ml (metallic) 27x316mm  5.1.6 metallic-perforated cable tray ml (metallic) 51x75mm  5.1.7 metallic-perforated cable tray ml (metallic) 51x75mm  5.1.8 metallic-perforated cable tray ml (metallic) 51x123mm  5.1.9 metallic-perforated cable tray ml (metallic) 51x123mm  5.1.10 metallic-perforated cable tray ml (metallic) 51x316mm  5.1.10 metallic-perforated cable tray ml metallic 51x412mm  5.1.11 metallic cover 75mm ml  5.1.12 metallic cover 123mm ml  5.1.13 metallic cover 123mm ml  5.1.14 metallic cover 195mm ml  5.1.15 metallic cover 412mm ml  5.1.16 metallic cover 412mm ml  5.1.17 metallic cable ladder 100x200mm ml  5.1.18 metallic cable ladder 100x400mm ml  5.1.19 metallic cable ladder 100x400mm ml  5.1.20 metallic cable ladder 100x400mm ml  5.1.21 metallic cover for cable ladder ml  300mm  5.1.22 metallic cover for cable ladder ml  500mm  5.1.23 metallic cover for cable ladder ml  500mm	4.62		unit	
A.65 Exothermic weldings unit  S-Conduit-duct-cable tray  5.1 Metallic  5.1.1 metallic-perforated cable tray (metallic) 27x75mm  5.1.2 metallic-perforated cable tray (metallic) 27x7123mm  5.1.3 metallic-perforated cable tray ml (metallic) 27x123mm  5.1.4 metallic-perforated cable tray ml (metallic) 27x316mm  5.1.5 metallic-perforated cable tray ml (metallic) 27x412mm  5.1.6 metallic-perforated cable tray ml (metallic) 51x75mm  5.1.7 metallic-perforated cable tray ml (metallic) 51x123mm  5.1.8 metallic-perforated cable tray ml (metallic) 51x125mm  5.1.9 metallic-perforated cable tray ml (metallic) 51x316mm  5.1.10 metallic-perforated cable tray ml (metallic) 51x316mm  5.1.11 metallic cover 75mm ml  5.1.12 metallic cover 123mm ml  5.1.13 metallic cover 123mm ml  5.1.14 metallic cover 412mm ml  5.1.15 metallic cover 412mm ml  5.1.16 metallic cable ladder 100x200mm ml  5.1.17 metallic cable ladder 100x300mm ml  5.1.18 metallic cable ladder 100x300mm ml  5.1.19 metallic cover for cable ladder ml  300mm  5.1.20 metallic cover for cable ladder ml  300mm  5.1.21 metallic cover for cable ladder ml  300mm  5.1.22 metallic cover for cable ladder ml  5.1.23 metallic cover for cable ladder ml  5.1.23 metallic cover for cable ladder ml  5.1.23 metallic cover for cable ladder ml	4.63		unit	
5.1 Metallic 5.1.1 metallic-perforated cable tray (metallic) 27x75mm  5.1.2 metallic-perforated cable tray (metallic) 27x123mm  5.1.3 metallic-perforated cable tray (metallic) 27x195mm  5.1.4 metallic-perforated cable tray (metallic) 27x195mm  5.1.5 metallic-perforated cable tray (metallic) 27x316mm  5.1.5 metallic-perforated cable tray ml (metallic) 27x412mm  5.1.6 metallic-perforated cable tray ml (metallic) 51x75mm  5.1.7 metallic-perforated cable tray ml (metallic) 51x123mm  5.1.8 metallic-perforated cable tray ml (metallic) 51x123mm  5.1.9 metallic-perforated cable tray ml (metallic) 51x316mm  5.1.10 metallic-perforated cable tray ml (metallic) 51x316mm  5.1.11 metallic cover 75mm ml  5.1.12 metallic cover 123mm ml  5.1.13 metallic cover 195mm ml  5.1.14 metallic cover 316mm ml  5.1.15 metallic cover 412mm ml  5.1.16 metallic cable ladder 100x200mm ml  5.1.17 metallic cable ladder 100x300mm ml  5.1.18 metallic cable ladder 100x300mm ml  5.1.19 metallic cable ladder 100x500mm ml  5.1.20 metallic cover for cable ladder ml  300mm  5.1.21 metallic cover for cable ladder ml  300mm  5.1.22 metallic cover for cable ladder ml  300mm  5.1.23 metallic cover for cable ladder ml  500mm	4.64		unit	
5.1 Metallic 5.1.1 metallic-perforated cable tray (metallic) 27x75mm  5.1.2 metallic-perforated cable tray (metallic) 27x123mm  5.1.3 metallic-perforated cable tray (metallic) 27x195mm  5.1.4 metallic-perforated cable tray (metallic) 27x316mm  5.1.5 metallic-perforated cable tray (metallic) 27x316mm  5.1.6 metallic-perforated cable tray (metallic) 27x412mm  5.1.7 metallic-perforated cable tray (metallic) 51x75mm  5.1.8 metallic-perforated cable tray (metallic) 51x123mm  5.1.9 metallic-perforated cable tray ml (metallic) 51x195mm  5.1.10 metallic-perforated cable tray ml (metallic) 51x316mm  5.1.11 metallic-perforated cable tray ml (metallic) 51x412mm  5.1.12 metallic-perforated cable tray ml (metallic) 51x412mm  5.1.11 metallic cover 75mm ml  5.1.12 metallic cover 123mm ml  5.1.13 metallic cover 195mm ml  5.1.14 metallic cover 412mm ml  5.1.15 metallic cover 412mm ml  5.1.16 metallic cable ladder 100x200mm ml  5.1.17 metallic cable ladder 100x300mm ml  5.1.18 metallic cable ladder 100x400mm ml  5.1.19 metallic cover for cable ladder ml  200mm  5.1.20 metallic cover for cable ladder ml  300mm  5.1.21 metallic cover for cable ladder ml  300mm  5.1.22 metallic cover for cable ladder ml  500mm  5.1.23 metallic cover for cable ladder ml	4.65	Exothermic weldings	unit	
5.1.1 metallic-perforated cable tray (metallic) 27x75mm  5.1.2 metallic-perforated cable tray (metallic) 27x123mm  5.1.3 metallic-perforated cable tray (metallic) 27x195mm  5.1.4 metallic-perforated cable tray (metallic) 27x316mm  5.1.5 metallic-perforated cable tray (metallic) 27x316mm  5.1.6 metallic-perforated cable tray (metallic) 51x72mm  5.1.7 metallic-perforated cable tray (metallic) 51x75mm  5.1.8 metallic-perforated cable tray (metallic) 51x123mm  5.1.9 metallic-perforated cable tray (metallic) 51x195mm  5.1.10 metallic-perforated cable tray (metallic) 51x316mm  5.1.11 metallic cover 75mm ml  5.1.12 metallic cover 123mm ml  5.1.13 metallic cover 195mm ml  5.1.14 metallic cover 195mm ml  5.1.15 metallic cover 412mm ml  5.1.16 metallic cable ladder 100x200mm ml  5.1.17 metallic cable ladder 100x400mm ml  5.1.18 metallic cable ladder 100x400mm ml  5.1.19 metallic cable ladder 100x500mm ml  5.1.20 metallic cover for cable ladder ml  200mm  5.1.21 metallic cover for cable ladder ml  300mm  5.1.22 metallic cover for cable ladder ml  300mm  5.1.23 metallic cover for cable ladder ml  500mm	5-Conduit	t-duct-cable tray	'	
(metallic) 27x75mm  5.1.2 metallic-perforated cable tray (metallic) 27x123mm  5.1.3 metallic-perforated cable tray (metallic) 27x195mm  5.1.4 metallic-perforated cable tray (metallic) 27x316mm  5.1.5 metallic-perforated cable tray (metallic) 27x316mm  5.1.6 metallic-perforated cable tray (metallic) 51x72mm  5.1.7 metallic-perforated cable tray (metallic) 51x123mm  5.1.8 metallic-perforated cable tray (metallic) 51x195mm  5.1.9 metallic-perforated cable tray (metallic) 51x195mm  5.1.10 metallic-perforated cable tray (metallic) 51x316mm  5.1.11 metallic cover 75mm ml  5.1.12 metallic cover 123mm ml  5.1.13 metallic cover 195mm ml  5.1.14 metallic cover 195mm ml  5.1.15 metallic cover 412mm ml  5.1.16 metallic cable ladder 100x200mm ml  5.1.17 metallic cable ladder 100x300mm ml  5.1.18 metallic cable ladder 100x400mm ml  5.1.19 metallic cable ladder 100x500mm ml  5.1.20 metallic cover for cable ladder ml  200mm  5.1.21 metallic cover for cable ladder ml  300mm  5.1.22 metallic cover for cable ladder ml  300mm  5.1.23 metallic cover for cable ladder ml	5.1	Metallic		
(metallic) 27x123mm  5.1.3 metallic-perforated cable tray (metallic) 27x195mm  5.1.4 metallic-perforated cable tray (metallic) 27x316mm  5.1.5 metallic-perforated cable tray (metallic) 27x412mm  5.1.6 metallic-perforated cable tray (metallic) 51x75mm  5.1.7 metallic-perforated cable tray (metallic) 51x123mm  5.1.8 metallic-perforated cable tray (metallic) 51x123mm  5.1.9 metallic-perforated cable tray (metallic) 51x316mm  5.1.10 metallic-perforated cable tray (metallic) 51x316mm  5.1.11 metallic cover 75mm ml  5.1.12 metallic cover 123mm ml  5.1.13 metallic cover 195mm ml  5.1.14 metallic cover 412mm ml  5.1.15 metallic cover 412mm ml  5.1.16 metallic cable ladder 100x200mm ml  5.1.17 metallic cable ladder 100x300mm ml  5.1.18 metallic cable ladder 100x400mm ml  5.1.19 metallic cable ladder 100x500mm ml  5.1.20 metallic cover for cable ladder ml  300mm  5.1.21 metallic cover for cable ladder ml  300mm  5.1.22 metallic cover for cable ladder ml  400mm  5.1.23 metallic cover for cable ladder ml  500mm	5.1.1		ml	
5.1.3 metallic-perforated cable tray (metallic) 27x195mm  5.1.4 metallic-perforated cable tray (metallic) 27x316mm  5.1.5 metallic-perforated cable tray (metallic) 27x412mm  5.1.6 metallic-perforated cable tray (metallic) 51x75mm  5.1.7 metallic-perforated cable tray (metallic) 51x123mm  5.1.8 metallic-perforated cable tray (metallic) 51x123mm  5.1.9 metallic-perforated cable tray (metallic) 51x316mm  5.1.10 metallic-perforated cable tray (metallic) 51x412mm  5.1.11 metallic cover 75mm ml  5.1.12 metallic cover 123mm ml  5.1.13 metallic cover 195mm ml  5.1.14 metallic cover 316mm ml  5.1.15 metallic cover 412mm ml  5.1.16 metallic cable ladder 100x200mm ml  5.1.17 metallic cable ladder 100x200mm ml  5.1.18 metallic cable ladder 100x400mm ml  5.1.19 metallic cable ladder 100x500mm ml  5.1.20 metallic cover for cable ladder 300mm  5.1.21 metallic cover for cable ladder 400mm  5.1.22 metallic cover for cable ladder ml  300mm  5.1.23 metallic cover for cable ladder ml  500mm	5.1.2	metallic-perforated cable tray	ml	
5.1.4 metallic-perforated cable tray (metallic) 27x316mm  5.1.5 metallic-perforated cable tray (metallic) 27x412mm  5.1.6 metallic-perforated cable tray (metallic) 51x75mm  5.1.7 metallic-perforated cable tray (metallic) 51x123mm  5.1.8 metallic-perforated cable tray (metallic) 51x195mm  5.1.9 metallic-perforated cable tray (metallic) 51x316mm  5.1.10 metallic-perforated cable tray (metallic) 51x412mm  5.1.11 metallic cover 75mm ml  5.1.12 metallic cover 123mm ml  5.1.13 metallic cover 195mm ml  5.1.14 metallic cover 412mm ml  5.1.15 metallic cover 412mm ml  5.1.16 metallic cable ladder 100x200mm ml  5.1.17 metallic cable ladder 100x300mm ml  5.1.18 metallic cable ladder 100x400mm ml  5.1.19 metallic cable ladder 100x500mm ml  5.1.20 metallic cover for cable ladder ml  200mm  5.1.21 metallic cover for cable ladder ml  300mm  5.1.22 metallic cover for cable ladder ml  500mm  metallic cover for cable ladder ml	5.1.3	metallic-perforated cable tray	ml	
5.1.5 metallic-perforated cable tray (metallic) 27x412mm  5.1.6 metallic-perforated cable tray (metallic) 51x75mm  5.1.7 metallic-perforated cable tray (metallic) 51x123mm  5.1.8 metallic-perforated cable tray (metallic) 51x195mm  5.1.9 metallic-perforated cable tray (metallic) 51x316mm  5.1.10 metallic-perforated cable tray (metallic) 51x316mm  5.1.11 metallic cover 75mm ml  5.1.12 metallic cover 123mm ml  5.1.13 metallic cover 195mm ml  5.1.14 metallic cover 412mm ml  5.1.15 metallic cover 412mm ml  5.1.16 metallic cable ladder 100x200mm ml  5.1.17 metallic cable ladder 100x300mm ml  5.1.18 metallic cable ladder 100x500mm ml  5.1.19 metallic cable ladder 100x500mm ml  5.1.20 metallic cover for cable ladder ml  200mm  5.1.21 metallic cover for cable ladder ml  300mm  5.1.22 metallic cover for cable ladder ml  500mm	5.1.4	metallic-perforated cable tray	ml	
5.1.6 metallic-perforated cable tray (metallic) 51x75mm  5.1.7 metallic-perforated cable tray (metallic) 51x123mm  5.1.8 metallic-perforated cable tray (metallic) 51x195mm  5.1.9 metallic-perforated cable tray (metallic) 51x316mm  5.1.10 metallic-perforated cable tray (metallic) 51x412mm  5.1.11 metallic cover 75mm ml  5.1.12 metallic cover 123mm ml  5.1.13 metallic cover 195mm ml  5.1.14 metallic cover 316mm ml  5.1.15 metallic cover 412mm ml  5.1.16 metallic cable ladder 100x200mm ml  5.1.17 metallic cable ladder 100x300mm ml  5.1.18 metallic cable ladder 100x400mm ml  5.1.19 metallic cable ladder 100x500mm ml  5.1.20 metallic cover for cable ladder ml  200mm  5.1.21 metallic cover for cable ladder ml  300mm  5.1.22 metallic cover for cable ladder ml  500mm	5.1.5	metallic-perforated cable tray	ml	
5.1.7 metallic-perforated cable tray (metallic) 51x123mm  5.1.8 metallic-perforated cable tray (metallic) 51x195mm  5.1.9 metallic-perforated cable tray (metallic) 51x316mm  5.1.10 metallic-perforated cable tray (metallic) 51x412mm  5.1.11 metallic cover 75mm ml  5.1.12 metallic cover 123mm ml  5.1.13 metallic cover 195mm ml  5.1.14 metallic cover 316mm ml  5.1.15 metallic cover 412mm ml  5.1.16 metallic cable ladder 100x200mm ml  5.1.17 metallic cable ladder 100x300mm ml  5.1.18 metallic cable ladder 100x400mm ml  5.1.19 metallic cable ladder 100x500mm ml  5.1.20 metallic cover for cable ladder ml  200mm  5.1.21 metallic cover for cable ladder ml  300mm  5.1.22 metallic cover for cable ladder ml  400mm  5.1.23 metallic cover for cable ladder ml  500mm	5.1.6	metallic-perforated cable tray	ml	
5.1.8 metallic-perforated cable tray (metallic) 51x195mm  5.1.9 metallic-perforated cable tray (metallic) 51x316mm  5.1.10 metallic-perforated cable tray (metallic) 51x412mm  5.1.11 metallic cover 75mm ml  5.1.12 metallic cover 123mm ml  5.1.13 metallic cover 195mm ml  5.1.14 metallic cover 316mm ml  5.1.15 metallic cover 412mm ml  5.1.16 metallic cable ladder 100x200mm ml  5.1.17 metallic cable ladder 100x300mm ml  5.1.18 metallic cable ladder 100x400mm ml  5.1.19 metallic cable ladder 100x500mm ml  5.1.20 metallic cover for cable ladder ml  300mm  5.1.21 metallic cover for cable ladder ml  300mm  5.1.22 metallic cover for cable ladder ml  400mm  5.1.23 metallic cover for cable ladder ml  500mm	5.1.7	metallic-perforated cable tray	ml	
5.1.9 metallic-perforated cable tray (metallic) 51x316mm  5.1.10 metallic-perforated cable tray (metallic) 51x412mm  5.1.11 metallic cover 75mm ml  5.1.12 metallic cover 123mm ml  5.1.13 metallic cover 195mm ml  5.1.14 metallic cover 316mm ml  5.1.15 metallic cover 412mm ml  5.1.16 metallic cable ladder 100x200mm ml  5.1.17 metallic cable ladder 100x300mm ml  5.1.18 metallic cable ladder 100x400mm ml  5.1.19 metallic cable ladder 100x500mm ml  5.1.20 metallic cover for cable ladder 300mm  5.1.21 metallic cover for cable ladder ml  300mm  5.1.22 metallic cover for cable ladder ml  400mm  5.1.23 metallic cover for cable ladder ml  500mm	5.1.8	metallic-perforated cable tray	ml	
5.1.10 metallic-perforated cable tray (metallic) 51x412mm  5.1.11 metallic cover 75mm ml  5.1.12 metallic cover 123mm ml  5.1.13 metallic cover 195mm ml  5.1.14 metallic cover 316mm ml  5.1.15 metallic cover 412mm ml  5.1.16 metallic cable ladder 100x200mm ml  5.1.17 metallic cable ladder 100x300mm ml  5.1.18 metallic cable ladder 100x400mm ml  5.1.19 metallic cable ladder 100x500mm ml  5.1.20 metallic cover for cable ladder 100x500mm  5.1.21 metallic cover for cable ladder ml  300mm  5.1.22 metallic cover for cable ladder ml  400mm  5.1.23 metallic cover for cable ladder ml  500mm	5.1.9	metallic-perforated cable tray	ml	
5.1.11 metallic cover 75mm ml 5.1.12 metallic cover 123mm ml 5.1.13 metallic cover 195mm ml 5.1.14 metallic cover 316mm ml 5.1.15 metallic cover 412mm ml 5.1.16 metallic cable ladder 100x200mm ml 5.1.17 metallic cable ladder 100x300mm ml 5.1.18 metallic cable ladder 100x400mm ml 5.1.19 metallic cable ladder 100x500mm ml 5.1.20 metallic cover for cable ladder ml 200mm 5.1.21 metallic cover for cable ladder ml 300mm 5.1.22 metallic cover for cable ladder ml 400mm 5.1.23 metallic cover for cable ladder ml 500mm	5.1.10	metallic-perforated cable tray	ml	
5.1.13 metallic cover 195mm ml 5.1.14 metallic cover 316mm ml 5.1.15 metallic cover 412mm ml 5.1.16 metallic cable ladder 100x200mm ml 5.1.17 metallic cable ladder 100x300mm ml 5.1.18 metallic cable ladder 100x400mm ml 5.1.19 metallic cable ladder 100x500mm ml 5.1.20 metallic cover for cable ladder 200mm 5.1.21 metallic cover for cable ladder ml 300mm 5.1.22 metallic cover for cable ladder ml 400mm 5.1.23 metallic cover for cable ladder ml 500mm	5.1.11		ml	
5.1.14 metallic cover 316mm ml 5.1.15 metallic cover 412mm ml 5.1.16 metallic cable ladder 100x200mm ml 5.1.17 metallic cable ladder 100x300mm ml 5.1.18 metallic cable ladder 100x400mm ml 5.1.19 metallic cable ladder 100x500mm ml 5.1.20 metallic cover for cable ladder ml 200mm 5.1.21 metallic cover for cable ladder ml 300mm 5.1.22 metallic cover for cable ladder ml 400mm 5.1.23 metallic cover for cable ladder ml 500mm	5.1.12	metallic cover 123mm	ml	
5.1.15 metallic cover 412mm ml 5.1.16 metallic cable ladder 100x200mm ml 5.1.17 metallic cable ladder 100x300mm ml 5.1.18 metallic cable ladder 100x400mm ml 5.1.19 metallic cable ladder 100x500mm ml 5.1.20 metallic cover for cable ladder ml 200mm 5.1.21 metallic cover for cable ladder ml 300mm 5.1.22 metallic cover for cable ladder ml 400mm 5.1.23 metallic cover for cable ladder ml 500mm	5.1.13	metallic cover 195mm	ml	
5.1.16 metallic cable ladder 100x200mm ml 5.1.17 metallic cable ladder 100x300mm ml 5.1.18 metallic cable ladder 100x400mm ml 5.1.19 metallic cable ladder 100x500mm ml 5.1.20 metallic cover for cable ladder ml 200mm 5.1.21 metallic cover for cable ladder ml 300mm 5.1.22 metallic cover for cable ladder ml 400mm 5.1.23 metallic cover for cable ladder ml 500mm	5.1.14	metallic cover 316mm	ml	
5.1.17 metallic cable ladder 100x300mm ml 5.1.18 metallic cable ladder 100x400mm ml 5.1.19 metallic cable ladder 100x500mm ml 5.1.20 metallic cover for cable ladder ml 200mm 5.1.21 metallic cover for cable ladder ml 300mm 5.1.22 metallic cover for cable ladder ml 400mm 5.1.23 metallic cover for cable ladder ml 500mm	5.1.15	metallic cover 412mm	ml	
5.1.18 metallic cable ladder 100x400mm ml 5.1.19 metallic cable ladder 100x500mm ml 5.1.20 metallic cover for cable ladder 200mm 5.1.21 metallic cover for cable ladder ml 300mm 5.1.22 metallic cover for cable ladder ml 400mm 5.1.23 metallic cover for cable ladder ml 500mm	5.1.16	metallic cable ladder 100x200mm	ml	
5.1.19 metallic cable ladder 100x500mm ml 5.1.20 metallic cover for cable ladder 200mm  5.1.21 metallic cover for cable ladder ml 300mm  5.1.22 metallic cover for cable ladder ml 400mm  5.1.23 metallic cover for cable ladder ml 500mm	5.1.17	metallic cable ladder 100x300mm	ml	
5.1.20 metallic cover for cable ladder 200mm  5.1.21 metallic cover for cable ladder 300mm  5.1.22 metallic cover for cable ladder 400mm  5.1.23 metallic cover for cable ladder ml 500mm	5.1.18	metallic cable ladder 100x400mm	ml	
200mm  5.1.21 metallic cover for cable ladder ml 300mm  5.1.22 metallic cover for cable ladder ml 400mm  5.1.23 metallic cover for cable ladder ml 500mm	5.1.19	metallic cable ladder 100x500mm	ml	
5.1.21 metallic cover for cable ladder ml 300mm  5.1.22 metallic cover for cable ladder ml 400mm  5.1.23 metallic cover for cable ladder ml 500mm	5.1.20	-	ml	
5.1.22 metallic cover for cable ladder ml 400mm 5.1.23 metallic cover for cable ladder ml 500mm	5.1.21	metallic cover for cable ladder	ml	
5.1.23 metallic cover for cable ladder ml 500mm	5.1.22	metallic cover for cable ladder	ml	
	5.1.23	metallic cover for cable ladder	ml	
	5.1.24		ml	

