

We **Hager Electro SAS**
BP3
67215 OBERNAI CEDEX - FRANCE

Declare that the product(s)

Designation

Add on Bloc H3-x160 & H3-x250

Type reference(s)

HBA, HBB, HBD Range

Trademark

Hager

is (are) in conformity with the relevant United Kingdom legislation:

- SI 2012/3032 Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (as amended)
 - SI 2016/1091 Electromagnetic Compatibility (EMC) Regulations 2016 (as amended)
 - SI 2016/1101 Electrical Equipment (safety) Regulations 2016 (as amended)
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Standard(s) and/or relevant document(s) to which conformity is declared

Standard number + relevant amendments together with the edition dates

EN 60947-2:2017 + A1:2020

IEC 60947-2: Ed5.1:2019

BS EN IEC 63000:2018

If applicable, mention here for radio products, the data about notified body. See RE legislation - Annex VI - point 7

This declaration of conformity is issued under the sole responsibility of the manufacturer.

On behalf of Hager Electro SAS - BP3 - 67215 OBERNAI CEDEX - FRANCE

Name of signatory

Eric Boivin

Function of signatory

Responsable Homologation / Approval Manager

Place and date of issue

Obernai, le 8/08/2022

Signature



UKCA DECLARATION OF CONFORMITY

No. UKCA 22.3176.07.22

Type references

Product Reference	Product Description
HBA125H	RCD add on x160 3P 125A ldn adj
HBA126H	RCD add on x160 4P 125A ldn adj
HBA127H	RCD add on x160 3P 125A ldn fix
HBA128H	RCD add on x160 4P 125A ldn fix
HBA160H	RCD add on x160 3P 160A ldn adj
HBA161H	RCD add on x160 4P 160A ldn adj
HBB161H	RCD add on x250 4P 160A ldn adj
HBB251H	RCD add on x250 4P 250A ldn adj
HBD401H	RCD add on h400 4P 400A ldn adj
HBD631H	RCD add on h400 4P 630A ldn adj

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Evidence (s)

Documents listed below have been used in order to establish the conformity to the essential requirements of the relevant legislation

Evidences approved by: Site:	Engineering Quality / Certification Telford
Only designated standards published on GOV.UK (https://www.gov.uk/guidance/designated-standards) are used:	Yes EN 60947-2:2017
Scope and classification fully covers the product (case 1 of Hager Group risk analysis):	No
Comments :	Risk analysis have been establish for explanation
Hager Group risk analysis: (Only if there is at least one "No", then you have to explain how you cover the essential requirements and fill the document <u>DMS034433</u> - Hager Group risk analysis)	DMS034433 followed using case 2 of Hager Group method: Risk Analysis 3453
Certificate(s) / test report(s):	Test Repoort: See table pages 4 to 9 + LB 22-0594 to cover new IEC 60947-1 Ed5.1
Mark approval(s):	No
Product documentation :	See Hager Website
Comments:	Certified to EN Standard

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Evidence (s)

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Designated Standards

Designated standard UKCA Electrical Equipment (Safety) Regulations 2016:

S.I. 2016 No. 1101	EN 60947-2:2017	Low-voltage switchgear and controlgear - Part 2: Circuit-breakers	01/01/2021	0009/21
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Designated standard UKCA Electromagnetic Compatibility Regulations 2016:

S.I. 2016 No. 1091	EN 60947-2:2017	Low-voltage switchgear and controlgear - Part 2: Circuit-breakers	01/01/2021	0007/21
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Designated standard UKCA RoHS:

S.I. 2012 No. 3033	EN IEC 63000:2018	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances	01/01/2021	0037/21
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Evidence (s)

Documents listed below have been used in order to establish the conformity to the essential requirements of the relevant legislation

Table 2 – Part 1

Elements of safety objectives	Observations/Risk	Usual Requirements in the standards	Requirement/Measure taken: <i>standard Nr + Clause Nr</i> <i>or</i> <i>internal specification + Clause Nr</i>	Relevant report Nr
1. General conditions				
(a) the essential characteristics, the recognition and observance of which will ensure that electrical equipment will be used safely and in applications for which it was made, shall be marked on the electrical equipment, or, if this is not possible, on an accompanying document;	Misuse	Scope Normative references Definitions Classification Characteristics Marking	EN 60947-2 § B.5	LB 10004
(b) the electrical equipment, together with its component parts, shall be made in such a way as to ensure that it can be safely and properly assembled and connected;	Bad assembly, bad connection	Requirements for construction	EN 60947-2 § 8.2.4 2 to 5)	LB 10004
(c) the electrical equipment shall be so designed and manufactured as to ensure that protection against the hazards set out in points 2 and 3 is assured, providing that the equipment is used in applications for which it was made and is adequately maintained.	Use outside limits	Standards conditions	N.A.	N.A.

