

Certificate of Conformity

Certificate Number

No. 2122/0541-CER

Issued to:

Certificate Holder: SCHNEIDER ELECTRIC INDUSTRIES SAS
35, rue Joseph Monier,
92500 RUEIL MALMAISON (France)



It is certified that the products:

Product	Cooling units (Side cooling units and Roof cooling units)			
Families	NSYCU...DG	NSYCUX...DG	NSYCUHD...DG	NSYCU...RDG
Trademark	SCHNEIDER ELECTRIC			
Models tested	NSYCUHD1K62P4DG		NSYCU2KRDG	
	(See derived models on pages 3 and 4)			
Technical Data	380-415 V 2~ 50 Hz; 2,8 A; Class I; IP24		220-240 V ~ 50 Hz; 6,4 A; Class I; IP24	

was tested and found in conformity with the requirements established in the following Standards:

- IEC 60335-2-40: 2018 (Ed.6) *in conjunction with:*
- IEC 60335-1: 2010 incl.Corr.1:2010, Corr.2:2011 + AMD1:2013 + AMD2:2016

*In conjunction with EU Group Differences Relatives to the Directive 2006/42/EC according to:
EN 60335-2-40:2003 (incl. Corr.:2006) + A11:2004 + A12:2005 + A1:2006 + A2:2009 + A13:2012 (incl. Corr.:2013)
EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2:2019 + A15:2021*

This certificate is based upon the test results of the test reports below detailed and it is only valid when the product is manufactured in accordance with the tested sample. This certificate does not imply assessment of the production of the product and does not permit the use of a SGS mark of conformity.

SAFETY Test Reports References: 2122/0541 & 2122/0542

Madrid, 3rd July 2023

Daniel Arranz Muñiz
Certification Manager



Tests performed (name of test and test clause):

CLAUSE	REQUIREMENT	VERDICT
7	Marking and Instructions	Pass
8	Protection against access to live parts	Pass
9	Starting of motor-operated appliances	Not apply
10	Power Input and Current	Pass
11	Heating	Pass
13	Leakage current and electric strength at operating temperature	Pass
14	Transient overvoltages	Not apply
15	Moisture resistance	Pass
16	Leakage current and electric strength	Pass
17	Overload protection of transformers and associated circuits	Pass
18	Endurance	Not apply
19	Abnormal operation	Pass
20	Stability and mechanical hazards	Pass
21	Mechanical Strength	Pass
22	Construction	Pass
23	Internal Wiring	Pass
24	Components	Pass
25	Supply connection and external flexible cords	Pass
26	Terminals for external conductors	Pass
27	Provision for earthing	Pass
28	Screws and connections	Pass
29	Clearances, creepage distances and solid insulation	Pass
30	Resistance to heat and fire	Pass
31	Resistance to rusting	Pass
32	Radiation, toxicity and similar hazards	Pass



Additional information: This certificate covers the followings equipments:
Standard references:

	Cooling capacity (1)	Supply voltage	Max current	Starting current	Electric power	Max pressure	Dimensions (mm)
Side Mounting							
NSYCU350DG NSYCUX350DG NSYCUHD350DG (2)	350 / 186 W	220 - 240V 50Hz	1.4 A	3.8 A	240 / 270 W	2.8 MPa	460 x 290 x 190
NSYCU600DG NSYCUX600DG NSYCUHD600DG (2)	650 / 500 W	220 - 240V 50Hz	2.3 A	6 A	350 / 410 W	2.8 MPa	460 x 290 x 190
NSYCU800DG NSYCUHD800DG (2)	900 / 700 W	220 - 240V 50Hz	3 A	6 A	480 / 530 W	2.8 MPa	780 x 345 x 215
NSYCU8002P4DG	900 / 700 W	380 - 415V 2P 50Hz	3 A	4 A	500 / 530 W	2.8 MPa	780 x 345 x 215
NSYCU1KDG NSYCUX1KDG NSYCUHD1KDG (2)	1000 / 870 W	220 - 240V 50Hz	3 A	6 A	480 / 530 W	2.8 MPa	780 x 345 x 215
NSYCU1K2P4DG NSYCUX1K2P4DG NSYCUHD1K2P4DG (2)	1000 / 870 W	380 - 415V 2P 50Hz	2 A	4 A	480 / 530 W	2.8 MPa	780 x 345 x 215
NSYCU1K2DG	1200 / 1050 W	220 - 240V 50Hz	6 A	16 A	700 / 790 W	2.8 MPa	1000 x 405 x 225
NSYCU1K22P4DG	1200 / 1050 W	380 - 415V 2P 50Hz	2.8 A	8 A	700 / 790 W	2.8 MPa	1000 x 405 x 225
NSYCU1K6DG NSYCUX1K6DG NSYCUHD1K6DG (2)	1650 / 1400 W	220 - 240V 50Hz	6 A	16 A	770 / 880 W	2.8 MPa	1000 x 405 x 225
NSYCU1K62P4DG NSYCUHD1K62P4DG (2)	1650 / 1400 W	380 - 415V 2P 50Hz	2.8 A	8 A	770 / 880 W	2.8 MPa	1000 x 405 x 225
NSYCU2KDG	2000 / 1900 W	220 - 240V 50Hz	7.5 A	22 A	900 / 1100 W	2.8 MPa	1000 x 405 x 225
NSYCU2K3P4DG NSYCUX2K3P4DG NSYCUHD2K3P4DG (2)	2000 / 1900 W	380 - 415V 3P 50Hz	2.5 A	13 A	900 / 1100 W	2.8 MPa	1000 x 405 x 225
NSYCU3K2DG	3200 / 2600 W	220 - 240V 50Hz	9 A	30 A	1200 / 1400 W	3.2 MPa	1300 x 490 x 250
NSYCU3K23P4DG	3200 / 2600 W	380 - 415V 3P 50Hz	3.5 A	20 A	1200 / 1400 W	3.2 MPa	1300 x 490 x 250
NSYCU4K3P4DG	4000 / 3200 W	380 - 415V 3P 50Hz	5 A	15 A	1700 / 2800 W	3.2 MPa	1300 x 490 x 250
Roof Mounting							
NSYCU600RDG	650 / 580 W	220 - 240V 50Hz	2.2 A	6 A	340 / 390 W	2.8 MPa	368 x 400 x 325
NSYCU800RDG	850 / 600 W	220 - 240V 50Hz	3 A	6 A	490 / 550 W	2.8 MPa	412 x 595 x 395
NSYCU8002P4RDG	850 / 600 W	380 - 415V 2P 50Hz	1.9 A	4 A	530 / 580 W	2.8 MPa	412 x 595 x 395
NSYCU1K2RDG	1250 / 800 W	220 - 240V 50Hz	4.3 A	16 A	650 / 700 W	3.2 MPa	412 x 595 x 395
NSYCU1K22P4RDG	1250 / 800 W	380 - 415V 2P 50Hz	2.2 A	8 A	700 / 750 W	3.2 MPa	412 x 595 x 395
NSYCU1K5RDG	1550 / 1200 W	220 - 240V 50Hz	6.1 A	16 A	700 / 800 W	3.2 MPa	412 x 595 x 395
NSYCU1K52P4RDG	1550 / 1200 W	380 - 415V 2P 50Hz	3 A	8 A	760 / 860 W	3.2 MPa	412 x 595 x 395
NSYCU2KRDG	2100 / 1600 W	220 - 240V 50Hz	6.4 A	22 A	870 / 1030 W	3.2 MPa	435 x 595 x 475
NSYCU2K3P4RDG	2100 / 1600 W	380 - 415V 3P 50Hz	2.4 A	13 A	840 / 1010 W	3.2 MPa	435 x 595 x 475
NSYCU3K3P4RDG	3200 / 2640 W	380 - 415V 3P 50Hz	3.2 A	20 A	1170 / 1400 W	3.2 MPa	456 x 795 x 575
NSYCU4K3P4RDG	4000 / 3300 W	380 - 415V 3P 50Hz	4.1 A	28 A	1480 / 1770 W	3.2 MPa	456 x 795 x 575

(1) L35-L35 EN14511 / L35-L50

(2) NSYCUHDxxx DG are suitable for outdoor use.

Custom references:

- NSYCUX ... DG and NSYCUX...RDG additional to previous standard references.
- NSYCUHD...DG additional to previous standard references.
- References with 2 additional alphanumeric digits at the end (ZZ) for non-safety critical changes such as powder paint of different color, Stainless steel 316, bare or coated aluminum.

See tests reports for additional information.



Product details:

Cooling units for exclusive use to dissipate heat from any electrical panel in order to protect temperature-sensitive components in an industrial environment with non-explosive atmospheres and non-conductive dusts. The cooling units work on the basis of a cooling circuit consisting of four main components: compressor, evaporator, condenser, and expansion device. The circuit is hermetically sealed, and a refrigerant (R134a) circulates inside it.

Side mounting

The cooling units are intended for assembly to the side of industrial control cabinets. Three optional mounting positions:



Cooling capacity (L35-L35 EN14511) depending on the model:
350W, 650W, 900W, 1000W, 1200W, 1650W, 2000W, 3200W, 4000W.

NSYCU ... DG	Electro-galvanized steel, powder coated RAL7035. Indoor. IP55/IP24 (Internal/External).
NSYCUX...DG	Stainless steel 304, unpainted. Indoor. IP55/IP24 (Internal/External).
NSYCUHD...DG	Electro-galvanized steel, outdoor powder coated RAL7035, controller on the internal side, compressor heater. Surface mount only. Outdoor. IP55/IP24 (Internal/External).

Roof mounting

The cooling units are intended for assembly on top of industrial control cabinets.



Cooling capacity (L35-L35 EN14511) depending on the model:
650W, 850W, 1250W, 1550W, 2100W, 3200W, 4000W.

NSYCU ... RDG	Electro-galvanized steel, powder coated RAL7035. Indoor. IP54/IP24 (Internal/external).
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