Prices must include the supply, installation and the accessories (supports, splint, ankle, screws, bolts, washers, holes, elbow, turn). 1 support each 2m. Sizes may vary from +/-20% depending of the manufacturer

5.1.25



metallic cover 100mm

ml

0.2.20		
5.1.26	MRL tube D20mm	ml
5.1.27	MRL tube D25mm	ml
5.1.28	MRL tube D32mm	ml
5.1.29	MRL tube D40mm	ml
5.1.30	capri flexible steel duct 11mm	ml
5.1.31	capri flexible steel duct 13mm	ml
5.1.32	capri flexible steel duct 16mm	ml
5.1.33	capri flexible steel duct 21mm	ml
5.2	Plastic-PVC-Polypropylene-polymer	
5.2.1	1 compartment Trunk 40x40mm	ml
5.2.2	1 compartment Trunk 60x40mm	ml
5.2.3	1 compartment Trunk 80x60mm	ml
5.2.4	1 compartment Trunk 100x60mm	ml
5.2.5	1 compartment Trunk 150x60mm	ml
5.2.6	1 compartment Trunk 200x80mm	ml
5.2.7	2 compartment Trunk 100x60mm	ml
5.2.8	2 compartment Trunk 150x60mm	ml
5.2.9	2 compartment Trunk 200x60mm	ml
5.2.10	ICTA flexible duct 16mm	ml
5.2.11	ICTA flexible duct 20mm	ml
5.2.12	ICTA flexible duct 25mm	ml
5.2.13	ICTA flexible duct 32mm	ml
5.2.14	ICTA flexible duct 40mm	ml
5.2.15	TPC Duct (red or green) 40mm	ml
5.2.16	TPC Duct (red or green) 63mm	ml
5.2.17	TPC Duct (red or green) 90mm	ml
5.2.18	TPC Duct (red or green) 110mm	ml
5.2.19	IRL tube 16mm	ml
5.2.20	IRL tube 20mm	ml
5.2.21	IRL tube 25mm	ml
5.2.22	IRL tube 32mm	ml
5.2.23	IRL tube 40mm	ml
6-Electric	al boards-Junction box	
6.1	metallic enclosure	
6.1.1	IP66-IK10 H300xL300XP200	unit

Prices must include the supply, installation and the accessories (supports, plugs, splint, clip, ankle, screws, washers, bolts, holes, elbow, turn). Trunk comprises the bottom and a cover. Sizes may vary from +/-20% depending of the manufacturer. Trunks are white, ducts and tubes are grey except if the color is indicated in the table.