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Table 2 – Part 2

Elements of safety objectives	Observations/Risk	Usual Requirements in the standards	Requirement/Measure taken: <i>standard Nr + Clause Nr</i> or <i>internal specification + Clause Nr</i>	Relevant report Nr
2. Protection against hazards arising from the electrical equipment				
(a) persons and domestic animals are adequately protected against the danger of physical injury or other harm which might be caused by direct or indirect contact	Direct contact	Protection against electric shock	EN 60947-2 § 8.2.3	LB 09117 LB09326 LB10011
	Deterioration of protection Protection function	Mechanical and electrical endurance Performance at short circuit currents	§ 8.3.4.1 + 8.3.5.2 + 8.3.6.2 + 8.3.6.4 + B.8.10	8.3.4.1 : LB09027 8.3.5.2 : LB09027 8.3.6.2 : NA 8.3.6.4 : NA B.8.10 : LB09028 8.3.4.1 : LB09499 8.3.5.2 : LB09499 8.3.6.2 : NA 8.3.6.4 : NA B.8.10 : LB09406 8.3.4.1 : LB10144 8.3.5.2 : LB10144 8.3.6.2 : LB10144 8.3.6.4 : LB10144 B.8.10 : LB10130
(b) temperatures, arcs or radiation which would cause a danger, are not produced;	Excess of temperature accessible parts Overheating Protection against overcurrents	Temperature rise Uninterrupted duty	EN 60947-2 § 8.3.3.6	LB 08589 LB 09305 LB 09587

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	Deterioration of protection Protection against short circuits, arcs Abnormal heating	Mechanical and electrical endurance Performance at short circuit currents Power losses	§ 8.3.4.1 + 8.3.5.2 + 8.3.6.2 + 8.3.6.4 + B.8.10	8.3.4.1 : LB09027 8.3.5.2 : LB09027 8.3.6.2 : NA 8.3.6.4 : NA B.8.10 : LB09028 8.3.4.1 : LB09499 8.3.5.2 : LB09499 8.3.6.2 : NA 8.3.6.4 : NA B.8.10 : LB09406 8.3.4.1 : LB10144 8.3.5.2 : LB10144 8.3.6.2 : LB10144 8.3.6.4 : LB10144 B.8.10 : LB10130
(c) persons, domestic animals and property are adequately protected against non-electrical dangers caused by the electrical equipment which are revealed by experience;	Electromagnetic disturbances of function Electromagnetic disturbance of other functions in the neighborhood	Electromagnetic immunity Electromagnetic emission	See table 3 NA	See table 3
(d) the insulation is suitable for foreseeable conditions.	Suitable construction Dielectric behavior	Clearance and creepage Dielectric properties and isolation capability	EN 60947-2 § 8.3.3.2 + 8.3.3.5	LB08589 LB09305 LB09587

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Evidence (s)

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Table 2 – Part 3

Elements of safety objectives	Observations/Risk	Usual Requirements in the standards	Requirement/Measure taken: <i>standard Nr + Clause Nr</i> or <i>internal specification + Clause Nr</i>	Relevant report Nr
3. Protection against hazards which may be caused by external influences on the electrical equipment				
(a) meets the expected mechanical requirements in such a way that persons, domestic animals and property are not endangered;	Shocks Rusting	Resistance to mechanical shock and impact Resistance to rusting	Taken over from EN61009 (§ 8.8 + 9.13)	LB09118 LB09575 LB10328
(b) is resistant to non-mechanical influences in expected environmental conditions, in such a way that persons, domestic animals and property are not endangered;	Ambient temperature No fire propagation	Resistance to heat Resistance to abnormal heat and to fire	EN 60947-2 § 8.2.1.1.1 + 8.2.1.1.2	MR10168
(c) does not endanger persons, domestic animals and property in foreseeable conditions of overload.	Overcurrents Endurance Short circuits	Automatic operation Mechanical and electrical endurance Performance at short circuit currents	EN 60947-2 § 8.3.3.1.2 (rapport disj) + 8.3.3.1.3	8.3.3.1.2 : HOM08170 8.3.3.1.3 : LB08589 8.3.3.1.2 : HOM09248 8.3.3.1.3 : LB09305 LB09587

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Evidence (s)

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Table 3 – Part 1

Elements of safety objectives	Observations/Risk	Usual Requirements in the standards	Requirement/Measure taken: <i>standard Nr + Clause Nr or internal specification + Clause Nr</i>	Relevant report Nr
1. Immunity				
Electrostatic discharges (EN 61000-4-2)	Misfunctionning due to static electricity discharges, from operators directly or from personnel to adjacent objects.	Immunity tests related to static electricity discharges	EN 60947 § B.8.12.1.2	LB08746 LB09306 LB09586
Radiated fields (EN 61000-4-3)	Misfunctionning due to radiated, radio-frequency electromagnetic fields.	Immunity tests related to the protection against RF electromagnetic fields from any source.	EN 60947 § B.8.12.1.3	MD 09090502 LB220594
Fast transients (EN 61000-4-4)	Misfunctionning due to electrical fast transient/bursts on supply, signal, control and earth ports	Immunity tests related to fast transient/bursts	EN 60947 § B.8.12.1.4	LB08746 LB09306 LB09586
Shock waves (EN 61000-4-5)	Misfunctionning due to unidirectional surges caused by overvoltages from switching and lightning transients.	Immunity tests related to surges	EN 60947 § B.8.12.1.5	LB08746 LB09306 LB09586 LB220594
Voltage dips and Short Interruptions (EN 61000-4-11)	Misfunctionning due to voltage dips, short interruptions and voltage variations	Immunity tests related to voltage dips, short interruptions and voltage variations		
RF conducted interference (EN 61000-4-6)	Misfunctionning due to common mode disturbances to power supply, control, signal and communication ports.	Immunity tests related to RF conducted interference	EN 60947 § B.8.12.1.6	MD 09090502 LB08746 LB09306 LB09586