6.1.1 unit IP66-IK10 H300xL300XP200 6.1.2 IP66-IK10 H400xL300XP200 unit 6.1.3 IP66-IK10 H500xL400XP250 unit 6.1.4 IP66-IK10 H600xL400XP250 unit 6.1.5 IP66-IK10 H800xL600XP300 unit 6.1.6 IP66-IK10 H1000xL800XP300 unit 6.1.7 IP66-IK10 H1200xL800XP400 unit 6.1.8 IP66-IK10 Junction box (with unit terminal bloc) 150x150x80 6.1.9 IP66-IK10 Junction box (with unit terminal bloc) 200x200x80

Price includes the supply, installation (fixation-commissioning) and necessary accessories (solid door with 405 lock, internal chassis, earthing busbar, internal trunk, rail, hole, ankle, screw, bolt, washer).



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6.1.10	IP66-IK10 Junction box (with	unit
	terminal bloc) 300x300x120	
6.1.11	IP66-IK10 Junction box (with	unit
	terminal bloc) 400x400x120	
6.2	Plastic-PVC-Polypropylene-polym	er enclosure
6.2.1	IP65-IK09 6 modules	unit
6.2.2	IP65-IK09 12 modules	unit
6.2.3	IP65-IK09 16 modules	unit
6.2.4	IP65-IK09 24 modules	unit
6.2.5	IP65-IK09 36 modules	unit
6.2.6	IP55-IK08 80x80x45mm	unit
6.2.7	IP55-IK08 105x105x55mm	unit
6.2.8	IP55-IK08 130x130x74mm	unit

7-Enclosure internal equipment (indicator-commutation-protection-connection-labelling-heater-light-transformer-SPD....)

7.1	various accessories	
7.1.1	Tri-led voltage presence indicator	unit
7.1.2	2 positions commutator	unit
7.1.3	3 positions commutator	unit
7.1.4	push button	unit
7.1.5	emergency stop button front	unit
	mounting	
7.1.6	plan pocket	unit
7.1.7	engraved labels 10x10mm	unit
7.1.8	engraved labels 30x20mm	unit
7.1.9	engraved labels 50x20mm	unit
7.1.10	engraved labels 70x20mm	unit
7.1.11	engraved labels 100x30mm	unit
7.1.12	engraved labels 100x100mm	unit
7.1.13	Cable Tag 15x95mm	unit
7.1.14	Cable Tag 13x57mm	unit
7.1.15	wiring tags	unit
7.1.16	Hélévia wiring sleeves (various	unit
	colour)	
7.1.17	BB brass terminal 17mm	unit
7.1.18	Plastic cable gland PG11 or ISO	unit
	equivalent	
7.1.19	Plastic cable gland PG16 or ISO	unit
	equivalent	
7.1.20	Plastic cable gland PG29 or ISO	unit
7.1.21	equivalent	unit
7.1.21	Plastic cable gland PG36 or ISO equivalent	unit
7.1.22	Plastic cable gland PG42 or ISO	unit
, . ± . ∠ ∠	equivalent	47776
7.1.23	Plastic cable gland PG48 or ISO	unit
	equivalent	

Price includes the supply, installation/connections and accessories. Installation could be in a new or in an existing electrical boards. For example a circuit breaker includes implicitly the internal wiring, terminals, labels, sleeves, wiring tags. Accessories can be installed individually (for example in order to fix a non conformity raised during a legal inspection)

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7.1.24 Metallic cable gland PG11 or ISO equivalent 7.1.25 Metallic cable gland PG16 or ISO equivalent 7.1.26 Metallic cable gland PG29 or ISO equivalent 7.1.27 Metallic cable gland PG36 or ISO equivalent 7.1.28 Metallic cable gland PG42 or ISO equivalent 7.1.29 Metallic cable gland PG48 or ISO equivalent 7.1.29 Metallic cable gland PG48 or ISO equivalent 7.1.30 Heating resistor Climasys 250VAC-20W 7.1.31 internal lighting device 400mm-230VAC class 2 7.1.32 security transformer legrand unit 044235 250VA 7.1.33 security transformer legrand unit 044236 250VA 7.1.34 separation transformer legrand unit 044267 630VA separation transformer legrand unit 044268 1000VA 7.1.36 separation transformer legrand unit 044268 1000VA 7.2 Connection 7.2.2 terminal bloc 1.5mm² unit terminal bloc 4mm² unit terminal bloc 5mm² unit terminal bloc 10mm² unit terminal bloc 10mm² unit terminal bloc 15mm² unit terminal bloc 5mm² unit terminal bloc 50mm² unit terminal bloc 50	7.1.24	FIGUR FIGUREAU MANAGE		
7.1.25 Metallic cable gland PG16 or ISO equivalent 7.1.26 Metallic cable gland PG29 or ISO unit equivalent 7.1.27 Metallic cable gland PG36 or ISO equivalent 7.1.28 Metallic cable gland PG42 or ISO equivalent 7.1.29 Metallic cable gland PG48 or ISO unit equivalent 7.1.20 Metallic cable gland PG48 or ISO unit equivalent 7.1.30 Heating resistor Climasys 250VAC-20W 7.1.31 Internal lighting device 400mm-230VAC class 2 7.1.32 security transformer legrand unit 044235 250VA 7.1.33 security transformer legrand unit 044265 250VA 7.1.34 separation transformer legrand unit 044267 630VA 7.1.35 separation transformer legrand unit 044267 630VA 7.1.36 separation transformer legrand unit 044268 1000VA 7.2 Connection 7.2.2 terminal bloc 1.5mm² unit unit 2.2.3 terminal bloc 2.5mm² unit 2.2.4 terminal bloc 4mm² unit 2.2.5 terminal bloc 6mm² unit 2.2.6 terminal bloc 10mm² unit 2.2.7 terminal bloc 10mm² unit 2.2.8 terminal bloc 25mm² unit 2.2.9 terminal bloc 50mm² unit 2.2.1 terminal bloc 50mm² unit 2.2.1 Distribution bloc 125A unit 2.2.1 Distribution bloc 125A unit 2.2.13 Distribution bloc 250A unit 2.2.13 Distribution bloc 250A unit 2.2.13 Distribution bloc 250A unit 2.3.3 iDT40N 1P+N-10 to 16A-curve C-10kA unit 2.3.3 iDT40N 1P+N-10 to 16A-curve C-10kA unit 2.3.3 iDT40N 1P+N-10 to 16A-curve C-10kA unit 2.3.3 iDT40N 1P+N-25A-curve C-10kA unit 2.3.3 iDT40N 1P+N-25A		_	unit	
7.1.26 Metallic cable gland PG29 or ISO equivalent 7.1.27 Metallic cable gland PG36 or ISO equivalent 7.1.28 Metallic cable gland PG42 or ISO equivalent 7.1.29 Metallic cable gland PG48 or ISO equivalent 7.1.30 Heating resistor Climasys 250VAC-20W 7.1.31 internal lighting device 400mm-230VAC class 2 7.1.32 security transformer legrand ov4235 250VA 7.1.33 security transformer legrand unit 044236 250VA 7.1.34 separation transformer legrand unit 044265 250VA 7.1.35 separation transformer legrand unit 044267 630VA 7.1.36 separation transformer legrand unit 044268 1000VA 7.2 Connection 7.2.2 terminal bloc 1.5mm² unit variable terminal bloc 4mm² unit terminal bloc 4mm² unit terminal bloc 6mm² unit terminal bloc 16mm² unit terminal bloc 15mm² unit terminal bloc 25mm² unit terminal bloc 50mm² unit Distribution bloc 125A unit Distribution bloc 125A unit Distribution bloc 250A unit Circuit Breaker 7.3.1 iD140N 1P+N-1 to 6A-curve C-10kA unit iD140N 1P+N-25A-curve C-10kA unit iD140N 1P		·		
7.1.26 Metallic cable gland PG29 or ISO equivalent 7.1.27 Metallic cable gland PG36 or ISO unit equivalent 7.1.28 Metallic cable gland PG42 or ISO equivalent 7.1.29 Metallic cable gland PG48 or ISO unit equivalent 7.1.30 Heating resistor Climasys 250VAC-20W 7.1.31 internal lighting device 400mm-230VAC class 2 7.1.32 security transformer legrand unit 044235 250VA 7.1.33 security transformer legrand unit 044236 400VA 7.1.34 separation transformer legrand unit 044265 250VA 7.1.35 separation transformer legrand unit 044267 630VA 7.1.36 separation transformer legrand unit 044268 1000VA 7.2 Connection 7.2.2 terminal bloc 1.5mm² unit terminal bloc 4mm² unit terminal bloc 4mm² unit 7.2.4 terminal bloc 6mm² unit 1.2.5 terminal bloc 10mm² unit 1.2.7 terminal bloc 10mm² unit 1.2.7 terminal bloc 15mm² unit 1.2.7 terminal bloc 15mm² unit 1.2.9 terminal bloc 50mm² unit 1.2.10 terminal bloc 50mm² unit 1.2.11 Distribution bloc 160A unit 1.2.12 Distribution bloc 250A unit 1.2.13 Distribution bloc 250A unit 1.2.14 iDT40N 1P+N-1 to 6A-curve C-10kA unit 10kA 7.3.2 iDT40N 1P+N-1 to 6A-curve C-10kA unit 10tA	7.1.25	_	unit	
equivalent 7.1.27 Metallic cable gland PG36 or ISO equivalent 7.1.28 Metallic cable gland PG42 or ISO equivalent 7.1.29 Metallic cable gland PG48 or ISO equivalent 7.1.30 Heating resistor Climasys 250VAC-20W 7.1.31 internal lighting device 400mm-230VAC class 2 7.1.32 security transformer legrand o44235 250VA 7.1.33 security transformer legrand unit 044265 250VA 7.1.34 separation transformer legrand unit 044267 630VA 7.1.35 separation transformer legrand unit 044268 1000VA 7.2 Connection 7.2.2 terminal bloc 1.5mm² unit 12.3 terminal bloc 2.5mm² unit 12.4 terminal bloc 4mm² unit 12.5 terminal bloc 10mm² unit 12.6 terminal bloc 16mm² unit 12.7.2 terminal bloc 15mm² unit 12.8 terminal bloc 15mm² unit 15.8 terminal bloc 15mm² unit 15.9 terminal bloc 15mm² unit 15.9 terminal bloc 15mm² unit 15.9 terminal bloc 15mm² unit 15.2 terminal bloc 25mm² unit 15.2 terminal bloc 250m² unit 15.2 terminal bloc 250m² unit 15.2 terminal bloc 250A unit 15.2 Distribution bloc 250A unit 15.3 Distribution	7.1.20	•		
equivalent 7.1.28 Metallic cable gland PG42 or ISO equivalent 7.1.29 Metallic cable gland PG48 or ISO equivalent 7.1.30 Heating resistor Climasys 250VAC-20W 7.1.31 internal lighting device 400mm-230VAC class 2 7.1.32 security transformer legrand o44235 250VA 7.1.33 security transformer legrand unit 044236 400VA 7.1.34 separation transformer legrand unit 044265 250VA 7.1.35 separation transformer legrand unit 044265 250VA 7.1.36 separation transformer legrand unit 044268 1000VA 7.2 Connection 7.2.2 terminal bloc 1.5mm² unit 1.2.3 terminal bloc 4mm² unit 1.2.4 terminal bloc 4mm² unit 1.2.5 terminal bloc 6mm² unit 1.2.6 terminal bloc 10mm² unit 1.2.7 terminal bloc 16mm² unit 1.2.8 terminal bloc 25mm² unit 1.2.9 terminal bloc 35mm² unit 1.2.9 terminal bloc 50mm² unit 1.2.10 Distribution bloc 125A unit 1.2.11 Distribution bloc 160A unit 1.2.13 Distribution bloc 250A unit 1.2.14 Distribution bloc 250A unit 1.2.15 Distribution bloc 250A unit 1.2.16 Distribution bloc 250A unit 1.2.17 Lipidon 1P+N-1 to 6A-curve C-10kA unit 1.2.18 iDT40N 1P+N-10 to 16A-curve C-10kA unit 1.2.3 iDT40N 1P+N-10 to 16A-curve C-10kA unit 1.2.3 iDT40N 1P+N-10 to 16A-curve C-10kA unit 1.2.3 iDT40N 1P+N-25A-curve C-10kA unit 1.2.4 iDT40N 1P+N-25A-curve C-10kA unit 1.2.4 iDT40N 1P+N-25A-curve C-10kA un	7.1.26	_	unit	
7.1.28 Metallic cable gland PG42 or ISO equivalent 7.1.29 Metallic cable gland PG48 or ISO equivalent 7.1.30 Heating resistor Climasys 250VAC-20W 7.1.31 internal lighting device 400mm-230VAC class 2 7.1.32 security transformer legrand unit 044235 250VA 7.1.33 security transformer legrand unit 044265 250VA 7.1.34 separation transformer legrand unit 044265 250VA 7.1.35 separation transformer legrand unit 044265 250VA 7.1.36 separation transformer legrand unit 044268 1000VA 7.2 Connection 7.2.2 terminal bloc 1.5mm² unit 1.2.4 terminal bloc 4mm² unit 1.2.5 terminal bloc 6mm² unit 1.2.6 terminal bloc 10mm² unit 1.2.7 terminal bloc 16mm² unit 1.2.7 terminal bloc 25mm² unit 1.2.8 terminal bloc 35mm² unit 1.2.9 terminal bloc 35mm² unit 1.2.9 terminal bloc 50mm² unit 1.2.10 Distribution bloc 125A unit 1.2.11 Distribution bloc 160A unit 1.2.12 Distribution bloc 250A unit 1.2.13 Distribution bloc 250A unit 1.2.14 Distribution bloc 250A unit 1.2.15 Distribution bloc 250A unit 1.2.16 Distribution bloc 250A unit 1.2.17 Distribution bloc 250A unit 1.2.18 Distribution bloc 250A unit 1.2.19 Distribution bloc 250A unit 1.2.10 Liptal 1.2.11 Distribution bloc 250A unit 1.2.12 Distribution bloc 250A unit 1.2.13 Distribution bloc 250A unit 1.2.14 Distribution bloc 250A unit 1.2.15 Liptal 1.2.16 Distribution bloc 250A unit 1.2.17 Liptal 1.2.18 Distribution bloc 250A unit 1.2.19 Liptal 1.2	7.1.27	_	unit	
7.1.29 Metallic cable gland PG48 or ISO equivalent 7.1.30 Heating resistor Climasys 250VAC-20W 7.1.31 internal lighting device 400mm-230VAC class 2 7.1.32 security transformer legrand unit 044235 250VA 7.1.33 security transformer legrand unit 044236 400VA 7.1.34 separation transformer legrand unit 044265 250VA 7.1.35 separation transformer legrand unit 044267 630VA 7.1.36 separation transformer legrand unit 044268 1000VA 7.2 Connection 7.2.2 terminal bloc 1.5mm² unit 1.2.3 terminal bloc 4mm² unit 1.2.4 terminal bloc 4mm² unit 1.2.5 terminal bloc 10mm² unit 1.2.6 terminal bloc 10mm² unit 1.2.7 terminal bloc 16mm² unit 1.2.8 terminal bloc 25mm² unit 1.2.9 terminal bloc 35mm² unit 1.2.9 terminal bloc 50mm² unit 1.2.10 terminal bloc 50mm² unit 1.2.11 Distribution bloc 125A unit 1.2.12 Distribution bloc 160A unit 1.2.13 Distribution bloc 250A unit 1.2.13 Distribution bloc 250A unit 1.3.2 iDT40N 1P+N-10 to 16A-curve C-10kA unit 1.3.3 iDT40N 1P+N-10 to 16A-curve C-10kA unit	7.1.28	Metallic cable gland PG42 or ISO	unit	
equivalent 7.1.30 Heating resistor Climasys 250VAC- 20W 7.1.31 internal lighting device 400mm- 230VAC class 2 7.1.32 security transformer legrand 044235 250VA 7.1.33 security transformer legrand 044236 400VA 7.1.34 separation transformer legrand 044265 250VA 7.1.35 separation transformer legrand 044267 630VA 7.1.36 separation transformer legrand 044268 1000VA 7.2 Connection 7.2.2 terminal bloc 1.5mm² unit 7.2.3 terminal bloc 2.5mm² unit 7.2.4 terminal bloc 6mm² unit 7.2.5 terminal bloc 6mm² unit 7.2.6 terminal bloc 16mm² unit 7.2.7 terminal bloc 15mm² unit 7.2.8 terminal bloc 25mm² unit 7.2.9 terminal bloc 50mm² unit 7.2.10 terminal bloc 50mm² unit 7.2.11 Distribution bloc 125A unit 7.2.12 Distribution bloc 160A unit 7.2.13 Distribution bloc 250A unit 7.3.1 iDT40N 1P+N-1 to 6A-curve C-10kA unit 7.3.2 iDT40N 1P+N-10 to 16A-curve C- 10kA 7.3.3 iDT40N 1P+N-25A-curve C-10kA unit		•		
7.1.30 Heating resistor Climasys 250VAC- 20W 7.1.31 internal lighting device 400mm- 230VAC class 2 7.1.32 security transformer legrand 044235 250VA 7.1.33 security transformer legrand 044236 400VA 7.1.34 separation transformer legrand 044267 630VA 7.1.35 separation transformer legrand 044268 1000VA 7.1.36 separation transformer legrand 044268 1000VA 7.2 Connection 7.2.2 terminal bloc 1.5mm² unit 7.2.3 terminal bloc 2.5mm² unit 7.2.4 terminal bloc 4mm² unit 7.2.5 terminal bloc 6mm² unit 7.2.6 terminal bloc 10mm² unit 7.2.7 terminal bloc 16mm² unit 7.2.8 terminal bloc 25mm² unit 7.2.9 terminal bloc 50mm² unit 7.2.10 terminal bloc 50mm² unit 7.2.11 Distribution bloc 125A unit 7.2.12 Distribution bloc 160A unit 7.2.13 Distribution bloc 250A unit 7.3.1 iDT40N 1P+N-1 to 6A-curve C-10kA unit 7.3.2 iDT40N 1P+N-10 to 16A-curve C- 10kA 7.3.3 iDT40N 1P+N-25A-curve C-10kA unit	7.1.29	_	unit	
7.1.32 security transformer legrand 044235 250VA 7.1.33 security transformer legrand 044236 400VA 7.1.34 separation transformer legrand 044265 250VA 7.1.35 separation transformer legrand 044267 630VA 7.1.36 separation transformer legrand 044268 1000VA 7.2 Connection 7.2.2 terminal bloc 1.5mm² unit 7.2.3 terminal bloc 2.5mm² unit 7.2.4 terminal bloc 4mm² unit 7.2.5 terminal bloc 6mm² unit 7.2.6 terminal bloc 10mm² unit 7.2.7 terminal bloc 25mm² unit 7.2.8 terminal bloc 35mm² unit 7.2.9 terminal bloc 50mm² unit 7.2.10 terminal bloc 50mm² unit 7.2.11 Distribution bloc 125A unit 7.2.12 Distribution bloc 160A unit 7.3.1 iDT40N 1P+N-1 to 6A-curve C-10kA unit 7.3.2 iDT40N 1P+N-10 to 16A-curve C-10kA unit 10T40N 1P+N-10 to 16A-curve C-10kA unit 10T40N 1P+N-25A-curve C-10kA unit 10T40N	7.1.30	Heating resistor Climasys 250VAC-	unit	
7.1.33 security transformer legrand 044236 400VA 7.1.34 separation transformer legrand 044265 250VA 7.1.35 separation transformer legrand 044267 630VA 7.1.36 separation transformer legrand 044268 1000VA 7.2 Connection 7.2.2 terminal bloc 1.5mm² unit 7.2.3 terminal bloc 2.5mm² unit 7.2.4 terminal bloc 4mm² unit 7.2.5 terminal bloc 10mm² unit 7.2.6 terminal bloc 16mm² unit 7.2.7 terminal bloc 15mm² unit 7.2.8 terminal bloc 15mm² unit 7.2.9 terminal bloc 35mm² unit 7.2.9 terminal bloc 50mm² unit 7.2.10 terminal bloc 50mm² unit 7.2.11 Distribution bloc 125A unit 7.2.12 Distribution bloc 160A unit 7.2.13 Distribution bloc 250A unit 7.3.1 iDT40N 1P+N-1 to 6A-curve C-10kA unit 10kA 7.3.3 iDT40N 1P+N-10 to 16A-curve C-10kA unit 10kA 7.3.3 iDT40N 1P+N-25A-curve C-10kA unit	7.1.31		unit	
7.1.33 security transformer legrand 044236 400VA 7.1.34 separation transformer legrand 044265 250VA 7.1.35 separation transformer legrand 044267 630VA 7.1.36 separation transformer legrand 044268 1000VA 7.2 Connection 7.2.2 terminal bloc 1.5mm² unit 7.2.3 terminal bloc 2.5mm² unit 7.2.4 terminal bloc 4mm² unit 7.2.5 terminal bloc 10mm² unit 7.2.6 terminal bloc 16mm² unit 7.2.7 terminal bloc 25mm² unit 7.2.8 terminal bloc 25mm² unit 7.2.9 terminal bloc 35mm² unit 7.2.10 terminal bloc 50mm² 7.2.11 Distribution bloc 125A unit 7.2.12 Distribution bloc 160A unit 7.3.1 iDT40N 1P+N-1 to 6A-curve C-10kA unit 7.3.2 iDT40N 1P+N-10 to 16A-curve C- 10kA 7.3.3 iDT40N 1P+N-25A-curve C-10kA unit	7.1.32		unit	
7.1.34 separation transformer legrand 044265 250VA 7.1.35 separation transformer legrand 044267 630VA 7.1.36 separation transformer legrand 044268 1000VA 7.2 Connection 7.2.2 terminal bloc 1.5mm² unit 1.2.3 terminal bloc 2.5mm² unit 1.2.4 terminal bloc 6mm² unit 1.2.5 terminal bloc 10mm² unit 1.2.7 terminal bloc 16mm² unit 1.2.7 terminal bloc 15mm² unit 1.2.8 terminal bloc 25mm² unit 1.2.9 terminal bloc 25mm² unit 1.2.9 terminal bloc 50mm² unit 1.2.10 terminal bloc 50mm² unit 1.2.11 Distribution bloc 150A unit 1.2.12 Distribution bloc 150A unit 1.2.13 Distribution bloc 250A unit 1.2.14 Distribution bloc 250A unit 1.2.15 Distribution bloc 250A unit 1.2.16 Distribution bloc 250A unit 1.2.17 Distribution bloc 250A unit 1.2.18 Distribution bloc 250A unit 1.2.2.19 Library Libr	7.1.33	security transformer legrand	unit	
7.1.35 separation transformer legrand 044267 630VA 7.1.36 separation transformer legrand 044268 1000VA  7.2 Connection 7.2.2 terminal bloc 1.5mm² unit 7.2.3 terminal bloc 2.5mm² unit 7.2.4 terminal bloc 4mm² unit 7.2.5 terminal bloc 6mm² unit 7.2.6 terminal bloc 10mm² unit 7.2.7 terminal bloc 16mm² unit 7.2.8 terminal bloc 25mm² unit 7.2.9 terminal bloc 35mm² unit 7.2.10 terminal bloc 50mm² unit 7.2.11 Distribution bloc 125A unit 7.2.12 Distribution bloc 160A unit 7.2.13 Distribution bloc 250A unit 7.3.1 iDT40N 1P+N-1 to 6A-curve C-10kA unit 10kA  7.3.3 iDT40N 1P+N-10 to 16A-curve C- unit 10kA  7.3.3 iDT40N 1P+N-25A-curve C-10kA unit	7.1.34	separation transformer legrand	unit	
7.1.36 separation transformer legrand 044268 1000VA  7.2 Connection  7.2.2 terminal bloc 1.5mm² unit  7.2.3 terminal bloc 2.5mm² unit  7.2.4 terminal bloc 6mm² unit  7.2.5 terminal bloc 10mm² unit  7.2.6 terminal bloc 16mm² unit  7.2.7 terminal bloc 25mm² unit  7.2.8 terminal bloc 25mm² unit  7.2.9 terminal bloc 35mm² unit  7.2.10 terminal bloc 50mm² unit  7.2.11 Distribution bloc 125A unit  7.2.12 Distribution bloc 160A unit  7.2.13 Distribution bloc 250A unit  7.3.1 iDT40N 1P+N-10 to 16A-curve C-10kA unit  7.3.2 iDT40N 1P+N-10 to 16A-curve C-10kA  7.3.3 iDT40N 1P+N-25A-curve C-10kA unit	7.1.35	separation transformer legrand	unit	
7.2.2 terminal bloc 1.5mm² unit 7.2.3 terminal bloc 2.5mm² unit 7.2.4 terminal bloc 4mm² unit 7.2.5 terminal bloc 6mm² unit 7.2.6 terminal bloc 10mm² unit 7.2.7 terminal bloc 16mm² unit 7.2.8 terminal bloc 25mm² unit 7.2.9 terminal bloc 35mm² unit 7.2.10 terminal bloc 50mm² unit 7.2.11 Distribution bloc 125A unit 7.2.12 Distribution bloc 160A unit 7.2.13 Distribution bloc 250A unit 7.3.1 iDT40N 1P+N-1 to 6A-curve C-10kA unit 7.3.2 iDT40N 1P+N-10 to 16A-curve C- 10kA 7.3.3 iDT40N 1P+N-25A-curve C-10kA unit	7.1.36	separation transformer legrand	unit	
7.2.2 terminal bloc 1.5mm² unit 7.2.3 terminal bloc 2.5mm² unit 7.2.4 terminal bloc 4mm² unit 7.2.5 terminal bloc 6mm² unit 7.2.6 terminal bloc 10mm² unit 7.2.7 terminal bloc 16mm² unit 7.2.8 terminal bloc 25mm² unit 7.2.9 terminal bloc 35mm² unit 7.2.10 terminal bloc 50mm² unit 7.2.11 Distribution bloc 125A unit 7.2.12 Distribution bloc 160A unit 7.2.13 Distribution bloc 250A unit 7.3.1 iDT40N 1P+N-1 to 6A-curve C-10kA unit 7.3.2 iDT40N 1P+N-10 to 16A-curve C- 10kA 7.3.3 iDT40N 1P+N-25A-curve C-10kA unit	7.2			
7.2.4 terminal bloc 4mm² unit 7.2.5 terminal bloc 6mm² unit 7.2.6 terminal bloc 10mm² unit 7.2.7 terminal bloc 16mm² unit 7.2.8 terminal bloc 25mm² unit 7.2.9 terminal bloc 35mm² unit 7.2.10 terminal bloc 50mm² unit 7.2.11 Distribution bloc 125A unit 7.2.12 Distribution bloc 160A unit 7.2.13 Distribution bloc 250A unit 7.3.1 iDT40N 1P+N-1 to 6A-curve C-10kA unit 7.3.2 iDT40N 1P+N-10 to 16A-curve C- 10kA 7.3.3 iDT40N 1P+N-25A-curve C-10kA unit			unit	
7.2.5 terminal bloc 6mm² unit 7.2.6 terminal bloc 10mm² unit 7.2.7 terminal bloc 16mm² unit 7.2.8 terminal bloc 25mm² unit 7.2.9 terminal bloc 35mm² unit 7.2.10 terminal bloc 50mm² unit 7.2.11 Distribution bloc 125A unit 7.2.12 Distribution bloc 160A unit 7.2.13 Distribution bloc 250A unit 7.3.1 iDT40N 1P+N-1 to 6A-curve C-10kA unit 7.3.2 iDT40N 1P+N-10 to 16A-curve C- 10kA 7.3.3 iDT40N 1P+N-25A-curve C-10kA unit	7.2.3	terminal bloc 2.5mm²	unit	
7.2.6 terminal bloc 10mm² unit 7.2.7 terminal bloc 16mm² unit 7.2.8 terminal bloc 25mm² unit 7.2.9 terminal bloc 35mm² unit 7.2.10 terminal bloc 50mm² unit 7.2.11 Distribution bloc 125A unit 7.2.12 Distribution bloc 160A unit 7.2.13 Distribution bloc 250A unit 7.3.1 iDT40N 1P+N-1 to 6A-curve C-10kA unit 7.3.2 iDT40N 1P+N-10 to 16A-curve C-10kA 7.3.3 iDT40N 1P+N-25A-curve C-10kA unit	7.2.4	terminal bloc 4mm²	unit	
7.2.7 terminal bloc 16mm² unit 7.2.8 terminal bloc 25mm² unit 7.2.9 terminal bloc 35mm² unit 7.2.10 terminal bloc 50mm² unit 7.2.11 Distribution bloc 125A unit 7.2.12 Distribution bloc 160A unit 7.2.13 Distribution bloc 250A unit 7.3 Circuit Breaker 7.3.1 iDT40N 1P+N-1 to 6A-curve C-10kA unit 7.3.2 iDT40N 1P+N-10 to 16A-curve C- 10kA 7.3.3 iDT40N 1P+N-25A-curve C-10kA unit		terminal bloc 6mm²	unit	
7.2.8 terminal bloc 25mm² unit 7.2.9 terminal bloc 35mm² unit 7.2.10 terminal bloc 50mm² unit 7.2.11 Distribution bloc 125A unit 7.2.12 Distribution bloc 160A unit 7.2.13 Distribution bloc 250A unit 7.3 Circuit Breaker 7.3.1 iDT40N 1P+N-1 to 6A-curve C-10kA unit 7.3.2 iDT40N 1P+N-10 to 16A-curve C-10kA unit 10kA 7.3.3 iDT40N 1P+N-25A-curve C-10kA unit	7.2.5			
7.2.9 terminal bloc 35mm² unit 7.2.10 terminal bloc 50mm² unit 7.2.11 Distribution bloc 125A unit 7.2.12 Distribution bloc 160A unit 7.2.13 Distribution bloc 250A unit 7.3 Circuit Breaker 7.3.1 iDT40N 1P+N-1 to 6A-curve C-10kA unit 7.3.2 iDT40N 1P+N-10 to 16A-curve C-10kA 10kA 7.3.3 iDT40N 1P+N-25A-curve C-10kA unit		terminal bloc 10mm²	unit	
7.2.9 terminal bloc 35mm² unit 7.2.10 terminal bloc 50mm² unit 7.2.11 Distribution bloc 125A unit 7.2.12 Distribution bloc 160A unit 7.2.13 Distribution bloc 250A unit 7.3 Circuit Breaker 7.3.1 iDT40N 1P+N-1 to 6A-curve C-10kA unit 7.3.2 iDT40N 1P+N-10 to 16A-curve C-10kA 10kA 7.3.3 iDT40N 1P+N-25A-curve C-10kA unit	7.2.6			
7.2.11 Distribution bloc 125A unit 7.2.12 Distribution bloc 160A unit 7.2.13 Distribution bloc 250A unit  7.3 Circuit Breaker 7.3.1 iDT40N 1P+N-1 to 6A-curve C-10kA unit 7.3.2 iDT40N 1P+N-10 to 16A-curve C-10kA 10kA  7.3.3 iDT40N 1P+N-25A-curve C-10kA unit	7.2.6 7.2.7	terminal bloc 16mm²	unit	
7.2.12 Distribution bloc 160A unit 7.2.13 Distribution bloc 250A unit  7.3 Circuit Breaker  7.3.1 iDT40N 1P+N-1 to 6A-curve C-10kA unit  7.3.2 iDT40N 1P+N-10 to 16A-curve C-10kA  7.3.3 iDT40N 1P+N-25A-curve C-10kA unit	7.2.6 7.2.7 7.2.8	terminal bloc 16mm² terminal bloc 25mm²	unit unit	
7.2.13 Distribution bloc 250A unit  7.3 Circuit Breaker  7.3.1 iDT40N 1P+N-1 to 6A-curve C-10kA unit  7.3.2 iDT40N 1P+N-10 to 16A-curve C-10kA  7.3.3 iDT40N 1P+N-25A-curve C-10kA unit	7.2.6 7.2.7 7.2.8 7.2.9	terminal bloc 16mm² terminal bloc 25mm² terminal bloc 35mm²	unit unit unit	
7.2.13 Distribution bloc 250A unit  7.3 Circuit Breaker  7.3.1 iDT40N 1P+N-1 to 6A-curve C-10kA unit  7.3.2 iDT40N 1P+N-10 to 16A-curve C- 10kA  7.3.3 iDT40N 1P+N-25A-curve C-10kA unit	7.2.6 7.2.7 7.2.8 7.2.9 7.2.10	terminal bloc 16mm² terminal bloc 25mm² terminal bloc 35mm² terminal bloc 50mm²	unit unit unit unit	
7.3.1 iDT40N 1P+N-1 to 6A-curve C-10kA unit 7.3.2 iDT40N 1P+N-10 to 16A-curve C- 10kA 7.3.3 iDT40N 1P+N-25A-curve C-10kA unit	7.2.6 7.2.7 7.2.8 7.2.9 7.2.10 7.2.11	terminal bloc 16mm² terminal bloc 25mm² terminal bloc 35mm² terminal bloc 50mm² Distribution bloc 125A	unit unit unit unit unit unit	
7.3.2 iDT40N 1P+N-10 to 16A-curve C- 10kA 7.3.3 iDT40N 1P+N-25A-curve C-10kA unit	7.2.6 7.2.7 7.2.8 7.2.9 7.2.10 7.2.11 7.2.12	terminal bloc 16mm² terminal bloc 25mm² terminal bloc 35mm² terminal bloc 50mm² Distribution bloc 125A Distribution bloc 160A	unit unit unit unit unit unit unit unit	
10kA 7.3.3 iDT40N 1P+N-25A-curve C-10kA unit	7.2.6 7.2.7 7.2.8 7.2.9 7.2.10 7.2.11 7.2.12 7.2.13	terminal bloc 16mm² terminal bloc 25mm² terminal bloc 35mm² terminal bloc 50mm² Distribution bloc 125A Distribution bloc 160A Distribution bloc 250A	unit unit unit unit unit unit unit unit	
7.3.3 iDT40N 1P+N-25A-curve C-10kA unit	7.2.6 7.2.7 7.2.8 7.2.9 7.2.10 7.2.11 7.2.12 7.2.13	terminal bloc 16mm² terminal bloc 25mm² terminal bloc 35mm² terminal bloc 50mm² Distribution bloc 125A Distribution bloc 160A Distribution bloc 250A Circuit Breaker	unit unit unit unit unit unit unit unit	
	7.2.6 7.2.7 7.2.8 7.2.9 7.2.10 7.2.11 7.2.12 7.2.13 7.3.1	terminal bloc 16mm² terminal bloc 25mm² terminal bloc 35mm² terminal bloc 50mm² Distribution bloc 125A Distribution bloc 160A Distribution bloc 250A Circuit Breaker iDT40N 1P+N-1 to 6A-curve C-10kA	unit unit unit unit unit unit unit unit	
7.3.4   iDT40N 1P+N-32A-curve C-10kA   unit	7.2.6 7.2.7 7.2.8 7.2.9 7.2.10 7.2.11 7.2.12 7.2.13 7.3.1	terminal bloc 16mm² terminal bloc 25mm² terminal bloc 35mm² terminal bloc 50mm² Distribution bloc 125A Distribution bloc 160A Distribution bloc 250A Circuit Breaker iDT40N 1P+N-1 to 6A-curve C-10kA iDT40N 1P+N-10 to 16A-curve C-	unit unit unit unit unit unit unit unit	
	7.2.6 7.2.7 7.2.8 7.2.9 7.2.10 7.2.11 7.2.12 7.2.13 7.3.1 7.3.2	terminal bloc 16mm² terminal bloc 25mm² terminal bloc 35mm² terminal bloc 50mm² Distribution bloc 125A Distribution bloc 160A Distribution bloc 250A Circuit Breaker iDT40N 1P+N-1 to 6A-curve C-10kA iDT40N 1P+N-10 to 16A-curve C-10kA	unit unit unit unit unit unit unit unit	
7.3.5 iDT40N 1P+N-40A-curve C-10kA unit	7.2.6 7.2.7 7.2.8 7.2.9 7.2.10 7.2.11 7.2.12 7.2.13 7.3.1 7.3.2 7.3.3	terminal bloc 16mm² terminal bloc 25mm² terminal bloc 35mm² terminal bloc 50mm² Distribution bloc 125A Distribution bloc 160A Distribution bloc 250A Circuit Breaker iDT40N 1P+N-1 to 6A-curve C-10kA iDT40N 1P+N-10 to 16A-curve C-10kA iDT40N 1P+N-25A-curve C-10kA	unit unit unit unit unit unit unit unit	
7.3.6 iDD40N 1P+N 32A+rcd30mA-curve unit C-10KA	7.2.6 7.2.7 7.2.8 7.2.9 7.2.10 7.2.11 7.2.12 7.2.13 7.3.1 7.3.2 7.3.3 7.3.4	terminal bloc 16mm² terminal bloc 25mm² terminal bloc 35mm² terminal bloc 50mm² Distribution bloc 125A Distribution bloc 160A Distribution bloc 250A Circuit Breaker iDT40N 1P+N-1 to 6A-curve C-10kA iDT40N 1P+N-25A-curve C-10kA iDT40N 1P+N-25A-curve C-10kA	unit unit unit unit unit unit unit unit	
7.3.7 iDD40N 1P+N 40A+rcd30mA-curve unit C-10KA	7.2.6 7.2.7 7.2.8 7.2.9 7.2.10 7.2.11 7.2.12 7.2.13 7.3.1 7.3.2 7.3.3 7.3.4 7.3.5	terminal bloc 16mm² terminal bloc 25mm² terminal bloc 35mm² terminal bloc 50mm² Distribution bloc 125A Distribution bloc 160A Distribution bloc 250A Circuit Breaker iDT40N 1P+N-1 to 6A-curve C-10kA iDT40N 1P+N-10 to 16A-curve C-10kA iDT40N 1P+N-25A-curve C-10kA iDT40N 1P+N-32A-curve C-10kA iDT40N 1P+N-32A-curve C-10kA iDT40N 1P+N-40A-curve C-10kA	unit unit unit unit unit unit unit unit	



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7.3.8	RCD iDT40 VIGI 1P+N 25A- AC type- 30mA	unit
7.3.9	RCD iDT40 VIGI 1P+N 40A- AC type- 30mA	unit
7.3.10	iC60N 2P-0.5 to 4A-curve C-50kA	unit
7.3.11	iC60N 2P-6 to 16A-curve C-10kA	unit
7.3.12	iC60N 2P-25A-curve C-10kA	unit
7.3.13	iC60N 2P-32A-curve C-10kA	unit
7.3.14	iC60N 2P-40A-curve C-10kA	unit
7.3.15	iC60N 2P-50A-curve C-10kA	unit
7.3.16	iC60N 2P-63A-curve C-10kA	unit
7.3.17	iC60N 2P-6 to 16A-curve B-10kA	unit
7.3.18	iC60N 2P-25A-curve B-10kA	unit
7.3.19	iC60N 2P-32A-curve B-10kA	unit
7.3.20	iC60N 2P-40A-curve B-10kA	unit
7.3.21	iC60N 2P-50A-curve B-10kA	unit
7.3.22	iC60N 2P-63A-curve B-10kA	unit
7.3.23	iC60N 2P-6 to 16A-curve D-10kA	unit
7.3.24	iC60N 2P-25A-curve D-10kA	unit
7.3.25	iC60N 2P-32A-curve D-10kA	unit
7.3.26	iC60N 2P-40A-curve D-10kA	unit
7.3.27	iC60N 2P-50A-curve D-10kA	unit
7.3.28	iC60N 2P-63A-curve D-10kA	unit
7.3.29	iC60L 2P-0.5 to 4A-curve C-100kA	unit
7.3.30	iC60L 2P-6 to 16A-curve C-25kA	unit
7.3.31	iC60L 2P-25A-curve C-25kA	unit
7.3.32	iC60L 2P-32A-curve C-20kA	unit
7.3.33	iC60L 2P-40A-curve C-20kA	unit
7.3.34	iC60L 2P-50A-curve C-15kA	unit
7.3.35	iC60L 2P-63A-curve C-15kA	unit
7.3.36	iC60L 2P-6 to 16A-curve B-25kA	unit
7.3.37	iC60L 2P-25A-curve B-25kA	unit
7.3.38	iC60L 2P-32A-curve B-20kA	unit
7.3.39	iC60L 2P-40A-curve B-20kA	unit
7.3.40	iC60L 2P-50A-curve B-15kA	unit
7.3.41	iC60L 2P-63A-curve B-15kA	unit
7.3.42	iC60L 2P-6 to 16A-curve K-25kA	unit
7.3.43	iC60L 2P-25A-curve K-25kA	unit
7.3.44	iC60L 2P-32A-curve K-20kA	unit
7.3.45	iC60L 2P-40A-curve K-20kA	unit
7.3.46	iC60L 2P-50A-curve K-15kA	unit
7.3.47	iC60L 2P-63A-curve K-15kA	unit
7.3.48	RCD iC60 VIGI 2P 25A- AC type-	unit
	30mA	
7.3.49	RCD iC60 VIGI 2P 40A- AC type- 30mA	unit
7.3.50	RCD iC60 VIGI 2P 63A- AC type- 30mA	unit
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7.3.51	RCD iC60 VIGI 2P 25A- AC type-	unit		
7.2.50	300mA			
7.3.52	RCD iC60 VIGI 2P 40A- AC type- 300mA	unit		
7.3.53	RCD iC60 VIGI 2P 63A- AC type-	unit		
	300mA			
7.3.54	iC60N RCBO 2P-10 to 16A-30mA	unit		
	type AC-15kA			
7.3.55	iC60HDC 2P-0.5 to 6A	unit		
7.3.56	iC60HDC 2P-10 to 16A	unit		
7.3.57	iC60N 3P-0.5 to 4A-curve C-50kA	unit		
7.3.58	iC60N 3P-6 to 16A-curve C-10kA	unit		
7.3.59	iC60N 3P-25A-curve C-10kA	unit		
7.3.60	iC60N 3P-32A-curve C-10kA	unit		
7.3.61	iC60N 3P-40A-curve C-10kA	unit		
7.3.62	iC60N 3P-50A-curve C-10kA	unit		
7.3.63	iC60N 3P-63A-curve C-10kA	unit		
7.3.64	iC60N 3P-10 to 16A-curve B-10kA	unit		
7.3.65	iC60N 3P-25A-curve B-10kA	unit		
7.3.66	iC60N 3P-32A-curve B-10kA	unit		
7.3.67	iC60N 3P-40A-curve B-10kA	unit		
7.3.68	iC60N 3P-50A-curve B-10kA	unit		
7.3.69	iC60N 3P-63A-curve B-10kA	unit		
7.3.70	iC60N 3P-6 to 16A-curve D-10kA	unit		
7.3.71	iC60N 3P-25A-curve D-10kA	unit		
7.3.72	iC60N 3P-32A-curve D-10kA	unit		
7.3.73	iC60N 3P-40A-curve D-10kA	unit		
7.3.74	iC60N 3P-50A-curve D-10kA	unit		
7.3.75	iC60N 3P-63A-curve D-10kA	unit		
7.3.76	iC60L 3P-0.5 to 4A-curve C-100kA	unit		
7.3.77	iC60L 3P-6 to 16A-curve C-25kA	unit		
7.3.78	iC60L 3P-25A-curve C-25kA	unit		
7.3.79	iC60L 3P-32A-curve C-20kA	unit		
7.3.80	iC60L 3P-40A-curve C-20kA	unit		
7.3.81	iC60L 3P-50A-curve C-15kA	unit		
7.3.82	iC60L 3P-63A-curve C-15kA	unit		
7.3.83	iC60L 3P-6 to 16A-curve B-25kA	unit		
7.3.84	iC60L 3P-25A-curve B-25kA	unit		
7.3.85	iC60L 3P-32A-curve B-20kA	unit		
7.3.86	iC60L 3P-40A-curve B-20kA	unit		
7.3.87	iC60L 3P-50A-curve B-15kA	unit		
7.3.88	iC60L 3P-63A-curve B-15kA	unit		
7.3.89	iC60L 3P-6 to 16A-curve K-25kA	unit		
7.3.90	iC60L 3P-25A-curve K-25kA	unit		
7.3.91	iC60L 3P-32A-curve K-20kA	unit		
7.3.92	iC60L 3P-40A-curve K-20kA	unit		
7.3.93	iC60L 3P-50A-curve K-15kA	unit		
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7.3.94	iC60L 3P-63A-curve K-15kA	unit	
7.3.95	RCD iC60 VIGI 3P 25A- AC type- 30mA	unit	
7.3.96	RCD iC60 VIGI 3P 40A- AC type- 30mA	unit	
7.3.97	RCD iC60 VIGI 3P 63A- AC type- 30mA	unit	
7.3.98	RCD iC60 VIGI 3P 25A- AC type- 300mA	unit	
7.3.99	RCD iC60 VIGI 3P 40A- AC type- 300mA	unit	
7.3.100	RCD iC60 VIGI 3P 63A- AC type- 300mA	unit	
7.3.101	iC60N 4P-0.5 to 4A-curve C-50kA	unit	
7.3.102	iC60N 4P-6 to 16A-curve C-10kA	unit	
7.3.103	iC60N 4P-25A-curve C-10kA	unit	
7.3.104	iC60N 4P-32A-curve C-10kA	unit	
7.3.105	iC60N 4P-40A-curve C-10kA	unit	
7.3.106	iC60N 4P-50A-curve C-10kA	unit	
7.3.107	iC60N 4P-63A-curve C-10kA	unit	
7.3.108	iC60N 4P-10 to 16A-curve B-10kA	unit	
7.3.109	iC60N 4P-25A-curve B-10kA	unit	
7.3.110	iC60N 4P-32A-curve B-10kA	unit	
7.3.111	iC60N 4P-40A-curve B-10kA	unit	
7.3.112	iC60N 4P-50A-curve B-10kA	unit	
7.3.113	iC60N 4P-63A-curve B-10kA	unit	
7.3.114	iC60N 4P-6 to 16A-curve D-10kA	unit	
7.3.115	iC60N 4P-25A-curve D-10kA	unit	
7.3.116	iC60N 4P-32A-curve D-10kA	unit	
7.3.117	iC60N 4P-40A-curve D-10kA	unit	
7.3.118	iC60N 4P-50A-curve D-10kA	unit	
7.3.119	iC60N 4P-63A-curve D-10kA	unit	
7.3.120	iC60L 4P-0.5 to 4A-curve C-100kA	unit	
7.3.121	iC60L 4P-6 to 16A-curve C-25kA	unit	
7.3.122	iC60L 4P-25A-curve C-25kA	unit	
7.3.123	iC60L 4P-32A-curve C-20kA	unit	
7.3.124	iC60L 4P-40A-curve C-20kA	unit	
7.3.125	iC60L 4P-50A-curve C-15kA	unit	
7.3.126	iC60L 4P-63A-curve C-15kA	unit	
7.3.127	iC60L 4P-6 to 16A-curve B-25kA	unit	
7.3.128	iC60L 4P-25A-curve B-25kA	unit	
7.3.129	iC60L 4P-32A-curve B-20kA	unit	
7.3.130	iC60L 4P-40A-curve B-20kA	unit	
7.3.131	iC60L 4P-50A-curve B-15kA	unit	
7.3.132	iC60L 4P-63A-curve B-15kA	unit	
7.3.133	iC60L 4P-6 to 16A-curve K-25kA	unit	
7.3.134	iC60L 4P-25A-curve K-25kA	unit	
7.3.135	iC60L 4P-32A-curve K-20kA	unit	



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7.3.136	iC60L 4P-40A-curve K-20kA	unit	
7.3.137	iC60L 4P-50A-curve K-15kA	unit	
7.3.138	iC60L 4P-63A-curve K-15kA	unit	
7.3.139	RCD iC60 VIGI 4P 25A- AC type-	unit	
	30mA		
7.3.140	RCD iC60 VIGI 4P 40A- AC type-	unit	
7.3.141	30mA RCD iC60 VIGI 4P 63A- AC type-	unit	
7.3.141	30mA	unit	
7.3.142	RCD iC60 VIGI 4P 25A- AC type-	unit	
	300mA		
7.3.143	RCD iC60 VIGI 4P 40A- AC type-	unit	
	300mA		
7.3.144	RCD iC60 VIGI 4P 63A- AC type-	unit	
7 2 1 4 5	300mA iC60N RCBO 4P-10 to 16A-30mA		
7.3.145	type AC-15kA	unit	
7.3.146	NG125L-2P-10 to 16A-curve C-50kA	unit	
7.3.147	NG125L-2P-25A-curve C-50kA	unit	
7.3.148	NG125L-2P-32A-curve C-50kA	unit	
7.3.149	NG125L-2P-40A-curve C-50kA	unit	
7.3.150	NG125L-2P-50A-curve C-50kA	unit	
7.3.151	NG125L-2P-63A-curve C-50kA	unit	
7.3.152	NG125L-2P-80A-curve C-50kA	unit	
7.3.153	NG125L-2P-10 to 16A-curve D-50kA	unit	
7.3.154	NG125L-2P-25A-curve D-50kA	unit	
7.3.155	NG125L-2P-32A-curve D-50kA	unit	
7.3.156	NG125L-2P-40A-curve D-50kA	unit	
7.3.157	NG125L-2P-50A-curve D-50kA	unit	
7.3.158	NG125L-2P-63A-curve D-50kA	unit	
7.3.159	NG125L-2P-80A-curve D-50kA	unit	
7.3.160	RCD NG125 VIGI 2P 63A-AC type- 30mA	unit	
7.3.161	RCD NG125 VIGI 2P 63A-AC type- 300mA	unit	
7.3.162	NG125L-3P-10 to 16A-curve C-50kA	unit	
7.3.163	NG125L-3P-25A-curve C-50kA	unit	
7.3.164	NG125L-3P-32A-curve C-50kA	unit	
7.3.165	NG125L-3P-40A-curve C-50kA	unit	
7.3.166	NG125L-3P-50A-curve C-50kA	unit	
7.3.167	NG125L-3P-63A-curve C-50kA	unit	
7.3.168	NG125L-3P-80A-curve C-50kA	unit	
7.3.169	NG125L-3P-10 to 16A-curve D-50kA	unit	
7.3.170	NG125L-3P-25A-curve D-50kA	unit	
7.3.171	NG125L-3P-32A-curve D-50kA	unit	
7.3.172	NG125L-3P-40A-curve D-50kA	unit	
7.3.173	NG125L-3P-50A-curve D-50kA	unit	
7.3.174	NG125L-3P-63A-curve D-50kA	unit	
7.3.175	NG125L-3P-80A-curve D-50kA	unit	
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7.3.176	RCD NG125 VIGI 3P 63A-AC type- 30mA	unit	
7.3.177	RCD NG125 VIGI 3P 63A-AC type- 300mA	unit	
7.3.178	RCD NG125 VIGI 3P 125A-AC type- 30mA	unit	
7.3.179	RCD NG125 VIGI 3P 125A-AC type- 300mA	unit	
7.3.180	NG125N-4P-100A-curve C-25kA	unit	
7.3.181	NG125N-4P-125A-curve C-25kA	unit	
7.3.182	NG125N-4P-100A-curve D-25kA	unit	
7.3.183	NG125N-4P-125A-curve D-25kA	unit	
7.3.184	NG125L-4P-10 to 16A-curve C-50kA	unit	
7.3.185	NG125L-4P-25A-curve C-50kA	unit	
7.3.186	NG125L-4P-32A-curve C-50kA	unit	
7.3.187	NG125L-4P-40A-curve C-50kA	unit	
7.3.188	NG125L-4P-50A-curve C-50kA	unit	
7.3.189	NG125L-4P-63A-curve C-50kA	unit	
7.3.190	NG125L-4P-80A-curve C-50kA	unit	
7.3.191	NG125L-4P-10 to 16A-curve D-50kA	unit	
7.3.192	NG125L-4P-25A-curve D-50kA	unit	
7.3.193	NG125L-4P-32A-curve D-50kA	unit	
7.3.194	NG125L-4P-40A-curve D-50kA	unit	-
7.3.195	NG125L-4P-50A-curve D-50kA	unit	
7.3.196	NG125L-4P-63A-curve D-50kA	unit	
7.3.197	NG125L-4P-80A-curve D-50kA	unit	
7.3.198	RCD NG125 VIGI 4P 63A-AC type- 30mA	unit	
7.3.199	RCD NG125 VIGI 4P 63A-AC type- 300mA	unit	
7.3.200	RCD NG125 VIGI 4P 125A-AC type- 30mA	unit	
7.3.201	RCD NG125 VIGI 4P 125A-AC type- 300mA	unit	
7.3.202	TeSys GV2-3P-0.1 to 0.16A	unit	
7.3.203	TeSys GV2-3P-0.16 to 0.25A	unit	
7.3.204	TeSys GV2-3P-0.25 to 0.40A	unit	
7.3.205	TeSys GV2-3P-0.40 to 0.63A	unit	
7.3.206	TeSys GV2-3P-0.63 to 1A	unit	
7.3.207	TeSys GV2-3P-1 to 1.6A	unit	
7.3.208	TeSys GV2-3P-1.6 to 2.5A	unit	
7.3.209	TeSys GV2-3P-2.5 to 4A	unit	
7.3.210	TeSys GV2-3P-4 to 6.3A	unit	
7.3.211	TeSys GV2-3P-6 to 10A	unit	
7.3.212	TeSys GV2-3P-9 to 14A	unit	
7.3.213	TeSys GV2-3P-13 to 18A	unit	
7.3.214	TeSys GV2-3P-17 to 23A	unit	
7.3.215	TeSys GV2-3P-20 to 25A	unit	
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7.3.216	clima su india japan ku	res russia usa	
7.3.218         NSX100N-4P-micro 2.2-40A         unit           7.3.219         NSX100N-4P-micro 2.2-100A         unit           7.3.220         NSX160N-3P-micro 2.2-100A         unit           7.3.221         NSX160N-3P-micro 2.2-160A         unit           7.3.222         NSX160N-4P-micro 2.2-160A         unit           7.3.223         NSX250N-3P-micro 2.2-160A         unit           7.3.224         NSX250N-3P-micro 2.2-250A         unit           7.3.225         NSX250N-3P-micro 2.2-250A         unit           7.3.226         NSX250N-4P-micro 2.2-250A         unit           7.3.227         NSX250N-4P-micro 2.2-250A         unit           7.3.228         over cost RCD for NSX         %           7.4         miscellaneous for circuit breaker           7.4.1         Mx tripping coil iC60 (230V)+0F         unit           7.4.2         Mx tripping coil MG125 (230V)+0F         unit           7.4.3         Mx tripping coil NSX (230V)+0F         unit           7.4.4         MN tripping coil NSX (230V)+0F         unit           7.4.5         MN tripping coil NSX (48V or 230V)         unit           7.4.5         MN tripping coil NSX (48V or 230V)         unit           7.4.7         OF/SD contact for NSX	7.3.216	NSX100N-3P-micro 2.2-40A	unit
7.3.219 NSX100N-4P-micro 2.2-100A unit 7.3.220 NSX160N-3P-micro 2.2-100A unit 7.3.221 NSX160N-3P-micro 2.2-100A unit 7.3.222 NSX160N-4P-micro 2.2-100A unit 7.3.223 NSX160N-4P-micro 2.2-100A unit 7.3.224 NSX250N-3P-micro 2.2-160A unit 7.3.225 NSX250N-3P-micro 2.2-250A unit 7.3.226 NSX250N-4P-micro 2.2-250A unit 7.3.227 NSX250N-4P-micro 2.2-250A unit 7.3.228 over cost for micrologic 5.2E % 7.3.229 over cost RCD for NSX %  7.4 miscellaneous for circuit breaker 7.4.1 Mx tripping coil iC60 (230V)+0F unit 7.4.2 Mx tripping coil NSX (230V)+0F unit 7.4.3 Mx tripping coil NSX (230V)+0F unit 7.4.4 MN tripping coil NSX (230V)+0F unit 7.4.5 MN tripping coil NSX (48V or 230V) 7.4.6 MN tripping coil NSX (48V or 230V) 7.4.7 OF/SD contact for IC60 unit 7.4.9 OF/SD contact for NSX unit 7.4.10 spreader terminal for NSX unit 7.4.11 Terminal cover for NSX or NG125 unit 7.4.9 OF/SD contact for NSX or NG125 unit 7.5.1 1Ph+N modular fuse holder including fuses (10x38mm) 7.5.2 Pmodular fuse holder including fuses (10x38mm) 7.5.3 3P modular fuse holder including fuses (10x38mm) 7.5.4 4P modular fuse holder including fuses (10x38mm) 7.5.5 1Ph+N modular fuse holder including fuses (10x38mm) 7.5.6 2P modular fuse holder including fuses (10x38mm) 7.5.7 3P modular fuse holder including fuses (14x51mm) 7.5.8 4P modular fuse holder including fuses (14x51mm) 7.5.9 1Ph+N modular fuse holder including unit fuses (14x51mm) 7.5.10 2P modular fuse holder including unit fuses (14x51mm)	7.3.217	NSX100N-3P-micro 2.2-100A	unit
7.3.220	7.3.218	NSX100N-4P-micro 2.2-40A	unit
7.3.221         NSX160N-3P-micro 2.2-160A         unit           7.3.222         NSX160N-4P-micro 2.2-100A         unit           7.3.223         NSX160N-4P-micro 2.2-160A         unit           7.3.224         NSX250N-3P-micro 2.2-160A         unit           7.3.225         NSX250N-4P-micro 2.2-250A         unit           7.3.226         NSX250N-4P-micro 2.2-250A         unit           7.3.227         NSX250N-4P-micro 2.2-250A         unit           7.3.228         over cost for micrologic 5.2E         %           7.3.229         over cost RCD for NSX         %           7.4         miscellaneous for circuit breaker           7.4.1         Mx tripping coil IC60 (230V)+OF         unit           7.4.2         Mx tripping coil NG125 (230V)+OF         unit           7.4.3         Mx tripping coil NG125 (230V)+OF         unit           7.4.4         MN tripping coil NG125 (48V or 230V)         unit           7.4.5         MN tripping coil NSX (48V or 230V)         unit           7.4.7         OF/SD contact for IC60         unit           7.4.7         OF/SD contact for NSX         unit           7.4.10         spreader terminal for NSX         unit           7.4.10         spreader terminal for NSX	7.3.219	NSX100N-4P-micro 2.2-100A	unit
7.3.222         NSX160N-4P-micro 2.2-100A         unit           7.3.223         NSX160N-4P-micro 2.2-160A         unit           7.3.224         NSX250N-3P-micro 2.2-160A         unit           7.3.225         NSX250N-4P-micro 2.2-250A         unit           7.3.226         NSX250N-4P-micro 2.2-250A         unit           7.3.227         NSX250N-4P-micro 2.2-250A         unit           7.3.228         over cost for micrologic 5.2E         %           7.3.229         over cost RCD for NSX         %           7.4         miscellaneous for circuit breaker           7.4.1         Mx tripping coil iC60 (230V)+OF         unit           7.4.2         Mx tripping coil NG125 (230V)+OF         unit           7.4.3         Mx tripping coil NSX (230V)+OF         unit           7.4.4         MN tripping coil NSX (230V)+OF         unit           7.4.5         MN tripping coil NSX (48V or 230V)         unit           7.4.6         MN tripping coil NSX (48V or 230V)         unit           7.4.7         OF/SD contact for NG125         unit           7.4.9         OF/SD contact for NSX         unit           7.4.10         spreader terminal for NSX         unit           7.5.1         1Ph+N modular fuse holder including fuses (1	7.3.220	NSX160N-3P-micro 2.2-100A	unit
7.3.222         NSX160N-4P-micro 2.2-100A         unit           7.3.223         NSX160N-4P-micro 2.2-160A         unit           7.3.224         NSX250N-3P-micro 2.2-160A         unit           7.3.225         NSX250N-4P-micro 2.2-250A         unit           7.3.226         NSX250N-4P-micro 2.2-250A         unit           7.3.227         NSX250N-4P-micro 2.2-250A         unit           7.3.228         over cost for micrologic 5.2E         %           7.3.229         over cost RCD for NSX         %           7.4         miscellaneous for circuit breaker           7.4.1         Mx tripping coil ICGO (230V)+OF         unit           7.4.2         Mx tripping coil NSX (230V)+OF         unit           7.4.2         Mx tripping coil NSX (230V)+OF         unit           7.4.3         Mx tripping coil NSX (230V)+OF         unit           7.4.4         MN tripping coil NSX (48V or 230V)         unit           7.4.5         MN tripping coil NSX (48V or 230V)         unit           7.4.7         OF/SD contact for NG125         unit           7.4.7         OF/SD contact for NSX         unit           7.4.9         OF/SD contact for NSX or NG125         unit           7.4.1         Terminal cover for NSX or NG125	7.3.221	NSX160N-3P-micro 2.2-160A	unit
7.3.223         NSX160N-4P-micro 2.2-160A         unit           7.3.224         NSX250N-3P-micro 2.2-160A         unit           7.3.225         NSX250N-3P-micro 2.2-250A         unit           7.3.226         NSX250N-4P-micro 2.2-250A         unit           7.3.227         NSX250N-4P-micro 2.2-250A         unit           7.3.228         over cost for micrologic 5.2E         %           7.3.229         over cost RCD for NSX         %           7.4         miscellaneous for circuit breaker           7.4.1         Mx tripping coil ICGO (230V)+OF         unit           7.4.2         Mx tripping coil NSX (230V)+OF         unit           7.4.3         Mx tripping coil INSX (230V)+OF         unit           7.4.4         MN tripping coil INSX (230V)+OF         unit           7.4.5         MN tripping coil NSX (48V or 230V)         unit           7.4.5         MN tripping coil NSX (48V or 230V)         unit           7.4.7         OF/SD contact for NG125         unit           7.4.9         OF/SD contact for NSX         unit           7.4.10         spreader terminal for NSX         unit           7.5.1         1Ph+N modular fuse holder including fuses (10x38mm)         unit           7.5.2         2P modular fuse hold	7.3.222		unit
7.3.224         NSX250N-3P-micro 2.2-160A         unit           7.3.225         NSX250N-3P-micro 2.2-250A         unit           7.3.226         NSX250N-4P-micro 2.2-160A         unit           7.3.227         NSX250N-4P-micro 2.2-250A         unit           7.3.228         over cost for micrologic 5.2E         %           7.3.229         over cost RCD for NSX         %           7.4         miscellaneous for circuit breaker           7.4.1         Mx tripping coil IC60 (230V)+OF         unit           7.4.2         Mx tripping coil NG125 (230V)+OF         unit           7.4.3         Mx tripping coil NSX (230V)+OF         unit           7.4.4         MN tripping coil NSX (230V)+OF         unit           7.4.5         MN tripping coil NSX (48V or 230V)         unit           7.4.5         MN tripping coil NSX (48V or 230V)         unit           7.4.6         MN tripping coil NSX (48V or 230V)         unit           7.4.7         OF/SD contact for IC60         unit           7.4.9         OF/SD contact for NSX         unit           7.4.10         spreader terminal for NSX         unit           7.5.1         1Ph+N modular fuse holder including fuses (10x38mm)         unit           7.5.2         2P modular fus	7.3.223		
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7.5.4 4P modular fuse holder including fuses (10x38mm)  7.5.5 1Ph+N modular fuse holder unit including fuses (14x51mm)  7.5.6 2P modular fuse holder including fuses (14x51mm)  7.5.7 3P modular fuse holder including fuses (14x51mm)  7.5.8 4P modular fuse holder including fuses (14x51mm)  7.5.9 1Ph+N modular fuse holder including including fuses (22x58mm)  7.5.10 2P modular fuse holder including unit	7.5.3	_	unit
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7.5.10 2P modular fuse holder including unit	7.5.9	_	unit
		1	_
TUSES (ZZXS&MM)	7.5.10		unit
, , ,		Juses (22x58mm)	

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7.5.11	3P modular fuse holder including fuses (22x58mm)	unit	
7.5.12	4P modular fuse holder including fuses (22x58mm)	unit	
7.5.13	2P fuse holder including fuses (NH format)	unit	
7.5.14	3P fuse holder including fuses (NH format)	unit	
7.5.15	4P fuse holder including fuses (NH format)	unit	
7.5.16	spare fuse 10x38mm	unit	
7.5.17	spare fuse 14x51mm	unit	
7.5.18	spare fuse 22x58mm	unit	
7.5.19	spare fuse NH	unit	
7.6	Contactor		
7.6.1	contactor 3P-25A-Aux 24 to 250V	unit	
7.6.2	contactor 3P-40A-Aux 24 to 250V	unit	
7.6.3	contactor 3P-63A-Aux 24 to 250V	unit	
7.6.4	auxiliaries block 2 contacts	unit	
7.6.5	auxiliaries block 4 contacts	unit	
7.7	Switch Disconnector		
7.7.1	iSW 2P-40A	unit	
7.7.2	iSW 2P-63A	unit	
7.7.3	iSW 4P-40A	unit	
7.7.4	iSW 4P-63A	unit	
7.7.5	iSW 4P-100A	unit	
7.7.6	iSW 4P-125A	unit	
7.7.7	OF contact for switch disconnector	unit	
7.7.8	NG125NA 3P-63A	unit	
7.7.9	NG125NA 3P-80A	unit	
7.7.10	NG125NA 3P-100A	unit	
7.7.11	NG125NA 3P-125A	unit	
7.7.12	NG125NA 4P-63A	unit	
7.7.13	NG125NA 4P-80A	unit	
7.7.14	NG125NA 4P-100A	unit	
7.7.15	NG125NA 4P-125A	unit	
7.7.16	NSX100NA 3P-100A	unit	
7.7.17	NSX160NA 3P-160A	unit	
7.7.18	NSX250NA 3P-250A	unit	
7.7.19	NSX100NA 4P-100A	unit	
7.7.20	NSX160NA 4P-160A	unit	
7.7.21	NSX250NA 4P-250A	unit	
7.7.22	Transfer switch Sirco VM1 3P 125A 22003012	unit	
7.7.23	Transfer switch Sircover 3P 250A 26003026	unit	
7.7.24	Transfer switch Sirco VM1 4P 125A 22004012	unit	

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7.7.25	Transfer switch Sircover 4P 250A 26004026	unit	
7.7.26	Transfer switch COMO CS 3P 63A 43203106	unit	
7.7.27	Transfer switch COMO CS 4P 63A 43204106	unit	
7.7.28	switch Sirco MV 3P 125A 44303012	unit	
7.7.29	switch Sirco 3P 250A 41AC3025	unit	
7.7.30	switch Sirco MV 4P 125A 44304012	unit	
7.7.31	switch Sirco 4P 250A 41AC4025	unit	
7.7.32	switch COMO 3P 63A 21153406	unit	
7.7.33	switch COMO 4P 63A 21154406	unit	
7.8	Relay		
7.8.1	RH Relay (24 to 250V)	unit	
7.8.2	Homopolar relay vigirex RH99M 48DC or 240 VAC	unit	
7.8.3	Homopolar toroid diam 50mm compatible RH99	unit	
7.8.4	Homopolar toroid diam 80mm compatible RH99	unit	
7.8.5	Homopolar toroid diam 120mm compatible RH99	unit	
7.8.6	Homopolar toroid diam 200mm compatible RH99	unit	
7.8.7	remote control switch 1P-16A	unit	
7.8.8	remote control switch 2P-16A	unit	
7.9	Surge protection Device (SPD)		
7.9.1	PRD1 12,5r type 1+2-1P+N	unit	
7.9.2	PRD1 12,5r type 1+2-3P	unit	
7.9.3	PRD1 12,5r type 1+2-3P+N	unit	
7.9.4	spare cartridge type 1+2 PRD1 12,5r	unit	
7.9.5	PRD1 25r type 1+2-1P+N	unit	
7.9.6	PRD1 25r type 1+2-3P+N	unit	
7.9.7	PRD1 25r type 1+2-3P+N	unit	
7.9.8	spare cartridge type 1 PRD1 25r	unit	
7.9.9	spare cartridge type 2 PRD1 25r	unit	
7.9.10	PRD1 Master type 1-1P+N	unit	
7.9.11	PRD1 Master type 1-3P	unit	
7.9.12	PRD1 Master type 1-3P+N	unit	
7.9.13	spare cartridge Type 1 PRD1 master	unit	
7.9.14	iPRD65r type 2-1P+N	unit	
7.9.15	iPRD65r type 2-3P+N	unit	
7.9.16	iPRD65r type 2-3P+N	unit	
7.9.17	spare cartridge type 2 iPRD65r	unit	
7.9.18	DEHNventil Type 1+2 2P FM 951205	unit	
7.9.19	DEHNventil Type 1+2 4P FM 951405	unit	
7.9.20	DEHN spare cartridge 951001	unit	
7.9.21	DEHNvenCl type 1+2 FM 961205	unit	
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7.9.22	DEHNguard Type 2 2P FM 952207	unit
7.9.23	DEHNguard Type 2 4P FM 952407	unit
7.9.24	DEHN spare cartridge 952010	unit
7.9.25	DEHNguard CI Type 2 2P FM	unit
	952178	
7.9.26	DEHNguard CI Type 2 4P FM	unit
	952406	
7.9.27	DEHN spare cartridge for	unit
	DEHNguard CI	
7.9.28	DEHN BLITZDUCTORconnect-	unit
	withdrawable-reference according	
	to the signal (TBD)	
7.9.29	spare cartridge DEHN	unit
	BLITZDUCTORconnect	
8-Equipment		

8.1 Services-Utilities 8.1.1 Legrand plexo IP55 mni-single unit switch 8.1.2 Legrand plexo IP55 mni-2 way unit switch 8.1.3 Legrand plexo IP55 mini-Push-off unit switch 8.1.4 Legrand plexo IP55 mini-socket unit 1P+N+E-16A 8.1.5 Male+Female Hypra socket IP55 unit mini-1P+N+E 16A+socle 8.1.6 Male+Female Hypra socket IP55 unit mini-3P+N+E 32A+socle 8.1.7 Legrand mosaic single switch unit 8.1.8 Legrand mosaic 2 way switch unit 8.1.9 Legrand mosaic Push-off switch unit 8.1.10 Legrand mosaic socket 1P+N+E-16A unit 8.1.11 electrical heater 1000W unit 8.1.12 electrical heater 2000W unit 8.1.13 Emergency lighting block SATI 45lm unit NFC 71800-71820 8.1.14 Ambiance lighting block SATI 400lm unit NFC 71800 8.1.15 remote controle for emergency unit block 8.1.16 Emergency stop legrand 038096 or unit 038098+labelling 8.1.17 emergency call break glass box unit 8.1.18 Lighting device THORN Aquaforce unit Pro 96630754 8.1.19 Lighting device THORN Aquaforce unit Pro 96630758 8.1.20 lighting device THORN leonie 30W unit 96630337 lighting device THORN leonie 50W 8.1.21 unit 96630338

The price includes the supply, installation and connection including the accessories (screws, ankle, holes....). The color by default is white



8.1.22	lighting device THORN leo 100W 96630253	unit	
8.1.23	over cost for infrared sensor for THORN ligthing devices	%	

#### 5.2.2 Service Duration

The maximum expected duration for this framework contract is 4 years plus one optional period of 2 year.

# 5.2.3 Prices and instruction to proceed

Prior to any execution of services (works):

- The IO shall launch a works request using JIRA application,
- The contractor shall propose a quotation based on the bill of prices provided in the frame of the contract. This quotation must be posted on JIRA
- The IO will notify its acceptance through the issuance of a signed Work Order (Template in Annex 1). Both parties must sign the Work Order a copy is posted on JIRA application\*.

The company could be requested to purchase additional material/equipment not included in the bill of prices on behalf of the IO. This clause is detailed in the Contract.

\*IO will grant the relevant JIRA access to the company.

# 6 Location for Scope of Work Execution

The works will take place on ITER electrical networks/installations; therefore, the company is likely to intervene everywhere on the ITER platform with different area coordinator (CMA, ENGAGE, IO BFO, IO COMMISSIONING)

# 7 IO Documents& IO Free issue items

No input nor free issue item is expected from IO

## 8 List of deliverables and schedule milestones

The Supplier shall provide IO with the documents and data required in the application of this technical specification, the GM3S Ref [1] and any other requirement derived from the application of the contract.

A minimum, but not limited to, list of documents is available hereafter with associated due dates:



Technical Design Family (TDF)	Generic Document Title (GTD)	Further Description	Expected date (T0+x) *
Contract management	Quality assurance plan	Mandatory	2 weeks before KOM
Contract management	Subcontractor Approval Form (SAF)	NA (because subcontracting is not authorized on this contract)	NA
Contract management	Environmental Plan (PRE)	Mandatory	2 weeks before KOM
Contract management	Health and Safety Plan (PPSPS)	Mandatory	2 weeks before KOM
Contract management	KOM Minutes	Mandatory	KOM+2 weeks
Other Manufacturing Input	Data sheets/quotation	When necessary/if requested	1 week before the works
Assembly and Installation Record or Report	Execution document (study, site survey etc)	When necessary/if requested	1 week before the works
Assembly and Installation Record or Report	As-Constructed Drawing	When necessary/if requested	2 weeks before the closure of a WO
Assembly and Installation Record or Report	Evidence-Photo	For each demand	2 days after work completion

<sup>(\*)</sup> T0 = Commencement Date of the contract; X in weeks.

Supplier is requested to prepare their document schedule based on the above and using the template available in the GM3S Ref [1] appendix II (click here to download).

# 9 Quality Assurance requirements

The Quality class under this contract is QC3, [Ref 1] GM3S section 8 applies in line with the defined Quality Class.

# 10 Safety requirements

The scope under this contract <u>does not</u> covers for PIC and/or PIA and/or PE/NPE components.

# 10.1 Nuclear class Safety

No specific nuclear class safety is required.

# 10.2 Seismic class



No specific safety requirement related to PIC and/or PIA and/or PE/NPE components apply.

# 11 Specific General Management requirements

Requirement for [Ref 1] GM3S section 6 applies completed/amended with the below specific requirements:"

-No progress report (6.1.4.2 of the GM3S) is required as the works are expected to be basic and short duration.

Simple Progress reports (excel format) can be extracted anytime from JIRA by the parties.

#### 11.1 Contract Gates

The contract gates are defined in [Ref 1] section 6.1.5, this scope of service call for the following technical gates:

- -Kick Off Meeting
- -Contract closeout

# 11.2 Work Monitoring

Works will be followed on site daily, the company and IO's work requestor must interact on site so that the works to be performed are clear and take place safely. The works will be monitored using JIRA EPD project. The request will be sent by IO (using JIRA ticket system), the company will have to manage each ticket in collaboration with IO. Each deliverable and evidence of the work completion (Execution study, as-built, photo etc.) must be uploaded in JIRA system.

# 11.3 Meeting Schedule

Works are expected to be simple; no specific periodical meeting is foreseen to monitor the progress. As stated in 11.2 works will be followed on site on daily basis. However, the company must attend to any coordination meeting linked with a given work.

# 11.4 CAD design requirements

When particular CAD activities are required, [Ref 1] GM3S section 6.2.2.2 applies.

#### 11.5 Site Data

# 11.5.1 *Site Information*

The Contractor shall be deemed to have obtained all necessary information as to risks, contingencies and other circumstances which may influence or affect the Works. To the same extent, the Contractor shall be deemed to have inspected and



examined the site, its surroundings, the above data, and other available information, and to have been satisfied as to all relevant matters.

# 11.5.2 Roads and Traffic management

When necessary, it is the responsibility of the Contractor to put in place all the necessary safety and traffic management measures, in accordance with applicable rules and regulations, to ensure that staff and vehicles retain safe passage across the ITER Site. All the required equipment etc. to create a safe environment for the Works and ITER staff shall be provided by the Contractor.

During the Works, any road shall not be blocked for more than half its width. For total closure of any roads, Works shall be performed on Saturdays only.

Roads accessing the worksite must be always kept clean. For this purpose, the Contractor shall organize road washing as often as earth is observed. Vehicles or machinery, particularly those used for earthworks and civil engineering works, must be manoeuvred safely. Any damage to surrounding structures (buildings, roads, sidewalks, walkways) must be immediately repaired by the Contractor.

#### 11.5.3 *Permit to Work*

In accordance with the relevant procedure, a permit to work (PTW) must be obtained prior to start any Works on the ITER Site. Permit to work will be created by the IO's work requestor using the software in force on ITER site. The contractor must provide all the documents requested in the permit to work procedure (PRE, PPSPS, electrical accreditation....etc). Once the permit ready and duly validated, the contractor will have to accept the permit in the permit to work software.



# ANNEX 1 Work Order template

# WORK ORDER No. XX

# Task Order No. xx ref. xxxxxxxxxx

# issued in accordance with Framework Contract No. xxxxxxxxxxx "Electrical Works and Lightning Protection"

# between the ITER Organization and xxxxxxxx

# Jira ticket reference XXXXXXXXX Task Description XXXXXXXX

#### Commitment of Work Orders under Task Order #xx

Work Order Reference	Maximum Amount of Work Order in EUR	Cumulative expenditure under Task Order #xx in EUR	Maximum amount not to be exceeded under Task Order #xx in EUR
XXXX	XXXXXX	XXXXXXX	
/	/	/	
/	/	1	
/	/	1	XXXXX
/	/	/	
/	/	/	

# Approval

IO Representative	Contractor representative
Date xxxxx	Date
Name and Signature	Name and Signature
XXXXXX	

# **EXPRESSION OF INTEREST & PIN ACKNOWLEDGEMENT**

To be returned by e-mail to: Virginie.Michel@iter.org copy Andrew.Brown@iter.org

ITER Organization / ITER Headquarters Procurement Division, Building 81/140B Route de Vinon-sur-Verdon CS 90 046 13067 St. Paul Lez Durance Cedex France

TENDER	No.	OT 70001176 – Electrical and lightning protection works (minor electrical works)- VML
DESIGNA	TION of SERVICES:	To perform execution of electrical and lightning protection works
Officer in	charge:	Virginie Michel - Procurement Division, ITER Organization
	WE ACKNOWLEDGE HA	AVING READ THE PIN NOTICE FOR THE ABOVE-
	WE INTEND TO SUBMIT	A TENDER
Are you re	egistered in Iproc (only enti	ties registered in iPROC will be invited to tender)?:
	YES	
	Please indicate your regis	tration number:
	NO, but we shall register I	pefore the indicated tender launch date

Company Name:	COMPANY STAMP
Signature:	
Name:	
Position:	
Tel:	
E-mail	
Date:	